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Done

INTRODUCTION

The Commercial Fisheries Division Office, Alaska Department of Fish and Game, Cordova Area, functions in a service and management capacity for the fisheries of an area approximately 38,000 square miles. The Cordova Area comprises all of the drainages in Alaska from Cape Suckling to Cape Fairfield including Controller Bay, Prince William Sound, Copper River and several smaller rivers entering the Copper River delta and the Gulf of Alaska.

This management unit provides services to the fishermen and citizens of the towns of Cordova, Valdez and Whittier and the Indian villages of Ellamar and Tatitlek located on Prince William Sound. In addition, services are provided to the inland communities of the upper Copper River, including Chitina, Glennallen, McCarthy, Copper Center, Gulkana, Gakona, Paxson and others.

The Cordova Area has one of the most varied commercial fisheries in Alaska. Major fisheries of great value include five species of salmon, razor clams and Dungeness crab. Minor species of importance presently harvested include king crab, shrimp, herring, cockles and some bottom fish.

The fishery included, in 1964, 3 shore based salmon canneries, one floating salmon cannery, one salmon custom packing operation, one salmon cold storage operation, and, in addition, 3 operators transported fresh frozen and brine salmon out of the area for processing. Two operators shipped frozen salmon to Seattle, Washington via refrigerated trucks. Eight Japanese freezer ships represented by two companies took salmon in Prince William Sound in 1964. Other operations included 3 salmon salters, 8 shellfish (clam and crab) processors and 3 miscellaneous (halibut, shrimp, etc.) fish processors, (Table 2).

The economies of the communities of Prince William Sound depend almost entirely on the commercial fishery. A large share of the tourist attraction to Valdez and Cordova is based on sport fishing activities for salmon and related salt water fishing. Management of the commercial fisheries resources is directly related to sport fishing for these species.

This statistical report summarizes historical data and provides a detailed compilation of the 1964 fishery. The primary value of the report has been demonstrated as a guide and reference for management purposes.

The following pages contain detailed statistics and brief, descriptive notes on the fisheries.

The fishery progressed satisfactorily during the season. However, several unusual factors occurred which influenced the 1964 salmon harvest to some extent.

First was the March 27 earthquake ^{1/} which caused widespread damage to private property throughout the Prince William Sound area and caused physical changes in the topography of the land. The land mass in the Bering River and Copper River delta areas was uplifted approximately 6½ feet which shallowed waterways and made boat travel difficult. In addition, changed tide levels caused changes in salmon migrations and schooling and maturing areas. Changes were made in closed fishing waters because tide levels were farther seaward after the land rise. Moving the closed water markers seaward caused a loss of some traditional fishing grounds and some fishermen were forced to learn new fishing areas. The fishing fleet had less water to fish inside the sheltered sand islands and gear became more concentrated or was forced to move to outside waters.

Fortunately for the drift gill net fishermen, the general weather conditions were excellent during the red salmon season and little or no fishing time was lost. The catch per unit of effort resulting was the highest for several years.

Because of a combination of factors, including the unusually good weather, a small red salmon spawning escapement occurred in most areas. Several adjustments were made in fishing boundaries during the season to improve the escapement of salmon to spawning areas.

^{1/} For further details refer to Informational Leaflet 43 and to the "Preliminary Evaluation of the March 27 Earthquake and Seismic Waves on Fishery Resources", Alaska Department of Fish and Game.

The most spectacular changes associated with the earthquake occurred in Prince William Sound. Montague Island was raised about 33 feet on the south end exposing many miles of new beach area. Roughly, the area south of a line from Port Fidalgo to Port Nellie Juan is in the uplift area with a land rise ranging from about 3 to 33 feet. Northcentral and northeastern Prince William Sound changed slightly and the northwest corner subsided about 2 to 6 feet.

Briefly, the earthquake caused a multitude of physical changes that may influence the Prince William Sound fisheries for many years. Some of the effects have been described in earlier reports. During the 1964 purse seine salmon fishery the fishermen found it necessary to relearn the fishing grounds, the obstacles, salmon migratory routes and maturing areas. Management found it necessary to re-mark almost all of the closed water areas. Some spawning area was lost and some gained. A measured 5 per cent loss of young pink salmon in the gravel of the streams was lost 1/. Large losses occurred to hardshell clams and clam habitat. Some fishery processing plants were lost and others damaged and large losses occurred to fishing boats, gear and related equipment.

Of probably historical significance during the 1964 season was the invitation to foreign Japanese processors to purchase Prince William Sound purse seine caught salmon. The invitation to the Japanese resulted from the inability of local processors and fishermen to reach an agreement on fish prices. As indicated earlier eight Japanese freezer ships entered Prince William Sound and purchased salmon directly from the fisherman. One significant factor to the management of the pink and chum salmon fishery was the policy of the Japanese to purchase only good quality

1/ Norenberg and Ossiander, Informational Leaflet 43.

salmon. This policy resulted in a relaxing of management controls resulting in longer fishing time. The purchase of only good quality salmon reduced the chances of losing maturing salmon needed for spawning purposes.

In addition to the Japanese processors one large plant, Parks Canning Company, operated a custom canning operation for about twenty fishermen. The floating cannery "Eshamy" operated with about nine fishermen and the floater "Kayak" custom canned for two fishermen (Table 2).

The purse seine fishery produced a catch of 4,779,647 salmon of which 4,189,505 were pinks which compares favorably with the past several years, (Table 20). The catch was down from the past two years.

A large and fairly well distributed salmon spawning escapement was obtained in Prince William Sound streams, (Tables 28a to 31). A larger harvest could have been allowed in some areas but the limited daily capacity prevented full utilization of some segments of the run. Fishing was allowed on a 7 day per week basis to harvest the salmon runs to the fullest extent and to help maintain the quality of the catch.

RESEARCH COMMITTEES

The commercial fisheries of the Cordova area were generally successful and profitable to most fishermen in 1964. This to some extent offset the personal disaster suffered by many individuals during the March 27 earthquake. Most fishermen suffering loss of boats and equipment were able to obtain aid and low cost loans for replacements in time to participate in the 1964 salmon fishery.

Fishing pressure in the Copper River drift gill net fishery was below that of recent years and the catch was up which resulted in a good season for the average fisherman, (Table 1). Fishermen caught 699,299 red salmon, 12,743 king salmon, 548 pinks and 62 chums during the red salmon season for an average gross income of \$4,443.80. During the fall season, 242,417 coho salmon were taken for an average gross income per fishermen of \$2,800.65.

The drift gill net fishery on the Bering River delta was successful for the approximately 29 fishermen operating in that area. A total catch of 16,911 red salmon, 47 king salmon and 77,360 coho salmon was taken for a gross income of \$4,995.64 per fisherman.

Purse seine fishermen participating in the fishery decreased from the past two seasons and even though the total harvest was down the catch per boat in 1964 is the largest for the past 5-year period (Table 1). Approximately 154 purse seine fishermen caught 4,189,505 pinks, 521,711 chums, 37,517 reds, and 30,914 coho. The average gross income of \$3,609.77 per fishermen is below 1962 which is due to a change in the price of salmon.

The average gross income of the drift gill net fishermen fishing the Coghill district was \$1,158.59. The average is down from 1963 and the second highest average of the four year period.

Thirty-three vessels participated in the crab fishery in 1964. Of these, 19 were primarily dependent on crab fishing, 10 fished before or after the salmon season and the other 4 operated only a week or two. A total of \$455,274.54 worth of crabs were sold to the cannery, of which \$1,679.28 was king crab and \$453,595.26 dungeness crab.

The average monetary return, per vessel, for full time crab fishermen was \$22,319.89, for part time crabbers, \$2,989.80 and for incidental crabbers, \$324.62. The average share for 51 fishermen from 33 vessels was \$5,419.94. This figure is about \$1,000.00 less than the 1963 average of \$6,420.74.

Sixty-nine razor clam diggers sold 89,275 pounds for bait at 20 cents per pound. The average return per digger was \$258.77. Most of the clam diggers participated in other fisheries and only dig in the spring before the opening of the salmon season or during periods closed to salmon fishing.

Done

SALMON AND RAZOR CLAM FISHING SEASONS

Copper River and Bering River Districts:

The drift gill net fishing season opened May 14 as published in the 1964 regulations and closed by Emergency Order No. 13 at 6:00 a.m. on September 19. The weekly fishing period allowed salmon to be taken from 6:00 a.m., Monday to 6:00 a.m., Wednesday and from 6:00 p.m. Thursday to 6:00 a.m., Saturday, prior to August 7. After August 7, it was legal to fish from 6:00 a.m., Monday to 6:00 a.m., Saturday.

In an effort to obtain a proper spawning escapement and to allow for a maximum harvest, the following emergency orders were issued:

EMERGENCY ORDER No. 1, May 11, 1964:

Section 112.21 Closed waters, shall be amended as follows:

(a) Copper River district: Prior to August 7 and after September 20, within a line bounded by markers located approximately two miles shoreward of the ocean bars and at all times within sloughs. Boswell Bay is closed to all commercial salmon fishing at all times.

Beginning at 6:00 p.m. on May 14 and continuing until changed by emergency order.

EMERGENCY ORDER No. 2, June 9, 1964:

Section 112.21 Closed waters, shall be amended as follows:

(b) Bering River district: From a point approximately halfway between Point Hey and Strawberry Point to a point on the north end of Kanak Island and thence from the southermost tip of Kanak Island to the westernmost point on Okalee Spit.

Effective at 6:00 a.m. on June 10 and continuing until changed by emergency order.

EMERGENCY ORDER No. 10, August 15, 1964:

Section 112.21 Closed waters, shall be amended as follows:

(a) Copper River district: Within a line bounded by markers located approximately two miles shoreward of the ocean bars and at all times within sloughs.

(b) Bering River district: Within a line from Point Hey to the west end of Okalee Spit.

Effective August 17, 1964 at 6:00 a.m.

EMERGENCY ORDER No. 12, August 28, 1964:

Section 112.21 Closed waters, shall be amended as follows:

(b) Bering River district: Within a line from Point Hey to the northeast point of Kanak Island and thence from the eastermost point on Kanak Island to the outer point on Cape Suckling.

Effective August 28, 1964, at 9:00 a.m.

EMERGENCY ORDER No. 13, September 16, 1964:

Section 112.05 Open fishing season, salmon, shall be amended as follows:

The salmon drift gill net fishing season shall close at 6:00 a.m. September 19, 1964.

Effective September 19, 1964, at 6:00 a.m.

Prince William Sound (General Districts):

The purse seine season opened as scheduled on July 13 and closed by Emergency Order No. 11 at 6:00 a.m., Friday, August 21. Fishing time was from 6:00 a.m., Monday to 6:00 a.m., Saturday, 24 hours per day, as allowed in the published regulations, (Table 51).

During the season, several emergency orders were promulgated to allow for an increase in harvest and an orderly fishery. The emergency orders were as follows:

EMERGENCY ORDER No. 3, July 8, 1964:

Section 111.21 Closed waters, shall be amended as follows:

(aa) Montague Island:

(4) Port Chalmers: From 60° 14' 12" N. lat., 147° 14' 6" W. long., to 60° 15' 24" N. lat., 147° 12' 9" W. long.

EMERGENCY ORDER No. 4, July 23, 1964:

Section 111.06 (b) Weekly fishing period, shall be amended to allow purse seine fishing from 6:00 a.m., Saturday, July 25, to 6:00 a.m., Monday, July 27.

EMERGENCY ORDER No. 5, July 28, 1964:

Section 111.21 Closed waters, shall be amended as follows:

(v) (2) Hawkins Cutoff and Orca Inlet: South of a line at 60° 27' 30" N. lat., and west of a line at 145° 50' W. long.

Effective July 29 at 6:00 a.m.

EMERGENCY ORDER No. 6, July 31, 1964:

Section 111.06 Weekly fishing period, shall be amended as follows:

Salmon may be taken from 6:00 a.m., Saturday, August 1, to 6:00 a.m., Monday, August 3, in the Southwestern and Montague districts and in the waters of the Southeastern district between the light on Johnstone Point and the light on Cape Hinchinbrook.

Effective August 1, 1964 at 6:00 a.m.

EMERGENCY ORDER No. 8, August 14, 1964:

Section 111.05 Open fishing season, salmon, shall be amended as follows:

(c) All other districts: The salmon purse seine fishing season shall close at 6:00 a.m., August 15, 1964 until further notice.

Effective August 15, 1964 at 6:00 a.m.

EMERGENCY ORDER No. 9, August 14, 1964:

Section 111.05 Open fishing season, salmon, shall be amended as follows:

(c) Beginning at 6:00 a.m., Sunday, August 16, 1964, salmon may be taken by purse seine in the following areas:

- (1) Northern district.
- (2) Eastern district, north of 60° 54' N. lat., and in Sheep Bay between Gravina Point and Sheep Point.
- (3) Southeastern district, in waters between Johnstone Point and Cape Hinchinbrook.

Effective August 16, 1964 at 6:00 a.m. until changed by emergency order.

EMERGENCY ORDER No. 11, August 19, 1964:

Section 111.05 Open fishing season, salmon, shall be amended as follows:

(c) The salmon purse seine fishing season shall close at 6:00 a.m. Friday, August 21, 1964.

Effective August 21, 1964 at 6:00 a.m.

Eshamy District (Prince William Sound):

The 1964 regulations did not provide for an open fishing season in the Eshamy district. A better than average spawning escapement of red salmon was obtained as shown in Table 32.

Coghill and Unakwik Districts (Prince William Sound):

The fishing season opened to both drift gill net and purse seine fishing in the Coghill and Unakwik districts at 6:00 a.m., June 18 and closed to drift gill net fishing on July 14. Fishing time was from 5:00 a.m., Monday to 5:00 a.m., Saturday. The purse seine fishing continued from July 14 to the end of the season in accordance with the general regulations on purse seines.

RAZOR CLAM SEASON:

The season for razor clams for several years has been from August 16, to June 30. For the past few years the harvest has been small due to the major processor not operating. Because of the small harvest, a limited summer season was allowed in 1963 and 1964. The following emergency order was issued:

EMERGENCY ORDER No. 7, August 3, 1964:

Sections 111.61 and 112.61 Open fishing season, razor clams, shall be amended as follows:

Razor clams may be taken from 12:00 noon August 3 to June 30.
Effective August 3, 1964 at 12:00 noon.

Done rby

TABLE 1. Average Salmon Catch and Catch Value Per Fisherman

Year	Average Value Per Fisherman	Average Catch					District
		King	Red	Coho	Pink	Chum	
1960	\$1397.04		162	78	8460	1764	Prince William Sound 1/
1961	2835.24		4	20	21318	1951	
1962	4221.40		87	58	26945	3464	
1963	2630.81		141	110	18679	3321	
1964 1965	3609.77 2214.92	1* 4	251 545	212 48	29608 14,396	3791 1527	
1960		Not a separate district this year.					Coghill- UNAKNIK
1961	1035.31		518	1	401	96	
1962	461.18		243	1*	39	84	
1963	1403.21		707	1*	112	219	
1964 1965	1158.59 4765.83	1* 4	573 1218	1* 4	102 8402	80 4780	
1960		C L O S E D					Eshamy
1961	5507.00		1888	47	3982	883	
1962	4474.74		954	156	3054	1596	
1963		C L O S E D					
1964 1965	890.73 2765.83		C L O S E D 573	2.5	12	14	
1960	4152.31	41	1964	897	1	1	Copper River
1961	4306.68	27	1944	998	5	1*	
1962	6118.09	37	2364	1658	4	1	
1963	4607.38	30	1832	1170	3	1*	
1964 1965	7244.45 6393.78	56 50	3988 3397	1636 577	2	1*	
1960	2684.29	1	687	1451			Bering River
1961	4763.50	1*	1824	1620			
1962	6651.95	6	1477	3206			
1963	3579.40	2	464	1969			
1964 1965	4295.64 3824.34	2 -	727 1257	2224 1344			

* Less than one fish.

1/ Catch is average catch per boat. Value per fisherman based on an average of 3 fishermen per boat (one share to the boat).

Done

*Jessette - type from man to operate
& eliminate ones who did not operate*

AREA

TABLE 2. Fishery Operators, Cordova District, 1964

<u>Name, Executive, Location Address, etc.</u>	<u>Lines of Machinery</u>	<u>Products Packed</u>
James Barclay 1361 Cedar Street Marysville, Washington	Cured salmon aboard fishing boat	Salmon
Big Point Seafood Company Karl E. C. Bradlee, Owner Location: Big Point Cordova, Alaska (small 1 man operation)	One $\frac{1}{2}$ " flat	Razor clams
C. O. Buck Canning Company C. O. Buck, Owner Location: Boswell Bay via Cordova, Alaska (small 1 man operation)	One 2"	Salmon
Channel Packing Company Lea S. Buchanan, Supt. Location: Big Point Cordova, Alaska	One $\frac{1}{2}$ " flats	Salmon Razor clams
Walter Clark Location: Cordova, Alaska Box 112 Cordova, Alaska	Fish Buyer "Amigo" - boat	Salmon
Copper River Co-op Co., Inc. Wm J. Clemence, President Location: Deep Bay Box 139, Cordova, Alaska Seattle address, 559 Coleman Bldg.	One $\frac{1}{2}$ " flats	Salmon
Engstrom Brothers Clarence Moy, Supt. Location: Bering River Juneau, Alaska	Cold Storage	Salmon
Foss Fish Company Tom Jatzeck, Supt. Location: Copper River Flats Box 520, Cordova, Alaska	Fresh Market	Salmon Dungeness crab
Glacier Packing Company Percy R. Conrad, Owner Location: Big Point Box 176, Cordova, Alaska	One $\frac{1}{2}$ " flats	Salmon Razor clams

Thomas D. Galbraith 713 $\frac{1}{2}$ East Seventh Anchorage, Alaska	Fish Buyer "Anna Marie" - boat	Salmon
Kayak Packing Company Jack R. Most, Supt. Location: Figot Bay 1121 Fairview North Seattle, Washington	One 1 $\frac{1}{2}$ " talls	Salmon
Mitsubishi International Corp. E. K. Natori, Supt. Location: Prince William Sound 810 3rd Ave. (Central Bldg.) Seattle, Washington	Freezer Ships	Salmon
Ocean Harvest Packing Company Jack de Ville, Supt. Location: Cordova, Ball Park Area Box 178, Cordova, Alaska	One 1 $\frac{1}{2}$ " flats	Salmon Razor clams
Parks Canning Company Justin F. Strom, Supt. Location: Cordova, Ocean Dock 309 Coleman Building Seattle, Washington	Two 1 $\frac{1}{2}$ " & One 1 $\frac{1}{2}$ " flats	Salmon
Darrell G. Phillips Location: Cordova, Alaska Box 152, Cordova, Alaska	Fresh Market	Shrimp
Point Chehalis Packers James A. Poor, Supt. Location: Cordova, City Dock Westport, Washington	One 1 $\frac{1}{2}$ " flats	Salmon - frozen & canned. Dungeness & King Crab - frozen & canned. Razor clams
Roy Stritmatter Location: Cordova Cordova, Alaska	Fresh Market	Dungeness crab Salmon, Halibut Clams, 1 Sturgeon
Al Weathers Location: Cordova, Alaska Box 837, Cordova, Alaska	Fish Buyer "Raemi" - Boat	Salmon
Western Alaska Enterprises, Inc. Jake I. Okamoto, Supt. Location: Prince William Sound 211 Crawford Bldg. Anchorage, Alaska	Freezer Ships	Salmon

PRICES OF FISH AND SHELLFISH

Salmon price negotiations between fishermen and major canners broke down with no settlement of prices in 1964. The failure to reach an agreement resulted in the invitation to Japanese processors who accepted a contract with a price per pound as follows: reds, 0.27; kings, 0.23; cohos, 0.15; chums, 0.0875; and, pinks, 0.105. These were the prevailing prices paid throughout the season for salmon in the round delivered to tenders on the fishing grounds.

The price paid per pound for red salmon was increased three cents over 1963 prices. Prices of other salmon species remained the same as 1963 (Table 3).

Razor clams were sold primarily for bait and brought 25 cents per pound field weight delivered to the cannery until March 15, when the price was dropped to 20 cents (Table 4).

Dungeness crab prices in January started at 12 cents per pound whole weight delivered at Point Chehalis Packers plant. Price negotiations continued off and on through February and about March 15 a settlement was reached for 14 cents per pound. The 14 cents rate remained in effect until September when it was reduced again to 12 cents, where the price remained for the balance of the year (Table 4).

A small shrimp harvest of 2,124 pounds was sold locally in Cordova for \$1.25 to \$1.50 per pound with the heads removed.

1965

TABLE 3. Summary of Prices Paid for Salmon, 1952-1964*

Year	Red	King	Coho	Chum	Pink
1952	\$1.15 ea.	\$4.15 ea.	\$1.05 ea.	\$0.57 ea.	\$0.415 ea.
1953	1.25	4.15	1.05	0.57	0.415
1954	1.25	4.15	.90	---	---
1955	1.25	4.15	1.05	0.57	0.415
1956	1.35	4.15	1.10	0.60	0.45
1957	1.39	4.15	1.10	0.635	0.45
1958	1.39	0.21/lb.	1.10	0.635	0.45
1959	1.40	0.22	1.10	0.635	0.45
1960	1.47	0.23	1.15	0.68	0.48
1961	1.50	0.23	1.25 C.R. 1.15 P.W.S.	0.68	0.48
1962	1.55	0.23	1.35 C.R. 1.25 P.W.S.	0.76	0.52
1963 1963	0.24/lb.	0.23	0.15/lb.	0.0875/lb.	0.105/lb.
1964 1964	0.27	0.23	0.15	0.0875	0.105
1965 1965	0.27	0.23	0.15	0.0875 0.095	0.0984 0.12853

~~1/~~ Price per pound.

* Some varying prices paid each year by small operators. The prices listed here reflect major fish sales.

1) R. J. Chisholm Brothers paid the following prices delivered at the plant: King 0.234/lb.; Side-Cupped 0.200/lb.; Chum 0.274/lb.; Coho 0.194/lb.; Pink & Chum same as above.

TABLE 4. Summary of Prices Paid for Shell Fish and Miscellaneous Fish Products
(1950 - 1964)

Year	Reef Clams	Dungeness Crab	Codfile	King Crab	Other
1950	\$0.12/lb.	\$0.12/lb. 1/	\$5.00/100# sk.	--	--
1951	0.15	0.085	3.00	--	--
1952	0.13	0.085	8.00	--	--
1953	0.13	0.035	--	--	--
1954	0.13	0.08	--	--	--
1955	0.13	0.08	--	--	--
1956	0.13	0.08	0.03/lb.	--	--
1957	0.13	0.05	--	--	Salmor Mags 0.07/lb.
1958	--	0.06	--	--	--
1959	0.13	0.08	--	0.08	--
1960	0.14	0.10	--	0.10	--
1961	0.15	0.10	--	0.10	--
1962	0.15	0.12	--	0.12	--
1963	--	0.14 2/	--	0.12	--
1964	0.20	0.14 2/	--	0.12	--
1965	0.20	0.10 3/	--	--	--

3/ *Missing records - 9%* *prices of prices in these determined every five weeks.*

1/ Prices for Dungeness crab \$0.14 - 0.15 caught outside.
2/ Prices for Dungeness crab were decreased to \$0.12 September 1st.

Done

NUMBER OF SALMON PER CASE

The number of salmon per case for Prince William Sound and for Copper River and Bering River districts is summarized in Table 6 and 7 respectively.

Numbers of salmon vary considerably each year and appear to be a function of several factors including size, ^(Table 5) and condition of the fish, ^{Transporting & handling methods,} and the method and care in canning. Probably other factors are also involved.

The number per case reported in Tables 6 and 7 were the numbers per case reported by Parks Canning Company. The figures reported by Parks shows an increase in size of all species, except red salmon. However, the red salmon figure reported here is the combined pack figure from both the gill net and purse seine fishery.

Done

Done

TABLE 5. Average Weights of Salmon by Area, (Pounds), 1964

1965

Area	King	Red	Coho	Pink	Chum
Prince William Sound	16.39	6.78	8.67	3.94	8.78
Copper River	26.28	5.67	12.99	--	--
Bering River	28.70	6.28	8.85	--	--
ALL AREAS	26.27	5.74	12.16	3.94	8.78

done changed in '65

Done
1965

TABLE 6. Number of Salmon Per Case, 1954 - 1964

(Prince William Sound)

Year	Red	Coho	Pink	Chum
1954	9.5	9.7	16.5 ^{1/}	--
1955	9.6	9.4	15.0	8.7
1956 ^{2/}	--	--	--	--
1957	9.8	10.5	17.4	8.5
1958 ^{2/}	--	--	--	--
1959	C L O S E D S E A S O N			
1960	13.0	13.2	24.4	9.8
1961	10.4	9.0	17.0	9.3
1962	10.93	12.29	24.14	10.71
1963	9.53	7.23	22.89	9.14
1964 ^{4/}	13.52 ^{3/}	6.89	22.39	8.23
1965 ^{4/}	12.49 ^{3/}	10.31 ^{5/}	25.43 ^{5/}	10.23 ^{5/}

^{1/} Estimated number of salmon per case taken from the average of other years.

^{2/} The number of salmon per case not separated by area.

^{3/} Combined pack figure from both Copper River and Prince William Sound.

^{4/} Figures from Parks Canning Company, except in 1965 the pinks are averaged for all canneries.

^{5/} New England Fish Co. reported fish per case as follows: Coho 9.20, pink 24.59, Chum 10.02.

Done

TABLE 7. Number of Salmon Per Case, 1951-1964
(Copper and Bering Rivers)

1965

Year	King	Red	Coho	Pink	Chum
1951 <u>1/</u>	3.4	11.6	3.1	18.1	9.1
1952	3.4	11.6	8.1	18.1	9.1
1953 <u>2/</u>	3.4	11.1	7.0	16.5	9.1
1954	3.2	11.7	7.5	---	---
1955	3.5	11.5	8.6	---	---
1956 <u>2/</u>	3.6	11.2	8.3	26.0	10.2
1957	3.8	11.6	---	---	---
1958 <u>2/</u>	3.0	11.5	8.3	17.0	9.1
1959	3.2	12.9	8.6	---	---
1960	3.6	13.4	9.3	---	---
1961	3.82	12.0	9.24	17.0	9.3
1962	3.26	11.04	10.92	18.27	11.16
1963	3.08	12.21	7.9	---	---
1964 <u>3/</u>	2.86	13.52	6.89	22.39	8.23
<i>1965 <u>3/</u></i>	<i>3.17</i>	<i>12.69 ^{4/}</i>	<i>10.31 ^{4/}</i>	<i>---</i>	<i>---</i>

- 1/ Estimated number of salmon per case taken from the average of other years.
- 2/ The number of salmon per case not separated by area.
- 3/ Figures from Parks Canning Co. combined for both Copper River and Prince William Sound.
- 4/ *Includes some reds & coho from P.W.S.*

Done

COPPER RIVER SALMON

The commercial drift gill net fishing season opened on May 14 and continued without interruption until closed by field announcement on September 19. Weekly catch and case pack data for the major salmon species is summarized in Tables 8, 11 and 12.

A fish price settlement was reached prior to the season opening date, but only four boats participated during the first week. An increase of boats is shown for the second week, but it was not until the third fishing week that the majority of the fleet entered the fishery. Fishing pressure increased rapidly, peaked in the fourth week and gradually decreased through the remainder of the red salmon season. Table 12 shows the fishing pressure reached a minimum during week 33 and peaked again in week 36 of the fall coho season.

The Copper River drift gill net season shows a better than average catch of both red and coho salmon, (Table 9). King salmon are down slightly from the 13 year average shown in Table 9. The case pack, (Table 10) on the other hand shows a larger than average pack for all three species, kings, reds and cohos.

TABLE 8. COPPER RIVER RED SALMON - 1964

(Weekly catch and case pack)

Week No.	Case Pack 1/ (48-1 ¹ / ₂ /cs.)	Total Catch	Total Pounds	Average Wt./Fish	Number Boats	Number Deliveries	Average No. Fish/Boat	Fathoms 2/ of Gear
20	21	284	1,642 3/4	5.78 3/4	4	4	71	600
21	1,140	15,413	89,087 4/4	5.78	54	121	285	8,100
22	14,456	195,449	1,090,605 4/4	5.58	244	872	801	36,600
23	9,690	131,012	712,705 4/4	5.44	289	1,158	453	43,350
24	6,484	87,661	483,012	5.51	276	1,113	313	41,400
25	5,721	77,350	424,652	5.49	238	877	325	35,700
26	3,181	43,010	243,867	5.67	216	755	199	32,400
27	1,810	24,475	145,382	5.94	161	399	152	24,150
28	3,953	53,499	325,274	6.08	210	821	255	31,500
29	2,864	38,719	243,543	6.29	181	543	214	27,150
30	1,163	15,719	99,187	6.31	38	125	414	5,700
31	1,029	13,910	87,772	6.31	34	114	409	5,100
32	184	2,486	15,538	6.25	33	68	75	4,950
33	17	233	1,456	6.25	15	25	16	2,250
34	6	73	577	7.90	54	177	1	8,100
35	--	4	26	6.50	?	635	?	?
36	--	2	12	6.00	?	829	?	?
TOTAL	51,719	699,299	3,964,337	5.67		8,636		

1/ Estimated on the basis of 13.52 reds per case reported by Parks Canning Company.

2/ Basis of 150 fathoms per boat.

3/ Estimated.

4/ Includes some estimates.

Dome 51

TABLE 9. Copper River Drift Gillnet Salmon Catch
(1952 - 1961) 13

1965

YEAR	Kings	Reds	Cohos	Pinks	Chums
1952	29,355	1,136,316	163,740	6,284	1,091
1953 <u>1/</u>	12,198	563,708	29,866	166	46
1954	15,764	1,099,564	157,941	135	272
1955	20,438	636,705	158,208	149	12
1956	11,702	540,575	109,248	1,131	54
1957	8,151	541,637	58,705	1,841	1,224
1958	6,965	307,342	81,610	8,872	181
1959	9,833	299,782	132,259	940	67
1960	8,678	360,667	137,957	375	314
1961	8,464	532,455	133,980	1,639	106
1962	14,792	677,626	174,628	1,880	513
1963	11,138	379,913	203,724	1,287	194
1964	12,743	699,299	227,397	548	62
1965	15,259	807,423	71,445	118	171
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Total	170,221 125,480	7,775,589 8,583,012	1,769,263 1,840,678	25,247 25,365	4,136 4,307
Average	13,094 13,249	598,122 613,072	136,097 131,477	1,942 1,812	318 308

1/ No major operation during coho season.

Dome

TABLE 10. COPPER RIVER SALMON CASE PACK
(1952-1964)

Year	Kings	Reds	Cohos	Pinks	Chums	Total
1952	8,634	97,958	20,214	347	120	127,273
1953 <u>2/</u>	3,588	50,785	4,267	10	5	58,655
1954	4,926	93,980	21,059	8	32*	120,005
1955	5,839	55,366	18,396	10	1*	79,612
1956	3,251	48,266	13,162	44	5	64,728
1957	2,145	46,693	5,590	106	144	54,678
1958	2,322	26,725	9,833	522	20	39,422
1959	3,073	23,239	15,379	81	10	41,782
1960 <u>1/</u>	2,174	26,915	15,497	--	--	44,586
1961	2,215	44,371	14,445	--	--	60,977
1962	4,537	61,379	15,992	103	46	82,057
1963	3,620	31,115	25,698	64	19	60,512
1964	4,458	51,719	33,004	24	8	89,202
1965	4,814	63,627	6,928	4	17	75,382
<hr/>						
TOTAL	50,882 53,696	660,511 724,138	212,536 319,442	1,319 1,343	410 427	923,733 1,001,481
AVERAGE	3,914 3,978	50,809 51,724	16,349 15,676	101 96	32 31	71,056 71,519

1/ Since 1960 the estimated total case pack (48-1#/case) based on total catch and reported number salmon per case.

2/ No major operation during coho season.

* Estimated.

TABLE 11. COPPER RIVER KING SALMON - 1964
(Weekly catch and case pack)

Week No.	Case Pack 1/ (48-1#/cs.)	Total Catch	Total Pounds	Ave. Wt. Per Fish	Number Boats	Number Deliveries	Ave. No. Fish/Boat	Fathoms 2/ of Gear
20	2	7	211	30.13	4	4	1.75	600
21	149	425	11,794	27.75	54	121	7.87	8,100
22	1,209	3,459	90,384	26.13	244	872	14.18	36,600
23	1,815	5,191	129,152	24.88	289	1,158	17.96	43,350
24	1,049	3,000	84,240	28.08	276	1,113	10.87	41,400
25	169	482	14,176	29.41	238	877	2.03	35,700
26	44	126	3,557	28.23	216	755	0.58	32,400
27	3	10	223	22.29	161	399	0.06	24,150
28	5	13	356	27.38	210	821	0.06	31,500
29	13	35	793	22.67	181	543	0.19	27,150
30	--	1	30	30.09	38	125	0.03	5,700
31	--	--	--	--	34	114	--	5,100
32	--	--	--	--	33	68	--	4,950
33	--	--	--	--	15	25	--	2,250
34	--	1	11	11.00	54	177	0.01	8,100
TOTAL	4,458	12,743	334,927	26.28	2,047	6,343	55.59	307,050

1/ Estimated case pack on the basis of 2.86 king salmon per case reported by Parks Canning Company.
2/ Basis of 150 fathoms per boat.

done

Done

1 2 1

TABLE 12. Copper River Coho Salmon - 1964
(Weekly Catch and Case Pack)

Week	Case Pack (48-1#/cs.)	Total Catch	Total Pounds	Ave. Wt. Per Fish	Number Boats	Number Deliveries	Ave. No. Fish/Boat	Fathoms of Gear
24	0	3	22	7.3	297	1,113	0	44,550
25	6	40	292	7.3	275	877	0.2	41,250
26	0	0	0	-	224	755	0	33,600
27	0	1	4	4.0	177	399	0	26,550
28	0	2	12	6.0	219	821	0	32,850
29	10	69	494	7.17	200	544	0.4	30,000
30	17	118	809	6.86	41	125	2.9	6,150
31	50	345	2,253	6.53	43	115	8.0	6,450
32	208	1,430	8,980	6.28	34	68	42.1	5,100
33	249	1,719	13,752	8.00	15	25	114.6	2,250
34	1,992	13,728	123,552	9.00	54	177	254.2	8,100
35	5,961	41,068	429,571	10.46	181	632	226.9	27,150
36	11,264	77,608	899,477	11.59	206	856	376.7	30,900
37	13,235	91,186	1,100,615	12.07	196	783	465.2	29,400
38	2,192	15,100	187,844	12.44	104	250	145.2	15,600
TOTAL	35,184	242,417	2,767,677	11.41	2,266	7,540	1,636.4	338,900

BERING RIVER SALMON

The commercial salmon fishing season opened May 14 and continued without interruption until closed by field announcement on September 19. However, the Bering River fishery is later than the Copper River fishery and fishing did not commence until the fifth week of the season. In 1964 the fishery for reds lasted through four weeks with the peak effort and catch occurring in week 25 which was the second fishing week, (Table 13).

Normally there is a lull in fishing activity after the peak of the red salmon. In 1964 no fishing was done at Bering River between week 27 and week 35. The fall coho fishery started during week 35 and terminated during week 38, (Table 14).

The salmon catch and case pack from Bering River is summarized in Tables 15 and 16 and shows comparative data since 1953. The 1964 catch is way below the twelve year average in Table 15 and is the smallest for the past 10 years. The small returning run is probably the main factor leading to the small catch; however, tagging evidence indicates that some reds bound for Bering River were taken at Little Softuk bar on the Copper River delta.

A better than average catch of coho was taken from the Bering River district, (Table 15). The peak catch occurred in week 37 and the intense four week fishery took the majority of the coho in a two week period.

TABLE 13. BEATING RIVER RED SALMON - 1964 1/

(Weekly catch and case pack)

Week No.	Case Pack 2/ (48-1#/cs.)	Total Catch	Total Pounds	Average Wt./Fish	Number Boats	Number Deliveries	Ave. No. Fish/Boat	Fathoms 3/ of Gear
24	324	4,385	29,039	6.62	17	57	258	2,550
25	566	7,646	48,039	6.28	32	88	239	4,800
26	264	3,572	21,341	5.97	25	56	143	3,750
27	97	1,308	7,787	5.95	15	36	87	2,250
TOTAL	1,251	16,911	106,206	6.28	89	237	727	13,350

- 1/ In addition to the red and coho catch, a total of 47 king salmon were caught.
- 2/ Estimated case pack on the basis of 2.86 king salmon per case reported by Parks Canning Company.
- 3/ Basis of 150 fathoms per boat.

None

TABLE 14. Bering River Coho Salmon - 1954
(Weekly Catch and Case Pack)

Week	Case Pack 1/ (48-1#/cs.)	Total Catch	Total Pounds	Ave. Wt. Per Fish	Number Boats	Number Deliveries	Ave. No. Fish/Boat	Fathoms 2/ of Gear
35	472	3,255	32,475	9.98	12	34	271	1,800
36	3,693	25,444	275,042	10.81	39	221	652	5,850
37	5,651	38,932	438,312	11.26	42	264	927	6,300
38	1,412	9,729	114,900	11.81	26	85	374	3,900
TOTAL	11,228	77,360	860,729	11.13	119	605	2,224	17,800

1/ Estimated case pack on the basis of 6.89 coho per case, Table 7.

2/ Basis 150 fathoms per boat.

Done

TABLE 15 . **BERING RIVER DRIFT GILLNET SALMON CATCH**
(1953-1964)

Year	Kings	Reds	Cohos	Pinks	Chums
1953	26	8,572	0	0	0
1954 <u>1/</u>	0	129	91,964	9	1
1955	125	34,121	70,100	50	2
1956	147	41,437	53,484	46	5
1957	71	29,142	27,441	27	22
1958	72	23,947	21,202	32	1
1959	77	27,384	58,560	6	0
1960	63	32,890	68,255	101	5
1961	29	55,084	50,883	30	1
1962	246	72,230	55,502	—	2
1963	72	21,525	87,075	56	0
1964	47	16,911	77,360	0	0
<i>1965</i>	<i>7</i>	<i>13,536</i>	<i>59,162</i>	<i>7</i>	<i>134</i>
<hr/>					
TOTAL	975 982	363,372 376,908	661,826 712,989	357 301	38 204
<hr/>					
AVERAGE	81 75	30,281 28,993	55,152 54,922	30 28	3 16

1/ Set gill nets caught 129 reds and 7,665 cohos in 1954.

Done

TABLE 16. BERING RIVER SALMON CASE PACK 1/
(1953 - 1965)

Year	Kings	Reds	Coho	Pinks	Chums	Total
1953	8	772	0	0	0	780
1954	0	11	12,262	*	*	12,273
1955	36	2,967	8,151	3	*	11,157
1956	41	3,700	6,444	1	*	10,186
1957	19	2,512	2,613	1	3	5,148
1958	24	2,082	2,554	2	*	4,662
1959	24	2,123	8,809	*	*	10,956
1960	16	2,454	7,257	0	0	9,727
1961	8	4,590	5,506	2	0	10,106
1962	75	6,543	5,083	0	0	11,701
1963	23	1,763	11,022	2	0	12,810
1964	16	1,251	11,288	0	0	12,555
1965	2	1067	8091	*	16	6,049

TOTAL	290 292	30,768 31,835	80,989 86,093	11	3 19	112,061 128,103
AVERAGE	24 22	2,564 2,449	6,749 6,619	-- 1	1 1	9,338 9,324

1/ Estimated total case pack (48-1#/case) based on reported number of salmon per case and total salmon catch.

* Less than one case.

Done

PRINCE WILLIAM SOUND SALMON

Commercial Fishery (General Purse Seine Season)

Aerial surveys made over Prince William Sound waters did not indicate a strong early salmon run and the season opened July 13 as scheduled in the published regulations. Fishing pressure was minimal during the opening week, (Table 21), due mainly to a limited processing capacity. The Copper River Co-op floating cannery and Western Alaska Enterprises (Japanese) with one freezer ship were the only operators during the opening week, (Table 22). Parks Canning Company entered the fishery along with several other Japanese freezer ships in the second week and the increase in capacity resulted in increased fishing pressure.

Due to limited processing capacity the Japanese, working through the local Marketing Association, imposed stringent catch limits of 45 salmon per fisherman early in the season. The limit was gradually increased as the season and processing capacity increased. The Copper River Co-op also imposed limits on their fishermen of 1500 salmon per fishermen every other day. When limits were imposed the fishermen became selective and delivered larger percentages of chum salmon to gain the extra weight of larger fish.

Tables 21, 23, 25 and 26 summarize the weekly catch and case pack by species. The fishery increased rapidly in the second week and reached a peak during week 32. Total catch by species is as follows: pinks, 4,189,505; chum, 521,711; red, 37,517; and coho, 30,914. The total catch converted to case pack is based on the case pack figures from Parks Canning Company.

Annual case pack and catch data is shown in Table 19 and 20, respectively. The catch and case pack of king, chum and coho were above the 34 year average.

Pink and chum salmon catch by company is given in Table 22 and 24. Of the six processors operating, the Japanese operation took the major share of the purse seine catch.

A summary and comparison of gear operated is shown in Table 18. As indicated in Table 18, the amount of gear fluctuates considerably each year and is more or less dependent on salmon run forecasts.

TABLE 21

PRINCE WILLIAM SOUND SUMMARY OF FISHING SEASONS, 1924-1964

Over the top in 1955

GENERAL AREA:

SPECIAL AREA OPENINGS AND CLOSURES:

Year	Opening Date	Closing Day	Season Extensions	Special Closures	Weekly Closures	Eshamy Closures	Pt. Valdez Closures	Pt. Fidalgo Closures	Drier Bay Openings	Pt. Wells Closures
1924	None Set	None Set	None	None	48 hrs.	None	None	None	None	None
1925	None Set	None Set	None	8/10-25	48 hrs.	None	None	None	None	None
1926	None Set	None Set	None	8/9-25	48 hrs.	None	None	1800 7/9	None	None
1927	0600 6/6	0600 9/21	None	8/5-30	36 From 8/25	1800 8/20	None	0600 7/11	None	None
1928	0600 6/6	1800 8/5	None	None	36 from 8/23	1800 8/15	None	0600 7/11	0600 5/19	None
1929	0600 6/20	0600 8/3	None	8/3-7	48 hrs.	1800 8/15	None	0600 7/11	0600 5/28	None
1930	0600 6/20	0600 8/2	None	None	48 hrs.	1800 8/15	None	None	None	None
1931	0600 6/20	0600 8/5	8/2-5	None	48 hrs.	1800 8/15	None	None	None	None
1932	0600 6/20	1800 8/3	7/30-8/3	None	36 hrs.	1800 8/15	None	None	None	None
1933	0600 6/20	1800 8/4	8/1-4	None	48 hrs.	1800 8/22	1800 9/20	None	None	None
1934	0600 6/20	1800 8/2	None	None	48 hrs.	1800 8/22	1800 9/20	None	None	None
1935	0600 6/20	1800 8/3	None	None	48 hrs.	1800 8/22	1800 9/20	None	None	None
1936	0600 6/25	1800 8/5	None	None	48 hrs.	1800 8/22	1800 9/20	None	None	None
1937	0600 6/25	1800 8/2	None	8/2-5	48 hrs.	1800 8/22	1800 9/20	None	None	None
1938	0600 6/25	1800 8/6	8/5-9	None	48 hrs.	1800 8/22	1800 9/20	None	None	None
1939	0600 7/5	1800 8/8	8/5-8	None	48 hrs.	1800 8/22	1800 9/20	None	None	None
1940	0600 7/5	1800 8/6	None	None	60 hrs.	1800 8/22	1800 9/20	None	None	None
1941	0600 7/5	1800 8/5	None	None	48 hrs.	1800 8/22	1800 8/22	None	None	None
1942	0600 7/5	1800 8/10	8/7-10	None	48 hrs.	1800 8/22	1800 8/22	None	None	None
1943	0600 7/5	1800 8/11	8/5-9	None	48 hrs.	1800 8/22	None	None	None	None
1944	0600 7/10	1800 8/9	8/10-11	None	48 hrs.	1800 8/22	None	None	None	None
1945	0600 7/1	1800 8/5	None	None	48 hrs.	1800 8/22	None	None	None	None
1946	0600 7/10	0600 8/14	8/7-13	None	48 hrs.	1800 8/22	None	None	None	None
1947	0600 7/5	1800 8/7	8/13-14	None	48 hrs.	1800 8/22	None	None	None	None

2400 7/27

TABLE 17.

continued, PRINCE WILLIAM SOUND SUMMARY OF FISHING SEASONS, 1924-1984

GENERAL AREA:

SPECIAL AREA OPENINGS AND CLOSURES:

Year	Opening Date	Closing Day	Season Extensions	Special Closures	Weekly Closures	Eschamy Closures	Pt. Valdez Closures	Pt. Fidalgo Closures	Drier Bay Openings	Pt. Wells Closures
1948	0600 7/20	1800 8/7	None	None	48 hrs.	1800 8/22	None	None	None	None
1949	0600 7/1	1800 8/7	None	None	48 hrs.	1800 8/22	None	None	None	None
1950	0600 7/20	1800 8/4	None	8/4-7	48 hrs.	1800 8/22	None	None	None	None
<u>Cofh111</u>										
1951	0600 7/1	0600 8/1	None	8/1-6	48 hrs.	1800 8/22	None	None	None	None
1952	0600 8/4	1800 8/30	None	None	48 hrs.	1800 8/22	None	None	None	None
1953	0600 7/13	1800 8/8	8/5-8	None	48 hrs.	1800 8/22	None	None	None	None
1954	CLOSED				48 hrs.	1800 8/22	None	None	None	None
1955	CLOSED				48 hrs.	1800 8/22	None	None	None	None
1956	0600 7/10	0600 8/6	None	None	48 hrs.	1800 8/22	None	None	None	None
1957	0600 7/10	0600 8/5	None	8/5-10	48 hrs.	1800 8/22	0900 9/3-1800 9/6	(Opening)(Closing)	None	None
1958	0600 7/10	0600 8/6	None	1/ 8/6-9	48 hrs.	CLOSED	None	None	None	None
1959	CLOSED					CLOSED				
1960	1201 7/11	1800 8/3	None	7/4-10 2/	72 hrs.	CLOSED	None	None	None	7/16 West Side
1961	Eastern, Southeastern		3/			1200 8/18	None	0600 8/15-1800 8/18	1200 6/12	
	0600 8/1		1800 8/14					(Opening)(Closing)	1200 7/14	
	Montague		3/							
	0600 8/8		1800 8/14							
1962	General		4/							
	0600 7/9		2400 8/13							
					119 hrs. 5/	0600 7/2			0600 6/18	
1963	0500 7/1	1900 8/19 5/				1200 8/15			1800 7/14	
						CLOSED			0600 6/18-Open	
1964	0600 7/13	0600 8/15 5/	8/16-21		48 hrs.	CLOSED			1800 7/14-Closed	
						CLOSED			0600 6/18-Open	

1/ Season closure by time table released to allow all gear to fish until closure on 8/6.
 2/ Fishing days by gear time table during season. On 8/2-3 fishing allowed 12-hour day. Fishing closed 1800 8/3.
 3/ 12-hour fishing day.
 4/ 14-hour fishing day.
 Refer to special regulatory changes by field announcement. (Also Table 51 for fishing time.)

22
TABLE 18

Summary of Salmon Gear Operated, 1953 - 1964 1/

1965

Year	PRINCE WILLIAM SOUND			COPPER RIVER DRIFT GILLNETS 2/	
	Traps	Purse Seines	Gill Nets 2/	Red Season	Coho Season
1953	21	76	15,450 3/	75,000	7,900
1954	C L O S E D		4,725 4/	87,000	27,000
1955	C L O S E D		4,400 4/	88,050	25,000
1956	25	132	4,600 4/	74,100	--
1957	11	152 5/	4,400 4/	77,700	30,000
1958	13	183	CLOSED	75,900	--
1959 6/		CLOSED	CLOSED	53,250	25,050
1960		223	CLOSED	59,400	34,050
1961		102	(3750 - Coghill) (4200 - Eshamy) 7/	50,550	25,650
1962		237	(8550 - Coghill) (3750 - Eshamy) 7/	59,100	27,450
1963		281	(3450 - Coghill)	61,650	37,950
1964		154	(8850 - Coghill)	43,350	30,900
1965		208	(3750 - Coghill) (6150 - Eshamy) 7/	50,100	26,850

1/ Peak effort.

2/ Fathoms of gear.

3/ Including Eshamy.

4/ Eshamy only.

5/ 50 purse seines operated during a special chum season.

6/ Fish traps declared illegal when Alaska became a State.

7/ Includes set and drift gill nets.

done

Done
1946-1965

23
TABLE 19. PRINCE WILLIAM SOUND ANNUAL SALMON CASE PACK, 1/4)

Year	Reds	Kings	Pinks	Chums	Cohos	Total
1931	13,188	199	374,880	59,516	5,889	453,672
1932	24,369	1,402	206,842	33,142	10,756	276,511
1933	9,296	726	194,275	31,475	7,390	243,162
1934	13,398	1,121	385,207	33,752	11,796	445,274
1935	16,115	557	200,990	52,228	3,223	273,113
1936	13,759	402	608,269	23,606	5,152	651,188
1937	8,236	295	182,309	21,527	5,770	218,137
1938	10,204	284	461,781	31,106	5,703	509,078
1939	10,895	246	129,173	28,725	3,505	172,544
1940	6,360	242	522,138	53,641	7,776	590,157
1941	5,966	96	212,729	73,637	4,369	296,797
1942	10,844	439	356,528	81,359	6,282	455,452
1943	4,334	108	511,020	30,326	7,559	560,347
1944	11,243	151	416,888	118,063	7,512	553,857
1945	15,216	109	498,684	156,821	4,566	675,396
1946	9,529	372	315,972	72,571	15,674	414,128
1947	17,176 ^{1/2}	180	376,125	63,676	6,240 ^{1/2}	463,397
1948	18,460	45	120,765	46,010	3,663	188,943
1949	8,272	160	273,226	82,409	11,107	375,174
1950	7,049	74	105,397	53,450	8,625	174,595
1951	19,996	1,469	47,809	54,942	5,295	129,511
1952	6,997	5	115,451	66,254	5,508	194,215
1953	4,929	37	122,236	34,552	4,085	165,839
1954*	654	--	746	695	56	2,151*
1955*	1,346	--	1,795	550	63	3,754*
1956	15,442	31	185,664	48,772	3,313	253,222
1957	6,322	171	35,431	74,716	1,892	118,532
1958	1,117	6	358,860	77,922	597	438,502
1959			C L O S E D			
1960 ²⁾	2,701	2	70,554	39,711	1,267	114,235
1961 ²⁾	6,589	106	135,189	24,129	1,221	167,234
1962 ²⁾	5,454	33	270,797	81,856	1,457	359,597
1963	5,835	119	228,077	101,561	3,914	339,506
1964	2,773	16	187,114	63,392	4,487	257,782
<i>NCS</i>	9880	345	93,870	19,435	1345	124,875
Total ³⁾ ₄₎	148,521 312,064	3171 9,203	3,042,527 8,210,380	1,065,358 1,814,847	79,690 175,593	4,279,217 10,522,087
Average ³⁾ ₄₎	8,737 9,178	187 271	174,913 241,482	59,139 53,378	4,686 5,165	251,722 309,473

- 1/ Case pack on the basis of 48-1 pound cans per case. *Case pack estimates*
- 2/ ~~Case pack includes~~ Eshamy and Coghill Districts and troll catches.
- 3) ~~2)~~ Beginning in 1960, the case pack is estimated by using the total catch and the number of salmon per case at Cordova plants.
- 4) ~~3)~~ Excluding the years 1954, 1955, and 1959 when purse seining closed. Eshamy only.
- 5) For case pack data prior to 1946 refer to 1964 annual report.

5) For catch data prior to 1946 refer to 1964 Annual Report.

Corrected for 1965

TABLE 20.

PRINCE WILLIAM SOUND ANNUAL SALMON CATCH 1/5/

1946-1965 Prince

Year	Reds	Kings	Pinks	Chums	Cohos	Total
1931	159,499	1,507	4,860,083	560,270	55,108	5,636,467
1932	256,047	7,907	3,466,435	350,895	99,856	4,181,140
1933	106,985	3,842	3,030,274	285,824	75,538	3,502,463
1934	143,524	3,621	6,788,991	261,479	100,331	7,297,946
1935	175,191	3,302	2,618,009	471,050	33,557	3,301,109
1936	153,033	3,421	9,581,246	218,550	43,783	10,000,033
1937	108,121	1,757	3,332,395	227,468	60,062	3,729,803
1938	116,135	1,475	7,545,648	249,754	52,735	7,965,747
1939	120,544	2,004	2,075,310	273,015	35,664	2,506,537
1940	76,167	1,046	11,542,576	532,327	89,549	12,241,665
1941	74,797	355	3,774,792	507,350	47,574	4,404,868
1942	96,526	1,433	7,002,089	702,331	63,612	7,865,991
1943	164,965	340	10,814,268	475,877	73,365	11,528,815
1944	141,002	761	8,346,755	1,208,587	65,454	9,762,559
1945	175,198	367	11,632,238	1,753,720	43,679	13,605,202
1946	110,787	1,669	8,026,032	757,173	153,011	9,054,672
1947	199,208	781	8,077,210	706,189	66,335	9,049,723
1948	208,159	207	2,460,760	457,618	35,168	3,161,912
1949	93,396	643	6,089,394	827,665	115,556	7,126,654
1950	74,585	558	1,850,731	455,900	74,445	2,456,219
1951 2/	119,976	4,407	1,051,798	467,007	37,065	1,680,253
1952	80,467	—	2,339,500	458,880	41,356	2,920,203
1953	54,712	126	2,016,894	314,423	28,595	2,414,750
1954 3/	6,213	—	12,309	6,047	543	25,112
1955 3/	12,921	—	26,925	4,785	592	45,223
1956 2/	172,950	111	4,827,264	497,474	27,498	5,525,297
1957	61,956	599	616,499	524,841	19,761	1,223,656
1958	13,821	54	6,289,435	687,263	8,196	6,998,769
1959			C I O S E D			
1960	35,176	1,580	1,841,899	381,858	30,722	2,289,655
1961	55,551	406	2,287,766	221,951	3,335	2,568,603
1962	44,679	1,834	6,543,081	871,858	17,888	7,497,506
1963	39,746	449	5,248,773	933,133	30,998	6,252,650
1964	37,517	65	4,189,505	521,711	30,914	4,779,647
TOTAL	3,489,554	46,627	160,206,884	17,174,273	1,667,845	182,585,183
AVERAGE 4/	113,441	1,504	5,166,698	553,659	53,765	5,889,815

1/ Catch by all gear from all districts of Prince William Sound.
 2/ Estimated catch using conversion of case pack.
 3/ Eschamy district catch only. General season closed.
 4/ Excluding the years 1954, 1955 and 1959.

TABLE 21. PRINCE WILLIAM SOUND PINK SALMON - 1964

Dave

PURSE SEINE (Weekly Catch and Case Pack)

Week	Case Pack 1/ (4.8-1 1/4/case)	Total Catch	Total Pounds	Ave. Wt. Per Fish	No. Units of gear	Number Landings	Ave. No. Fish/Boat	No. Fishing Days/Week 2/	
12-16	29	527	11,795	44,231	3.75	25	25	472	5
19-25	30	14,907	333,774	1,251,653	3.75	135	507	2,472	6
26-31	31	63,335	1,418,070	5,573,015	3.93	154	851	9,208	7 3/4
1-8	32	77,050	1,725,159	6,831,630	3.96	151	779	11,425	6 3/4
9-15	33	29,458	659,568	2,651,463	4.02	143	395	4,612	5
16-22	34	1,837	41,139	163,322	3.97	29	26	1,419	5 3/4
TOTAL	187,114	4,189,505	16,515,314	3.94	637	2,583	29,608	34	

- 1/ Estimated case pack on the basis of 22.39 pink salmon per case from average reported by Parks Canning Company.
- 2/ Fishing day from 6:00 am to 6:00 am, 24 hours per day.
- 3/ During week 31, 32 and 34 on some days fishing was allowed only in limited areas. Refer to section on Emergency Orders.

done

Druid in 1965

TABLE 22. Prince William Sound Pink Salmon by Company, 1964 1/

Week	Copper River Co-op 2/	Parks Canning Co. 2/	Mitsubishi International 3/	Western Alaska Enterprises 3/	Kayak Packing Co. 2/	Roy Strimatter	Total
26	291	873					1,164
27	2,149	403				344	2,896
28	1,858					202	2,060
29	11,643						11,643
30	7,657	63,543	2,519	219,342	20,688		313,749
31	27,517	192,464	880,326	595,788	17,621		1,713,716
32	45,228	362,740	578,723	445,551	17,666		1,449,908
33	11,531	158,656	492,969	115,760			778,916
34			71,976				71,976
TOTAL	107,874	778,679	2,026,513	1,376,441	55,975	546	4,346,028

- 1/ Includes Coghill district.
- 2/ Estimated from weekly pack report on the basis of number of salmon per case reported by Parks Canning Company.
- 3/ Estimated from weekly pack report on the basis of average number of pounds per salmon from fish ticket reports.

TABLE 29. PRINCE WILLIAM SOUND CHUM SALMON - 1964

PURSE SEINE (Weekly Catch and Case Pack)

Dover

Week	Case Pack 1/ (48-1#/case)	Total Catch	Total Pounds	Ave. Pounds Per Fish	No. Units of gear	Number Landings	Ave. No. Fish/Boat	No. Fishing Days/week 2/
25 <u>4/</u>	2	20	176	8.80	3	3	7	5
26 <u>4/</u>	15	125	1,100	8.80	12	13	10	5
29	652	5,363	47,194	8.80	25	25	215	5
30	17,466	143,747	1,522,472	8.80	135	507	1,065	6
31	27,743	228,325	1,977,295	9.20	154	851	1,483	7 <u>3/</u> 1
32	11,611	95,556	821,782	8.60	151	779	633	6 <u>3/</u> 1
33	5,734	47,188	401,098	8.50	143	395	330	5
34	169	1,387	11,665	8.41	29	26	48	5 <u>3/</u>
TOTAL	63,392	521,711	4,582,782	8.78	652	2,599	3,791	44

- 1/ Estimated case pack on the basis of 8.23 chum salmon per case from average reported by Parks Canning Company.
- 2/ Fishing day from 6:00 am to 6:00 pm, 24 hours per day.
- 3/ During week 31, 32 and 34 on some days fishing was allowed only in limited areas. Refer to section on Emergency Orders.
- 4/ Fish taken during the early Cognhill District fishery.

Dist in 1965

TABLE 24. PRINCE WILLIAM SOUND CHUM SALMON BY COMPANY, 1964 1/

Week	Copper River Co-op 2/	Parks Canning Co. 2/	Mitsubishi Int'l. 3/	Western Alaska Ent. 3/	Kayak Packing Co. 2/	Roy Strimatter	Ross Fish Co. 4/	Total
26	280	99					208	587
27	683	313				571	33	1,600
28	1,983					186		2,169
29	8,460							8,460
30	13,316	62,326	167	52,153	7,489		115	135,566
31	4,469	60,589	156,747	13,268	8,732			243,805
32	1,942	26,970	21,364	23,261	2,790			76,327
33	247	9,999	31,626	17,080				58,952
34			9,872					9,872
TOTAL	31,380	160,296	219,776	105,762	19,011	757	356	537,338

- 1/ Includes Coghill District.
- 2/ Estimated from weekly pack report on the basis of number of salmon per case reported by Parks Canning Company.
- 3/ Estimated from weekly pack report on the basis of average number of pounds per salmon from fish ticket reports.
- 4/ Heads off, eviscerated.

TABLE 25.

PRINCE WILLIAM SOUND RED SALMON - 1964

PURSE SEINE (Weekly Catch and Case Pack)

Week	Case Pack 1/ (48-1# / case)	Total Catch	Total Pounds	Avg. Pounds Per Fish	No. Units of Gear	Number Landings	Ave. No. Fish/Boat	No. Fishing Days/Week 2/
30	263	3,564	21,384	6.00	135	507	26.40	5
31	993	13,132	93,621	6.97	154	851	87.22	7
32	1,291	17,461	120,131	6.88	151	779	115.63	6
33	225	3,047	19,227	6.31	143	395	21.31	5
34	1	13	78	6.00	29	29	0.43	5
TOTAL	2,773	37,517	254,441	6.78	612	2,561	250.99	29

1/ Estimated case pack on the basis of 13.52 red salmon per case from average reported by Farks Canning Company.

2/ Fishing day from 6:00 a.m. to 6:00 a.m., 24 hours per day.

Done

Done

TABLE 26. PRINCE WILLIAM SOUND COHO SALMON - 1964

PURSE SEINE (Weekly catch and case pack)

Week	Case Pack 1/ (48-lb/case)	Total Catch	Total Pounds	Ave. Pounds Per Fish	No. Units of Gear	Number Landings	Ave. No. Fish/Boat	No. Fishing Days/Week 2/
29	13	92	810	8.80	25	25	3.68	5
30	402	2,771	24,385	8.80	135	507	20.53	6
31	630	4,338	37,827	8.72	154	851	28.17	7
32	2,868	19,765	169,369	8.57	151	779	130.88	6
33	568	3,911	35,121	8.98	143	395	27.35	5
34	6	39	363	9.31	29	29	1.34	5
TOTAL	4,487	30,914	267,875	8.67	637	2,586	211.95	34

- 1/ Estimated case pack on the basis of 6.89 coho salmon per case from average reported by Parks Canning Company.
- 2/ Fishing day from 6:00 a.m. to 6:00 a.m., 24 hours per day.

Done

Done

AERIAL AND GROUND SURVEYS OF PRINCE WILLIAM SOUND
SALMON SPAWNING STREAMS

Periodic aerial and ground surveys were conducted on salmon spawning streams in Prince William Sound in 1964 to evaluate the spawning escapement and to assist in the management of the fishery. The survey data was used during the fishing season to determine where the spawning escapement was adequate, in which case additional water was opened to fishing, or if escapement was weak the necessary action was taken to insure protection and escapement of needed spawning runs.

The surveys also provide data for a total estimate of the spawning escapement by species, distribution on the spawning ground and distribution by stream. This data is important in the overall evaluation of the runs and their relationship to returning runs.

Salmon spawning escapement estimates are summarized in Tables 27 to 31.

²⁹
TABLE 27. PRINCE WILLIAM SOUND PINK, CHUM AND RED SALMON

Total Estimated Spawning Escapement by District

~~1964~~ 1965

District	Number of Streams Surveyed	Pinks	Chums	Reds
Eastern	99 106	485,460 561,000	176,840 69,170	2,500 7,500
Northern	53 50	348,990 57,000	64,750 30,100	6,300 6,000
Northwestern - Coghill	61 58	356,670 260,000	136,590 37,600	30,310 85,200
Southwestern - Eshamy	60 55	172,800 265,200	3,560 1,300	74,229 111,400
Montague	58 50	121,920 77,000	31,650 17,500	1,500 100
Southeastern	52 50	358,850 65,000	29,160 46,400	0 0
TOTAL	383 369	1,844,690 915,900	442,550 145,400	114,839 210,260

All number of streams rounded to nearest ten.

done

Dme

TABLE 28a. PRINCE WILLIAM SOUND PINK SALMON, 1964
(Live counts in streams) 1/

Stream No. 5/	Stream or Bay	WEEK ENDING											Calculated Season Total		
		7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13		9/20	
1	Hartney Creek				600	900	<u>710</u>	2500		1400					3000
11	Humpy Creek			0	0	300		<u>150</u>	2500					3560	
21	Rogue Creek							<u>415</u>						2650	
35	Koppen Creek		1500		11000	12000		11000		19500			<u>14190</u>	45470	
36	Sheep River		150		3800	<u>1500</u>		3300		5000			<u>8600</u>	15180	
46	Comfort Creek		0		0	0		100		4000				4240	
48	Bearttrap River		0		1200			5200		18000				30960	
49	Cataract Creek		0		0	300		1000						2500	
50	Gravina River		0		0	0		3500					100	4640	
51	Olsen Creek		50		200	1500	3600	10000		24000			4000	31220	
52	Control Creek		100		100	3000		<u>7100</u>		6000			200	9680	
61	Port Gravina					0		<u>1500</u>					2200	2520	
76	Irish Creek		1500		500	700				7500			<u>2200</u>	9480	
80	Whalen Creek		0		200	100		500		10000			<u>250</u>	12080	
88	Short Creek		0		0	0		200		2200				2260	
89	Fish Creek		200		1500	3000		3500		7500				13680	
92	Fish Bay		0		0	0		500		1500				2000	
94	Fish Bay		0		0	0		100		2500			<u>320</u>	2670	
99	Lagoon Creek		0		1500			8500		37500			<u>12250</u>	49100	
115	Millard Creek		0		3500	<u>3250</u>	4500	10000		9000			<u>3810</u>	15770 4/	
116	Duck River		0		0	500	2000	2000		15000			<u>46300</u>	38520	
120	Donaldson Creek		4000		4000	<u>13300</u>	6500	4500		10000			<u>11600</u>	24960	
121	Levshakoff Cr.		0		0	<u>200</u>	400	1200		1200				5040	
123	Gregorieff Cr.		300		500		200	2200		5000				6270	
127	Naomoff Creek		0		0		<u>3500</u>	1300		3000				4780	
129	Vlasoff Creek		0		2800	<u>4300</u>	3800	1500		11000				14600	
131	Port Valdez		0		0	<u>4100</u>	3100			5000				10840	

continued next page

Done

TABLE 28a. HERMANE WILLIAM SOUND PINK SALMON, 1964 cont.
(Live counts in streams) 1/

Stream No. 5/	Stream or Bay	WATER FADDING												Calculated Season Total	
		7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20		
133	Sawmill Creek			0	200	<u>2500</u>	4000								4860
143	Siwash Creek				0		1500								3030
152	Twin Falls Cr.			0	100										18260
153	Stellar Creek		2000	6000	10000	<u>44700</u>	20000	2500		4000	25000				61380
	Other Streams (43)	<u>2/3/</u>			1100	2500	5150	8500	12825	14275	10280	7090	3190		52970
	DISTRICT TOTAL 3/	1,550	4,150	4,150	11,630	<u>106,460</u>	100,250	152,840	225,075	208,730	190,710	72,390			485,460
	(99 Streams)														64

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 4.0. All other calculated from stream life factor of 2.5.
- 5/ Stream numbering system revised in 1962.

TABLE 28b. FRINGE WILLIAM SOUND PINK SALMON, 1964
(Live counts in streams) 1/

Done

Stream No. 5/	Stream or Bay	WEEK ENDING										Calculated Season Total			
		7/19	7/26	8/2	8/9	8/16	8/23	8/29	9/6	9/13	9/20				
204	Columbia Bay													2500	3140
205	Long Bay													6500	7480
214	Long Creek				2000	1500								21000	22600
216	Vanishing Creek				3100	1000								27000	27840
224	Backyard Creek		0			300			500					3000	3220
229	Gedar Creek				1000	0								6000	6860
234	Wells River		0		4500	1200								20000	21280
241	Gannery Creek		0	3000	15000	30000								35000	42500 4/1
242	Cowpen Creek					2500								2500	4360
257	Jonah Bay			0	500	800								3000	4000
258	Jonah Creek			0	85000	75000								50000	102500 4/1
253	Waterfall Creek			0	4500	500								5000	8120
254	Stwash River		0	300	500	3700								20000	20160 4/1
265	Unakwik Creek		0	0	0									5000	6000
273	Schoppe Creek			0	100									4840	4840
276	Black Bear Creek			0	2600	200								2560	2560
279	Ganyon Creek			0	300	30000								4000	32380
281	Eaglek River		0	0	1200	0								4080	4480
283	Eaglek Bay			0	0	0								3600	4080
291	Derrickson Bay		0		200	200								3500	3380
	Other Streams (29) 2/3/		2260		4300	5120		4900		7330		11390		5380	2355
	DISTRICT TOTAL	1,000	5,800	84,160	126,600	154,670	141,200	205,230	243,990	95,230	32,105	348,990		17210	
	(53 Streams) 3/														

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 4.0. All others calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Dove

TABLE 28c. PRINCE WILLIAM SOUND FISH SALMON, 1964
(Live counts in streams) 1/

COGHILL DISTRICT

WEEK ENDING

Station	Stream or Bay	WEEK ENDING												Calculated Season Total		
		7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20				
303	Triple Creek			800		200	1800									3460
332	Coghill River	1000		2000		2000	4000	7000								9720
	Other Streams (8) <u>2/3/</u>	100		330	1250	2500	2300	3485	1735	600	220	80				5040
DISTRICT TOTAL (25 streams) <u>3/</u>		500	1,500	3,130	3,700	4,700	8,100	13,485	7,235	1,900	820	480				18,220

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream numbering system revised in 1962.

TABLE 28d. PRINCE WILLIAM SOUND PINK SALMON, 1964
(Live count in streams) 1/

Done

NORTHEASTERN DISTRICT

WEEK ENDING

Stream No. <u>5/</u>	Stream or Bay	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	Calculated Season Total
414	Harrison Creek					3500		7500	4000						11820
421	Willi Creek				0			<u>10000</u>	4000			6000			17000
425	Hummer Bay				2000	0		5000	1000			7000		1000	12480
428	Pirate Creek					0		100	500			2500			2130
430	Meacham Creek				1000	3000	7500	15000	10000			<u>7000</u>	4000		29640
432	Swanson Creek				25000	18000		<u>41700</u>	25000			21000			86280
435	Logging Camp Creek				750			<u>6700</u>	4500			3000			11540
454	Halferty Creek				0	0		<u>6500</u>	1300			4500			8160
455	Paulson Creek				1000	1200		<u>2750</u>	4000			4500			10340
459	Rainy Creek								1100			700			15800
461	Cochrane Creek				0	0			2000			1000			2840
473	Goose Bay				0	0			15000			<u>49700</u>			40430 <u>4/</u>
476	Shrode Creek				0	0			3000			<u>5200</u>			8840
479	Culross Creek				0	200		400	3000			7000			24580
480	Mink Creek				200	3000		2500	12000			<u>19300</u>			13800
484	East Finger Creek					0		3000	12000			4000			16600
485	West Finger Creek					0		2500	5000			2500			2160
486	Tura Creek					0		500	2500			1500			3880
498	McInure Creek				100	900	2520	4410	5840			7250		2500	15650
	Other Streams (24) <u>2/3/</u>														
DISTRICT TOTAL		400	15,400	35,600	900	2520	119,660	127,900	147,930	154,540	60,730	23,560			338,450
(46 Streams) <u>3/</u>		2,950	32,050	69,770	116,240										

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 4.0. All others calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Dave

TABLE 28e. PRINCE WILLIAM SOUND PINK SALMON, 1964
(Live counts in streams) 1/

Stream No. <u>4/</u>	Stream or Bay	WEEK ENDING										Calculated Season Total					
		<u>7/13</u>	<u>7/19</u>	<u>7/26</u>	<u>8/2</u>	<u>8/9</u>	<u>8/16</u>	<u>8/23</u>	<u>8/30</u>	<u>9/6</u>	<u>9/13</u>		<u>9/20</u>				
510	Ellishansky Creek			3500								2500	<u>1775</u>				13750
	Other Streams (3) <u>2/3/</u>	50	100	800	1500	2450	1900	2100	1200	530	240						4350
DISTRICT TOTAL (5 streams) <u>3/</u>		900	1,850	3,600	5,800	9,500	8,454	5,900	4,600	2,975	1,130	540					18,100

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream numbering system revised in 1962.

Done

TABLE 28F. PRINCE WILLIAM SOUND PINK SALMON, 1964
(Live counts in streams) 1/

Stream No. <u>5/</u>	Stream or Bay	WEEK ENDING										Calculated Season Total					
		7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13		9/20				
603	Ewan Creek									3000							15200
604	Erb Creek									1500							6980
608	Jackpot River			2000						7000							32750 <u>4/</u>
610	Jackpot Bay			1500						1000							3140
612	Jackpot Bay			2500						100							3180
613	Jackson Creek									3500	3000						6700
621	Totemoff Creek									1500							5240
628	Chenega Creek																2500
630	Bainbridge Creek			1000						1200							6420
632	Claw Creek			2200						600							4560
633	Pablo Creek			2500						500							3410
653	Hoge Creek									3500							7580
666	O'Brien Creek			0						1800							8200
670	Montgomery Creek									2200							5220
673	Falls Creek									0							6880
674	Latouche Island									7500							10320
677	Hayden Creek									800							4760
Other Streams (37) <u>2/3/</u>		300	760	1730	2420	3840	6570	8020	9970	11125	6195	2920					21560
DISTRICT TOTAL (55 Streams) <u>3/</u>		3,400	6,560	14,730	20,220	27,740	42,570	59,020	84,270	101,425	53,315	22,570					154,700

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 4.0. All others calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

TABLE 28g.
PRINCE WILLIAM SOUND PINNACLE, 1964
(Live counts in streams) 1/

Stream No. <u>4/</u>	Stream or Bay	WEEK ENDING										Calculated Season Total			
		7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20				
707	MacLeod Creek				1200	300									9330
715	Quadra Creek				3500	3000									23080
720	Glacier Bay		1000			500									3000
723	Montague Island				4500	6500									10400
726	Montague Creek	100	3500		0	450									7180
729	Montague Island					3200									3640
739	Swamp Creek				0	500									2600
740	Kelez Creek				0	1100									2260
741	Chalmers Creek				0	3000									12600
744	Whilby Creek				0	3200									2930
745	Wild Creek				0	2200									3830
746	Schuman Creek				0	1000									5080
747	Cabin Creek				0	3000									3880
749	Shad Creek				0	100									2490
775	Pautzke Creek				0	250									8780
Other Streams (29)	<u>2/3/</u>	580	1640	3045	2200	8940	8650	10050	10650	5720	2820				20840
DISTRICT TOTAL (58 Streams)	<u>3/</u>	600	7,680	13,620	21,695	38,090	40,350	53,650	62,480	48,200	18,395				121,920

1/ Ground counts underlined; others are aerial estimates.
2/ From records maintained on small streams which had a total of less than 2,000.
3/ Contains interpreted data where surveys lacking on certain weeks.
4/ Stream numbering system revised in 1962.

Dover

TABLE 28a

PRINCE WILLIAM SOUND PINK SALMON, 1964
(Live counts in streams) 1/

Done

SOUTHEASTERN DISTRICT

WEEK ENDING

Calculated

Stream No. 5/	Stream or Bay	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	Season Total
806	Dog Salmon Creek	0	2000	1000	8600	24000	22000	19000		<u>12430</u>		26210
812	Muchek Creek	0	1000	1000	5500	21000		22000		<u>71970</u>		34320
815	Constantine Creek	0				3000		3000				93590
817	Deer Creek	0			1000	1500		1500				6120
818	Juania Creek	0			3300			1000				4320
820	Shelter Bay	0						11000				2160
821	Brown Bear Creek	0		450	3500	4500		4000		<u>2960</u>		15940
827	Captain Creek			200	500	4500		13000		<u>6130</u>		7900
828	Cook Creek			100	2500	5000		7000				18310
829	King Creek			0	0	1500		13000		<u>2480</u>		7600
831	Double Creek			0	2200	7500		14000				16870
834	Hardy Creek			0				5000				17600
835	Scott Creek			0	0	4500		5000				5360
837	Dan's Bay			0	0	2500		6060				7800
838	Dan's Bay			0	100	1000		2560				6060
839	Dan's Bay			0	100	4000		12000				2560
844	Makaraka Creek			0	200	3500		14880				14880
846	Hawkins Island			0	7500			11120				11120
847	Hawkins Creek		2000	0	800			17000		3500		16040
849	Rollins Creek			0	500	400		2600				2800
851	Zillesenoff Creek			0	200			2000				2060
856	Cedar Bay			0	1500	200		3000				3440
857	Cedar Bay			0				4000				14000
861	Bernard Creek			50	500	300		6000				7140
862	Clamdiggers Creek			0	300	2500		2680				4/ 2680
Other Streams (24) 2/3/6/			150	3750	4480	6075	6450	5150	3770	1870		11970
DISTRICT TOTAL		2,000	7,550	7,450	72,850	123,180	150,175	191,950	161,650	132,440	53,670	358,850
(52 Streams) 3/												

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 4.0. All others, except one stream with less than 2,000, calculated from stream life factor of 2.5.
- 5/ Stream numbering system revised in 1962. 6/ One stream calculated using factor 4.0.

TABLE 29a. PRINCE WILLIAM SOUND CHUM SALMON, 1964
(Live counts in streams) 1/

Done

Stream No.	Stream or Bay	WEEK ENDING												Calculated Season Total				
		6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6		9/13	9/20		
35	Koppen Creek				1200	18000	9500	4000		230								14790
36	Sheep River				0	400	1300	1000		<u>7350</u>								11080
48	Beartrap River				1000	6800	6500											10340
50	Gravina River				0	0	350	500		3000								4580
51	Olsen Creek				2700	4800	8000	7700										14100
52	Gontrol Creek				200	900	5200	500										3210
80	Whalen Creek					600	1100	1100										2360
87	Sunny Bay				0	0	0	50										9740
89	Fish Creek				200	1100	4000	700										3330
116	Duck River				0	400	4600			9500	15000							21500
117	Indian Creek				5000	8800	9000			2500	2000							16180
123	Gregorieff Creek				300	300	1700											3790
127	Naomoff River				0	0	0											29720
129	Vlasoff Creek				0	1700	200	100		9600	10000							7620
131	Waterfall Creek				0	0	2200	400		400								2060
133	Sawmill Creek				2000	2000	600	500										2030
152	Twin Falls Creek				0	0	500			100								3170
153	Stellar Creek				1000	2000	3000	2000										5440
Other Streams (23)	2/3/	50	200	590	2000	2460	2995	3420	4070	3450	3825	3605	2460	1600	500			11700
DISTRICT TOTAL	3/	500	2900	6200	13490	50260	63395	49120	52320	57110	48050	40525	30040	19200	8930			176840

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Estimates calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Done

TABLE 29b. PRINCE WILLIAM SOUND CHUM SALMON, 1964
(Live counts in streams) 1/

NORTHER DISTRICT		WEEK ENDING											Calculated			
Stream	No. <u>5/</u>	Stream or Bay	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	Season Total <u>4/</u>
214		Log Creek						1000	3300	6700			5000	2000		12560
216		Vaishing Creek						1000	1000	2100						2280
234		Wels River			6500	15000	24000	16000	<u>9400</u>	1500						31700
264		Slush River					1200	2700	4000	2100						5940
276		Blk Bear Creek					1500			800			3000			6640
279		Caron Creek					200			1500						2210
		Other Strms (10) <u>2/3/</u>	20	110	305	625	990	1120	2450	1420	890	390	190	20		3420
		DISTRICT TOTAL	3520	7570	17275	28275	23290	20820	17150	13620	11290	9390	5140	2320		64750
		(23 Streams) <u>3/</u>	2200													

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Estimates calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Done

TABLE 29c.
PRINCE WILLIAM SOUND CHUM SALMON, 1964
(Live counts in streams) 1/

Stream	No. <u>5/</u>	WEEK ENDING												Calculated Season Total <u>4/</u>			
		6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13		9/20		
322		Coghill River			16000	19000		8600	13000								37640
419		Bettles Bay				6500											8120
421		Mills Creek			0			6000	4000								10400
424		Hummer Bay			0	0		2500	300								2480
425		Hummer Creek			0	2200		1500	2000								11880
430		Meacham Creek			4000	12000		3500	500								14680
432		Swanson Creek			2500	8000		5500	5000								15240
450		Tebenkof Creek							1800								2160
454		Halferty Creek				1200		1500	1000								3600
458		Parks Creek							1600								2190
476		Shrode Creek				1000			0								3500
479		Culross Creek				1500		150									3100
484		E. Finger Creek				2000		1500									3860
495		Chimevisky Lagoon				3000											9760
		Other Streams (16) <u>2/3/</u>	280	1500	3170	3250	3005	2300	2405	1715	1050	820	320	120			7980
		DISTRICT TOTALS	800	16830	34020	64150	53605	43250	38105	28515	25650	19370	10220	2370			136590
		(29 Streams) <u>3/</u>	4580														

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Estimates calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Done

TABLE 294. PRINCE WILLIAM SOUND CHUM SALMON, 1964
(live counts in streams) 1/

Stream No. 5/	Stream or Bay	WEEK ENDING												Calculated Season Total 4/
		7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20		
Other Streams (10) 2/ 3/		70	210	450	580	1,020	1,470	1,370	1,210	1,350	820	360	3,560	
DISTRICT TOTALS (10 Streams) 3/		70	210	450	580	1,020	1,470	1,370	1,210	1,350	820	360	3,560	

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Estimates calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Dave

TABLE 29e. PRINCE WILLIAM SOUND CHUM SALMON, 1964
(live counts in streams) 1/

Stream No. <u>5/</u>	Stream or Bay	WEEK ENDING												Calculated Season Total <u>4/</u>	
		7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20				
741	Chalmers River		100		4700	12000									22940
775	Pautzke Creek				4000										4370
	Other Streams (6) <u>2/3/</u>	300	610	720	1045	2825	1600	1400	1300	690	340			4340	
DISTRICT TOTAL (<u>8</u> Streams) <u>3/</u>		450	910	5,220	9,745	16,825	12,600	12,700	12,820	5,390	2,440			31,650	

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Estimates calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

Done

TABLE 29f. PRINCE WILLIAM SOUND CHUM SALMON, 1964
(Live counts in streams) 1/

Stream No. 5/	Stream or Bay	WEEK ENDING												Calculated Season Total 4/	
		7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20			
812	Nuchek Creek			0	800				1000						2280
815	Constantine Creek		100	3000	4000				2000				5000		11260
821	Brown Bear Creek				450				2000						3520
828	Cook Creek				100				2000				100		2590
831	Double Creek					300			1000						2130
839	Dan's Bay					350			2000						3940
	Other Streams (3)	2/3/	250	620	1550	900	850	800	880	1100	700	650	300		3440
DISTRICT TOTAL (14 Streams) 3/			350	880	4,880	6,410	6,700	7,600	8,880	12,600	10,800	8,550	5,250		29,160

- 1/ Ground counts underlined; others are aerial estimates.
- 2/ From records maintained on small streams which had a total of less than 2,000.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Estimates calculated from stream life factor 2.5.
- 5/ Stream numbering system revised in 1962.

TABLE 30. Recapitulation of Weekly Pink Salmon Counts in 1964, by District (Live Counts in Streams) 1/

Done

No. of Streams District	WEEK ENDING												Calculated Season Total	
	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13		9/20
99 Eastern	0	1550	4150	14150	44600	116370	106460	100250	152840	225075	208730	190710	72390	485460
53 Northern	0	0	0	1000	5800	84160	126600	154670	141200	205230	243990	95230	32105	348990
15 Coghill	0	0	500	1500	3130	3700	4700	8100	13485	7235	1900	820	480	18220
46 Northwestern	400	2950	15400	32050	35600	69770	119660	116240	127900	147930	154540	60730	23560	338450
5 Eshamy	0	0	900	1850	3600	5800	9500	8454	5900	4600	2975	1130	540	18100
55 Southwestern	0	0	3400	6560	14730	20220	27740	42570	59020	84270	101425	53315	22570	154700
58 Montague	0	0	0	600	7680	13620	21695	38090	40350	53650	62480	48200	18395	121920
52 Southeastern	0	0	0	2000	7550	7450	72850	123180	150175	191950	161650	132440	53670	358850
383 Prince William Sound Total	400	4500	24350	59710	122690	321090	489205	591550	689470	918940	935915	500275	222510	1844690

1/ The counts were derived from 1250 aerial surveys and 76 ground surveys.

Done

27

Done

TABLE 31. Recapitulation of Weekly Chin Salmon Counts by District, 1964
(Live Counts in Stream) 1/

No. of Streams	DISTRICT	WEEK ENDING														Season Total
		6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	
50	Eastern	500	2900	6200	13490	50260	63395	49120	52320	57110	48050	40525	30040	19200	8930	176840
23	Northern	2200	3520	7570	17275	28275	23290	20820	17150	13620	11290	9390	5140	2320	64750	
29	Northwestern-Coghill	800	4580	16830	34020	64150	53605	43250	38105	28515	25650	19370	10220	2370	136590	
10	Southwestern-Eshamy			70	210	450	580	1020	1470	1370	1210	1350	820	360	3560	
3	Montague				450	910	5220	9745	16825	12600	12700	12820	5390	2440	31650	
14	Southeastern		350	880	4880	6410	6700	7600	8880	12600	10800	8550	5250	29160		
134	Prince William Sound Total	500	14300	38310	103095	162060	138225	133855	138260	113035	103975	83770	49320	21670	442,550	

1/ The counts were derived from 1250 aerial surveys and 76 ground surveys.

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ESHAMY DISTRICT

In expectations of a poor returning red salmon run, the district was closed to fishing in 1964. The returning run was better than expected; however, the magnitude of the red salmon run did not warrant a special opening for the district.

The 1964 spawning escapement to Eshamy Lake is shown by the daily weir counts in Table 32. Counting at the Eshamy River weir began on June 17 and terminated on September 9. A total of 67,729 reds, 1,565 coho, 522 pinks and 9 chum salmon were counted. When the weir was removed, a few salmon were still migrating upstream. A count at the stream mouth showed an estimated 400 red, 300 coho and 300 pink salmon in the bay.

Comparative annual counts by species since 1950 is given in Table 33, which shows the 1964 red salmon spawning escapement is the largest for the years listed. Table 34 shows the cumulative red salmon count from 1950 to 1964. Seasonal case pack by species is given in Table 35.

TABLE 32. Eshamy River Daily Weir Count, 1964

Date	Water Temp.	Water Level	Weather	RED SALMON COUNT			COUNTS OF OTHER SPECIES								
				Daily Count ♂	Jack ♀	Sex Total	Daily Total	Weekly Total	Cumulative Total	COHO ♂ Jack ♀	PINK ♂ Jack ♀	CHUM ♂ Jack ♀			
6/17	40°	.62'	Cloudy												
6/18	40°	.56'	Rain												
6/19	40°	.58'	Rain												
6/20	41°	.55'	Rain												
				Weir in operation			0	0	0	0					
6/21	41°	.59'	Pt. Cloudy												
6/22	41°	.58'	Clear												
6/23	42°	.58'	Clear												
6/24	47°	.58'	Rain & Fog												
6/25	48°	.57'	Rain												
6/26	47°	.55'	Rain												
6/27	47°	.57'	Pt. Cloudy	5			2		7	7	7	7			
6/28	47°	.54'	Rain												
6/29	49°	.53'	Rain												
6/30	50°	.56'	Rain	1					1	1	1	1			
7/1	47°	.60'	Cloudy												
7/2	47°	.61'	Rain	1					1	1	1	1			
7/3	46°	.65'	Rain												
7/4	47°	.65'	Rain												
7/5	47°	.60'	Rain												
7/6	48°	.55'	Cloudy	3			1		4	4	4	4			
7/7	50°	.50'	Clear												
7/8	50°	.49'	Rain	11			4		15	15	15	15			
7/9	52°	.45'	Cloudy	51			1		40	92	92	92			
7/10	49°	.41'	Rain	628			13		462	1,103	1,103	1,103			
7/11	51°	.39'	Rain	11			1		7	19	19	19			
				8			1		2	11	11	11			
													1,244		
														1,253	
7/12	51°	.36'	Cloudy	16			4		9	25	25	25			
7/13	56°	.35'	Clear	115			2		52	171	171	171			
7/14	56°	.31'	Clear	294			4		203	499	499	499			
7/15	57°	.29'	Clear	67			3		18	88	88	88			
7/16	56°	.28'	Clear	39			3		27	67	67	67			
7/17	56°	.25'	Cloudy	194			1		151	354	354	354			
7/18	59°	.20'	Rain	45			3		48	96	96	96			
													1,300		
														2,553	

Done

TABLE 32, continued

Dove

Date	Water Temp.	Water Level	Weather	RED SALMON COUNT			COUNTS OF OTHER SPECIES					
				Daily Count ♂	Jack ♀	Sex Daily Total	Weekly Total	Cumulative Total	GOHO ♂	PINK ♀	CHUM ♂	
7/19	58°	.18'	Cloudy	36	1	28	65					
7/20	60°	.15'	Clear	144	2	86	232					
7/21	60°	.14'	Clear	309	3	217	529					
7/22	59°	.14'	Rain	170	3	149	322					
7/23	58°	.14'	Rain	11		7	18					
7/24	56°	.15'	Rain	98	13	105	217					
7/25	59°	.18'	Clear	43		29	72	1,455	4,008			
7/26	58°	.17'	Cloudy	39		40	79					
7/27	58°	.14'	Cloudy	247	3	241	491					
7/28	58°	.12'	Clear	409	6	343	758					
7/29	57°	.09'	Clear	101	1	51	153					
7/30	59°	.08'	Fair	237	3	209	449					
7/31	60°	.06'	Cloudy	115	4	111	230					
8/1	59°	.04'	Rain	68	3	47	118	2,278	6,286	1		1
8/2	60°	.03'	Cloudy	101	5	76	182			1		
8/3	60°	.03'	Cloudy	14		17	31					
8/4	60°	.02'	Rain	118	4	85	207					
8/5	60°	.01'	Rain	126	4	70	200					
8/6	59°	.01'	Rain	69	1	21	91					
8/7	60°	0.0'	Fair	113	5	88	206					
8/8	60°	-.02'	Fair	151	10	131	292	1,208	7,495			
8/9	60°	-.01'	Rain	167	8	142	317					
8/10	57°	.08'	Rain	73	9	67	149					
8/11	56°	.28'	Rain	344	20	332	696					
8/12	55°	.38'	Rain	770	11	739	1,520					
8/13	55°	.38'	Rain	1,142	41	1,147	2,330					
8/14	55°	.38'	Pt Cloudy	592	19	590	1,201					
8/15	55°	.37'	Fair	565	67	629	1,261	7,474	14,969	4		5

TABLE 28, continued

Dove

Date	Water Temp.	Water Level	Weather	Daily Count by Jack	by Spr	RED SALMON COUNT		COUNTS OF OTHER SPECIES										
						Daily Total	Weekly Total	Cumulative Total	♂	♀	PINK JACK	♂	♀	CHOW				
8/16	55°	.34'	Cloudy	212	28	270	510											
8/17	56°	.30'	Rain	345	50	690	1,085											
8/18	55°	.36'	Rain	361	100	579	1,040											
8/19	54°	.51'	Rain	921	248	1666	2,835											
8/20	54°	.48'	Rain	1,072	243	1305	2,620											
8/21	54°	.46'	Cloudy	923	256	1079	2,258											
8/22	54°	.42'	Rain	34,5%	14,5%	5,1%	5,000+-	15,348	30,317									
8/23	53°	.88'	Rain	46%	8%	46%	10,000+-											
8/24	53°	.87'	Fair	45%	10%	46%	2,416											
8/25	54°	.68'	Fair	1,467	269	1525	3,261											
8/26	54°	.62'	Fair	1,005	216	1307	2,528											
8/27	54°	.47'	Cloudy	1,720	270	1990	3,980											
8/28	53°	.44'	Rain	42%	8%	50%	6,000+-											
8/29	52°	.40'	Fair	44%	8%	48%	4,000+-	32,185	62,502									
8/30	53°	.34'	Rain	486	36	665	1,187											
8/31	55°	.28'	Clear	452	30	548	1,030											
9/1	52°	.26'	Clear	122	13	103	238											
9/2	53°	.19'	Clear	412	28	275	715											
9/3	53°	.17'	Fair	513	21	308	842											
9/4	54°	.15'	Fog	166	7	103	276											
9/5	55°	.11'	Fair	228	13	181	422	4,710	67,212									
9/6	54°	.08'	Fair	67	4	32	103											
9/7	54°	.07'	Fair	128	5	47	180											
9/8			Fair	34	1	17	52											
9/9			Fair				183	518	67,729									
TOTALS							67,729											
1/ Weir was removed at 09:30. At this time there was in the bay at the creek mouth approximately 400 Red Salmon, 300 Silver Salmon and 300 Pink Salmon.							1,565											
							522											

1/ Weir was removed at 09:30. At this time there was in the bay at the creek mouth approximately 400 Red Salmon, 300 Silver Salmon and 300 Pink Salmon.

Done

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TABLE 33. Eshamy River Weir Count, 1950-1964

Year	Reds	Pinks	Cohos	Chums	Kings
1950	30,370	421	971	0	0
1951	62,661	5,515	1,518	0	0
1952	42,859	119	51	0	0
1953	4,588	718	185	0	0
1954	1,437	418	15	0	0
1955	13,036	6,611	1,505	717	0
1956	46,863	1,166	117	14	2
1957	51,308	4,031	400	16	0
1958	5,224	273	27	3	0
1959	6,908	674	256	0	0
1960	13,515	250	132	0	0
1961	47,275	15,299	57	0	0
1962	9,390	738	1,677	291	0
1963	3,092	2,459	232	0	0
1964	68,129	822	1,825	9	0
1965	108,953	5441	532	6	0
<hr/>					
TOTAL	406,655 515,619	39,514 44,955	8,968 9,500	1,050 1,056	2
<hr/>					
AVERAGE	27,110 30,330	2,634 2,644	598 559	70 62	0

Done

TABLE 34.

Eshamy River Red Salmon Weekly Cumulative Weir Counts, 1950-1964

419
QWMAK summary

Done

1955-1965

Week Ending	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
6/30	31	305		77							52	2183	1096		8	0
7/7	2731	305		23	2	0	--	61	109	48	1308	3421	1441	116	28	0
7/14	3626	601		120	19	0	782	479	245	371	3220	4317	1768	168	1948	885
7/21	6522	896	676	145	148	482	7207	510	1123	502	4633	5381	1877	195	3379	1055
7/28	7704	1247	3778	148	176	505	8802	690	1588	852	6214	6209	2024	211	5336	5710
8/4	9262	2281	17310	475	242	1412	12631	842	2183	1450	7316	7438	2132	222	6706	8271
8/11	10624	18962	23486	987	339	4198	21720	922	2909	3960	8252	21412	3704	546	8657	11251
8/18	10813	22616	28079	3006	683	8243	37018	2064	4030	5858	10509	31580	5538	716	17604	28288
8/25	25089	26420	29545	4019	949	11914	41467	27625	4796	6908	12209	38474	7450	2063	45994	41965
9/1	29137	46671	31011	4410	1417	12936	44977	45170	5198	--	13217	45072	8720	2588	65672	51156
9/8	30370	62426	42639	4588	1437	13036	46750	50658	5224	--	--	46400	9297	3064	67730	53051
9/15	--	62661	42859	--	--	--	46863	51308	--	--	--	47275	9390	3092	--	90438
TOTAL	30370	62661	42859	4588	1437	13036	46863	51308	5224	6908	13217	47275	9390	3092	67730	108963

Done

90438
108963

Done

TABLE 35. Eshamy District Salmon Case Pack, 1950-1964 1/

Year	Reds	Pinks	Chums	Cohos
1950	2,231	1,109	497	78
1951	6,530	2,990	1,194	158
1952	3,594	525	359	72
1953 <u>2/</u>	1,319	2,515	1,144	107
1954	654	746	695	56
1955	1,346	1,795	550	63
1956	7,997	1,713	1,497	88
1957	3,775	1,469	1,632	80
1958	SEASON CLOSED			
1959	SEASON CLOSED			
1960	SEASON CLOSED			
1961	5,490	7,093	2,335	148
1962	2,183	3,164	3,726	318
1963	SEASON CLOSED			
1964	SEASON CLOSED			
1965	299	9	26	1
<hr/>				
TOTAL	35,119	23,119	13,629	1,168
<hr/>				
AVERAGE <u>3/</u>	3,512	2,312	1,363	117

1/ 48/1# cans per case.

2/ One seiner made one delivery of Prince William Sound fish to the Eshamy cannery and several set nets fished outside the Eshamy District during the Prince William Sound season but delivered their fish to the Eshamy cannery. All of these fish were included in the Eshamy pack.

3/ Average of years fished. Except, 1965 which was opened by emergency order.

ford

COGHILL DISTRICT

The 1964 Coghill district drift gill net salmon fishery is summarized in Table 36. Comparative catch data is presented in Table 37. Fishing commenced during week 25 and continued until week 29 when the fishermen entered other salmon fisheries.

The total catch increased in 1964 compared to previous years, (Table 37). However, the average catch is down from 1961 and 1963 because of the increased number of units fishing. The fishing effort in 1964 more than doubled the previous year and was probably due to expectations of a large run of red salmon.

TABLE 36.

Coghill District Drift Gillnet Fishery Statistics, 1964 1/

Week	CATCH					CASE PACK <u>2/</u>					Units of Gear
	Reds	Pinks	Chums	Cohos	Kings	Reds	Pinks	Chums	Cohos	Kings	
25	421	0	0	0	0	31	0	0	0	0	6
26	7,442	1,072	747	1	2	550	48	91	0	0	57
27	12,352	2,848	1,679	1	2	914	127	204	0	0	59
28	8,649	1,870	2,041	0	2	640	84	248	0	2	53
29	0	0	189	0	0	0	0	23	0	0	
TOTAL	28,864	5,790	4,494	2	6	2,135	259	566	-	2	

1/ 1961 was the first season for drift gill net fishing in the Coghill district. No catches were reported from the Unakwik district drift gill net area in 1964.

2/ Case pack determined using Prince William Sound fish per case average.

TABLE 37.

Coghill District Drift Gill Net Comparative Effort and Catch, 1961, 1962, 1963 and 1964

One

YEAR	Reds	Pinks	Chums	Cohos	Average Units of Gear
------	------	-------	-------	-------	-----------------------

1961	12,961	10,019	2,412	13	25
------	--------	--------	-------	----	----

1962	13,816	2,241	4,817	15	41
------	--------	-------	-------	----	----

1963	16,965	2,689	5,265	20	19
------	--------	-------	-------	----	----

1964	28,364	5,790	4,494	2	44
------	--------	-------	-------	---	----

1965*	22,935	1,905	4,363	18	19
-------	--------	-------	-------	----	----

TOTAL	92,636	20,739	16,988	50	
	95,491	22,644	21,251	68	

AVERAGE	18,159	5,185	4,247	13	
	19,701	4,529	4,270	13	

In 1965, some seines also fished the Coghill district. The ~~Reds~~ ~~Chums~~ ~~Cohos~~ ~~and~~ ~~gill~~ ~~net~~ ~~catch~~ ~~is~~ ~~shown~~ ~~in~~ ~~Table~~ ~~37~~.

One

SUBSISTENCE FISHERY

Each year a considerable number of salmon are taken in the subsistence fishery from waters of Prince William Sound and Copper River. The major subsistence fishery is for red salmon on the upper Copper River, between Chitina and Gakona. The 1964 fishery is summarized in Table 38 which shows that red salmon is by far the most important salmon in the fishery.

Each year since 1960 information has been collected from the fishery in an attempt to determine the magnitude of the catch and its impact on the spawning populations.

Historical data since 1948 is shown in Table 39.

TABLE 38. SUBSISTENCE FISHING, 1964 1/

AREA	Permits Issued	Type of Gear	Unsuccessful Fishermen	Unused Permits	Reds	Kings	Cohos	Pinks	Chums	Other 2/
Upper Copper River	158	Fishwheel	7	8	7403	346	80			414
Upper Copper River	794	Dipnet	91	71	3813	320	1			77
Upper Copper River	8	Gill net *		1						
Upper Copper River	42	Fishwheel & (or) Dipnet	1	2	699	59	22			16
Lower Copper River	2	Dipnet			20	3				
Copper River Delta	5	Gill net		2		14				
Eyak Lake	2	Gill net *								158
Prince William Sound	14	Gill net	3	4		11				100
Prince William Sound	1	Purse Seine								800
TOTALS	1,026		102	88	11,946	742	103	900	—	665

* 7 Upper Copper River permittees did not submit a report. One Eyak Lake permit was renewed. These permits were issued for the taking of whitefish. Compiled from reports received through February 11, 1965.

1/ Includes whitefish, grayling and lamprey.

2/ 41 dipnet and 2 fishwheel reports were marked "none" and did not indicate if fishing was attempted. 71 permits are not accounted for. 342 are delinquent.

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TABLE 39.

Subsistence Fishery, Upper Copper River, 1948 - 1964 1/ 5/

Year	Number of Fishermen	Reds	Kings	Cohos	Pinks	Chums	Other 5/	Unknown	Total
1948 2/								5,100	5,100
1949 2/								5,500	5,500
1952 3/		1,601	535						2,136
1954 4/		3,057	88				1		3,145
1955 7/		1,767	319						2,086
1957 3/		7,241	281	108			123		7,753
1960	60	6,739	136	25	15	167	100		7,182
1961	194	15,472	388	550	188	88	639	87	17,412
1962	375	14,543	848	381	50	49	3	148	16,022
1963	295	14,055	464	558	52*	48*	23	—	15,200
1964	1,002	11,915	725	103	0	0	507	—	13,250
1908	1,000	10,000	500	500			400		14,400

1/ Data from years 1948, 1949, 1952, 1957, 1960 to 1964. Other years not reported.

2/ Estimated catches probably obtained by interview.

3/ Reported catch.

4/ Data from sample checks of fishwheels. Observations of fish in boxes of wheel, drying racks and reports of fishermen.

5/ Includes rainbow, whitefish, lamprey, grayling and steelhead.

6/ Refer to individual annual reports for information concerning delinquent reports and permittees who indicated they did not fish.

7/ Estimated catches obtained by interview from 13 fishwheel fishermen.

* No record or knowledge of upper Copper River ever having pinks and chums. These in catch reports.

Done
RAZOR CLAMS

The 1964 razor clam harvest of 89,275 pounds represented another poor season. There was no major canning operation because of the poor show of clams on the digging areas, and for other, probably political and economic reasons.

The bulk of the clams (84%) were utilized as dungeness crab bait. As bait, razor clams were worth 25 cents per pound from the first of January to mid March, after which the price was 20 cents per pound. This price was paid the clam diggers for clams delivered to the crab cannery.

Spawn survival during the winter of 1963-1964 again appeared to be poor as indicated by the results from a limited number of screening samples. Less than one young clam per square meter was obtained.

The earthquake of March 27 caused a lifting of the entire razor clam areas of about $6\frac{1}{2}$ feet. This rise put roughly 25% of the Copper River Delta razor clam beds above the level at which the clams can survive. The rise of land did not make additional area available to commercial harvest. On the outside edge of the Delta and in the Controller Bay areas, the loss of habitat was offset by more exposed clam habitat.

The show of commercial sized clams in 1964 was slightly better than in 1963.

TABLE 40. Razor Clam Statistics, 1931-1964 1/

Prince William Sound and Copper-Bering River Areas

Done

Year	SPRING				FALL		TOTAL	
	Dig Live Weight	Cases 1/	No. of Diggers	Man/Tides Dug	Dig Live Wt.	Cases	Dig Live Wt.	Cases
1931	1,357,114	34,532 4/	214	7,522	No Record			
1932	1,833,358	46,666			No Record			
1933	845,746	18,668			No Record			
1934	938,612	24,279		3,810	295,227	7,122	1,233,836	31,401
1935	826,421	22,308		4,024	No Record			
1936	957,549	21,465		3,737	No Record			
1937	1,111,594	26,566	223	3,989	312,339	7,154	1,423,933	33,720
1938	1,270,566	31,553	269	4,881	45,065	799	1,315,631	32,352
1939	1,322,447	29,920	253	4,534	218,160	4,965	1,540,607	34,885
1940	1,449,299	41,075	305	6,703	No Record			
1941	792,165	20,246	145	2,943	111,296	2,623 5/	906,461	22,896
1942	1,327,390	40,912	202	2,624	No Record			
1943	1,583,989	45,916	184	3,721	87,613	2,482	1,671,602	48,398
1944	1,638,994	46,752	162	3,967	8,739	194	1,647,733	46,946
1945	1,611,328	41,998	188	4,099	46,394	1,142	1,657,722	43,140
1946	1,626,226	47,430	190	4,922	119,977	3,194	1,746,203	50,624
1947	579,482	17,605	160	1,772	27,058	588	606,540	18,193
1948	1,121,074	31,941	220	3,927	33,829	784	1,154,903	32,725
1949	1,449,778	40,735	350	5,262	28,477	670	1,478,252	41,405
1950	1,464,532	38,482	370	5,524	55,884	1,294	1,520,416	39,776
1951	1,501,074	38,310	347	5,344	34,045	645	1,535,119	38,995
1952	1,256,287	31,879	204 8/	3,925 8/	9,143	220	1,265,430	32,099
1953	1,485,937	39,184	306 8/	5,286 8/	None		1,485,937	39,184
1954	1,216,758	31,478	189 8/	5,165 8/	Almost None			
1955	1,372,829	36,071	333 8/	6,377 8/	4,280	70	1,377,109	36,141
1956	703,659	21,477	201 8/	3,053 8/	3,690		707,349	21,571
1957	1,017,418	27,774	268 8/	5,743 8/	Almost None		1,017,418	27,774
1958	32,395	831	Strike		None		32,395	831
1959	507,731	13,017	183	3,196	Almost None		507,731	13,017
1960	433,930	10,367	284		None Reported		433,930	10,367
1961	259,250 2/	6,868	111		2,378 (Bait)		261,628	6,940
1962	208,284 3/	5,300	201		414 (Bait)		208,568	5,307
1963	86,340 6/				None		86,340	
1964	89,202 7/				73 (Fresh Market)		89,275	
Total	36,717,379	931,605						

Average 1,079,921 27,400

- 1/ Case pack on basis of 48- $\frac{1}{2}$ pounds per case.
- 2/ Includes 28,973 pounds used for bait.
- 3/ Includes 41,425 pounds used for bait.
- 4/ Estimated on basis of 39.3 pounds live weight per case.
- 5/ In addition 27 number 10 cans were packed.
- 6/ Includes 80,065 pounds used for bait.
- 7/ Includes 75,073 pounds used for bait.
- 8/ Major canner only.

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TABLE 41. Razor Clam Statistics, 1964
 (All Areas)

Done

Week	Total Beach Weight	Pounds Canned or Used Fresh	Pounds Crab Bait	Landings 1/
4	50		50	1
10	1,688		1,688	5
11	1,771		1,771	9
12	588		588	2
13	2,339	60	2,279	16
14	218		218	1
15	6,707	180	6,527	29
16	27,632	905	26,727	102
17	2,755	120	2,635	9
18	11,634	1,540	10,094	40
19	4,787		4,787	17
20	4,446	740	3,706	19
21	3,707	1,350	2,357	10
22	1,071		1,071	3
23	2,158	675	1,483	8
24	4,991	660	4,331	18
25	4,054	4,054	---	17
26	5,462	3,198	2,264	22
27	2,124	200	1,924	8
28	360	360		1
32	212		212	1
33	448	87	361	4
37	73	73		2
Totals	89,275	11,202	75,073	344

1/ Landings do not represent individual daily digs as most landings were two or more days of effort.

DUNGENESS CRAB

Done

The 1964 catch is the largest in the history of the Cordova area crab fishery and exceeded the next largest year, 1963, by about one hundred sixty thousand pounds.

The catch per unit of effort has not increased and the increased production is a result of the crab cannery being on a year around operation instead of the short canning season of the past.

During the fall season, a limit of 1,500 pounds per boat, every other day, was placed on the crab fishermen.

Done

TABLE 12. ⁴⁶ Dungeness Crab Catch from Prince William Sound, Copper and Bering River Areas, 1951 - 1964 ²⁷

Dund

Year	OUTSIDE		INSIDE ^{6/}		TOTAL		Value in Dollars
	Crab	Pounds	Crab	Pounds	Crab	Pounds	
1951	729,630	1,459,260	608,939	1,217,878	1,338,569	2,677,138	\$ 227,556.73
1952	3/				509,288	1,018,576	85,578.96
1953	3/				627,942	1,255,884	105,750.14
1954	3/				752,855	1,505,710	120,456.80
1955	567,500	1,135,000	414,914	829,829	982,414	1,964,829	157,186.32
1956	4/		406,422	812,844	406,422	812,844	65,027.52
1957	4/		108,562	217,123	108,562	217,123	10,856.15
1958	4/		596,459	1,192,918	596,459	1,192,918	71,575.08
1959	4/		576,749	1,153,499	1,247,143	2,494,287	199,542.96
1960	670,394	1,340,788	762,163	1,524,326	1,361,235	2,722,470	272,247.00
1961	599,072	1,198,144	495,121	990,242	1,378,097	2,756,194	275,619.40
1962	882,976	1,765,952	676,595	1,353,190	1,321,887	2,643,775	317,253.00
1963	645,292	1,290,585	608,423	1,216,846	1,505,106	3,234,383	431,256.07
1964	896,683	2,017,537	614,728 ^{8/}	1,290,929	1,516,978	3,393,171	453,339.00
1964	902,250 ^{5/}	2,102,242					
Totals	5,893,797	12,345,508	5,868,875	11,799,624	13,652,957	27,889,302	\$2,795,245.13
Average	736,725	1,543,188	533,534	1,072,693	975,211	1,992,093	\$ 199,660.36 ^{1/}

1/ Average value at 1964 prices would be \$266,179.43.
 2/ Pounds reported in live weight. A two pound average weight was used to convert pounds to crab 1951 to 1962. Crab have been sold by the pound since 1951.
 3/ No record these years of where crab were caught.
 4/ No "outside" fishing these years.
 5/ Pounds converted to crab on basis of 2.25 pounds per crab.
 6/ The area designated as "inside" is located in the southeast corner of Prince William Sound and is described in the 1964 Commercial Fishing Regulations. The majority of the crab from the "inside" area are taken in Orca Inlet.
 7/ Basis of 2.1 pounds per crab.
 8/ Basis of 2.33 pounds per crab.

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 TABLE 43. Dungeness Crab, Weekly Catch and Value, 1964

Donep

Week	Spring Lbs. (Inside)	Summer Lbs. (Outside)	Approx. No. of Crabs 2/	Landings	Value in Dollars 1/	Icy Bay Yakutat Area 3/
3	50,201		23,907	43	7,028.56	
4	27,664		13,174	32	3,872.96	
5	19,122		9,106	30	2,677.08	
6						
7						
8	16,586		7,898	26	2,322.04	
9	13,454		6,407	30	1,883.56	
10	17,417		8,294	31	2,438.38	
11	10,210	365	5,018	25	1,480.50	
12	3,977		1,894	9	556.78	
13	5,166		2,460	19	723.24	
14	1,265	1,118	1,081	6	333.62	
15	1,621	2,275	1,747	10	545.41	
16	8,333	17,131	11,311	31	3,564.96	
17	4,908	27,724	14,170	24	4,568.48	
18	4,587	57,386	26,781	39	8,676.22	6,333
19	3,815	44,784	21,013	39	6,803.86	21,717
20	6,271	38,095	19,315	39	6,211.24	
21	7,199	42,351	21,581	31	6,937.00	23,412
22	2,783	57,742	26,075	32	8,473.50	22,787
23	1,100	104,093	45,141	37	14,727.02	
24		98,125	42,059	25	13,737.50	
25		112,544	48,240	32	15,756.16	
26		130,576	55,969	32	18,280.64	
27		46,834	20,074	9	6,556.76	
28		216,396	92,754	39	30,295.44	
29		202,101	86,627	39	28,294.14	
30		163,068	69,896	37	22,829.52	15,000
31		253,243	108,548	49	35,454.02	
32		180,281	77,274	39	25,239.34	14,146
33		211,609	90,702	36	29,625.26	
34		17,522	7,510	14	2,453.08	
35		76,879	32,953	42	10,763.06	

continued next page

TABLE 43, Dungeness Crab, Weekly Catch and Value, 1964, continued

Done

Week	Spring Lbs. (Inside)	Summer Lbs. (Outside)	Fall Lbs. (Inside)	Approx. No. of Crabs 2/	Landings	Value in 1/ Dollars	Icy Bay 3/ Yakutat Area
36			89,220	42,487	34	10,706.40	
37			100,142	47,688	42	12,017.04	
38			119,747	57,024	51	14,369.64	
39			118,503	56,431	48	14,220.36	
40			138,224	65,822	53	16,586.88	
41			123,246	58,690	50	14,789.52	
42			117,427	55,919	59	14,091.24	
43			76,821	36,582	49	9,218.52	
44			61,809	29,433	48	7,417.08	
45			59,127	28,156	47	7,095.24	
46			45,999	21,904	34	5,519.88	
47			15,823	7,535	18	1,898.76	
48			9,177	4,370	12	1,101.24	
49			9,982	4,753	14	1,197.84	
<hr/>							
Totals	205,682	2,102,242	1,085,247	1,515,773	1,485	\$453,339.00	103,395
<hr/>							
Values	\$28,795.48	\$294,313.88	\$130,229.64			\$453,339.00	\$14,475.30
<hr/>							
Total value of all Cordova landings, \$467,814.30							

- 1/ Basis 14 cents per pound through Week 35; 12 cents per pound, Week 36 to end of season.
- 2/ Average weight per crab: Inside crab, 2.1 pounds; Outside crab, 2.33 pounds.
- 3/ Landed in Cordova by Cordova fishermen. These figures are not included in other columns.

MISCELLANEOUS SHELLFISH

Done

The king crab fishery of Prince William Sound was a minor operation in 1964. Two boats fished a small string of king crab pots in conjunction with their main occupation of dungeness crab fishing. Table 44, shows the 1964 catch data.

The shrimp fishery consisted of an experimental beam trawl fishery for the large "spot" shrimp. Low market price and the difficulty of obtaining the large sized shrimp limited this fishery.

done

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TABLE 24.

Miscellaneous Shellfish Catch, 1964

Dome

Week	KING CRAB 1/			SHRIMP 2/			
	Number Crab	Number Pounds	Landings	Area	Pounds	Landings	Area 3/
3	147	966	2	Orca			
4	81	614	1	"			
5	17	87	1	"			
6							
7							
8	5	34	1	"			
9	42	353	1	"	724	3	229-10
10	31	262	1	"	700	2	"
11	19	180	1	"	700	2	"
12							
13	60	522	2	"			
14	18	140	1	"			
15	45	388	2	"			
16	100	943	3	"			
17	94	914	1	Sheep Bay			
18	44	403	2	"			
19	90	793	2	Orca			
20	109	930	1	"			
21	45	390	1	"			
22							
23	141	1148	2	Sheep Bay			
24	138	1364	1	"			
25	248	2072	2	"			
26	42	334	1	"			
27							
28	107	803	1	"			
29	51	383	2	"			
TOTAL	1,774	14,028			2,124	7	

1/ Average weight per crab 7.9 pounds. 2/ Experimental beam trawl fishing operation.
 3/ Area designation for shellfish only. Refer to area chart for shellfish.

Done

COMMERCIAL FISHING LICENSE SALES

License receipts for 1964 commercial fishing were below the past two seasons and probably reflect the prediction of a moderate run of pink salmon in Prince William Sound. Comparisons of the number of each type of license by residency is presented in Table 46.

The 1964 commercial fishing license sales and receipts are summarized in Table 45. Licenses were sold in Cordova at the Department's office and by a local vendor. A vendor in Valdez sold only the personal commercial fishing license. From 1960 to 1963, the Department was the sole vendor of vessel and gear licenses in the Cordova management area. The gradual change in licensing procedures and requirements now permits the participation in sales of all types of licenses by vendors.

Done

Done

TABLE 46. Comparative Commercial Fishing License Statistics, Cordova Area, 1960 - 1964

TOTAL COMMERCIAL FISHING LICENSES	1960	1961	1962	1963	1964	1965
FISHERMEN						
Resident	601	497	621	728	541	588
Nonresident	<u>566</u>	<u>247</u>	<u>470</u>	<u>574</u>	<u>304</u>	<u>31</u>
	1167	744	1091	1302	845	897
VESSEL LICENSES						
Resident	493	452	525	590	477	455
Nonresident	<u>312</u>	<u>196</u>	<u>281</u>	<u>327</u>	<u>214</u>	<u>199</u>
	805	648	806	917	691	650
GEAR LICENSES						
Resident Troll Line	15	9	6	9	9	3
Nonresident Troll Line	<u>1</u>	<u>-</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>0</u>
	16	9	8	10	12	3
Resident Set or Long Line	6	7	11	13	15	10
Nonresident Set or Long Line	<u>2</u>	<u>-</u>	<u>3</u>	<u>5</u>	<u>2</u>	<u>3</u>
	3	7	14	18	17	13
Resident Drift Gill Net	263	295	315	375	282	298
Nonresident Drift Gill Net	<u>167</u>	<u>127</u>	<u>170</u>	<u>202</u>	<u>133</u>	<u>132</u>
	430	422	485	577	415	430
Resident Set Gill Net	7	42	40	17	23	36
Nonresident Set Gill Net	<u>7</u>	<u>8</u>	<u>18</u>	<u>1</u>	<u>2</u>	<u>5</u>
	14	50	58	18	25	41
Resident Purse Seine	142	97	163	189	167	157
Nonresident Purse Seine	<u>92</u>	<u>23</u>	<u>75</u>	<u>98</u>	<u>65</u>	<u>40</u>
	234	120	238	287	232	197
Resident Shellfish Pots	34	46	49	36	32	24
Nonresident Shellfish Pots	<u>14</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>9</u>	<u>5</u>
	48	63	67	55	41	29
Resident Clam Diggers	206	165	125	94	105	91
Nonresident Clam Diggers	<u>78</u>	<u>61</u>	<u>38</u>	<u>19</u>	<u>16</u>	<u>11</u>
	284	226	163	113	121	102
Resident Otter Trawl	-	-	2	-	-	0
Resident Beam Trawl	-	-	-	1	2	3

COPPER - BERING RIVER SALMON SPAWNING ESCAPEMENTS

The 1964 estimated red salmon escapement in the Copper-Bering River district was the poorest during the last five years in which effort has been made to obtain reliable data.

Salmon spawning escapement estimates (Tables 47, 48 and 49), were obtained by both aerial and foot surveys. Survey crews spent considerable time in all areas where there was known or expected salmon spawning.

In comparison, using only those systems for which complete data is available, the 1964 spawning escapement was about one-half of the last four years average (Table 50). Total estimated escapement is not comparable as more systems have been counted each year as they are discovered.

TABLE 47.

Estimated Spawning Escapement of Salmon, Bering River District, 1964

	RED SALMON		COHO
	Estimated Escapement	Actual Ground Count	Estimated Escapement
Bering Lake	400	352	
Dick Creek	2,800	1,519	1,500
Shepard Creek	3,400		
Carbon Creek	600		
Lake Charlotte	0	0	
Oh & Bee Lakes	0		
Kushtaka	800	400	500
Shokum Creek	650	252	
Stillwater Creek			
Trout Creek	50		0
Clear Creek	1,500		800
Grandel River			
Nichawk River	100		
Okalee River			
Edwards River			
Campbell River			
Katella Creek	50	39	8,000
Kahuntla Creek	0		600
Total	10,350		

Done

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TABLE 48. Estimated Salmon Spawning Escapement
Lower Copper River Delta Area, 1964 1/

System	Red Salmon				Actual Ground Count	Coho Season
	Total	Early	Middle	Late		
Eyak Lake	11550	4300	3550	3700	6805	4000
Hatchery Creek	2000	300	0	1700	1897	300
Scott Lake	525	25	0	500		
Bear Lake	20	0	0	20		
McKinley Lake	550	0	300	250	234	
Salmon Creek	920	0	800	120	836	800
25.6 Mile Creek	600	600	0	0	456	
27 Mile Creek	30	30	0	0	30	
39 Mile Cr. (Clear Cr.)	1850	0	250	1600	360	400
Goat Mountain Creek	1100	0	1100	0	1105	5300
Deadwood Lake	35	0	35	0		300
Tokun Lake	8900	0	400	8500		200
Little Martin Lake	650	0	150	500		
Martin Lake	4260	1800	660	0	3950	
Pothole Lake	2400	0	0	2400	1771	1100
Ragged Point Lake	300	0	0	300		
Martin River Slough	2650	2650	0	0	150	14000
Ibek Creek	0					1950
14 to 15 Mile Sloughs	0					1700
19 Mile Creek	0					50
Pleasant Creek	0					8000
TOTALS	38,340	9,705	7,245	19,590	17,594	38,100

1/ Estimated on basis of counts from the ground and air.

Done

Done

TABLE ¹⁹ 49. Estimated Spawning Escapement of Red and King Salmon
Upper Copper River, 1964

System	Red Salmon		King Salmon	
	Estimated Escapement	Actual Count	Estimated Escapement	Actual Count
Bremner Lake	150			
Peninsula Lake	300			
Little Bremner River	0			
Salmon Creek	250			
Tiekel Lake	100			
Long Lake	3500			
Gibraltar Hill	- 1/			
Tanada Lake	1500			
Copper Lake	1500			
Suslota Lake	0			
Mentasta Lake	800			
Selana River	30			
Mankomen Lake	50			
East Fork Chistochina	12	12	35	6
Gun Creek	60	55		
Fish Lake	2500	1028		
Summit Lake	0			
<u>Gulkana River</u>				
Summit L. to Paxson	6000	1234		
Paxson-Mud Cr.-Lake	8000	5686		
Paxson L. Outlet	2800			
Middle Fork	60		100	16
Swede Lake	0			
Dickey Lake	0		36	15
West Fork Gulkana River	0		425	364
Oldman Lake	360			
Mendeltna Creek	400			
Tazlina Lake	-			
Kiana Creek	300		200	44
St. Anne Creek	1500			
Klutina Lake	-			
Mahlo Creek	150			
Manker Creek	0			
<u>Tonsina Lake</u>	-			
Grayling Creek	-			
Little Tonsina Creek	-			
Sinona Creek	0			
Indian River	0			
Ahtell Creek	0			
Chitina Lake	0			
TOTAL	30,310		796	

1/ - no fish seen or not counted.

Dove

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TABLE 50. Comparable Estimated Red Salmon Spawning Equipment on Selected Systems, Copper-Bering River Districts, 1961 -- 1964

System	1961	1962	1963	1964
Eyak Lake		20,200	17,900	13,550
McKinley Lake		4,200	2,900	1,470
39 Mile		1,800	2,400	1,850
Tokum Lake		8,000	10,000	8,900
Little Martin		1,880	1,450	650
Martin Lake		8,400	9,900	6,600
Martin River Sl.		5,400	8,280	2,650
Copper Delta Subtotal		49,880	43,830	35,670
Bering Lake		200	15	400
Dick Creek		16,000	4,500	2,700
Kushtaka Lake		2,100	1,580	1,450
Clear Creek		2,200	1,800	1,500
Trout Creek		250	150	50
Bering Subtotal		20,750	8,045	6,100
Mentasta Lake	850	2,000	10,050	800
Gulkana River	47,200	46,318	39,240	16,800
St. Anne Creek	2,050	2,250	1,950	1,500
Mahlo Creek	5,500	270	6,530	150
Manker Creek		0	10	0
Bad Crossing	4,500	1,385	70	30
Mendeltna Lake	1,150	4,650	11,940	760
Upper Copper Subtotal	61,250	56,873	69,790	20,040
Copper Delta		49,800	43,830	35,670
Bering River District		20,750	8,045	6,100
Upper Copper River	61,250	56,873	69,790	20,040
Totals		127,503	121,665	61,810

Dove

Dowl

TABLE 51. Time Open to Salmon Fishing by Month, Day, Gear and Regulatory Area, 1964

Time Open to Fishing Expressed in Hours Per Day 1/

DISTRICTS

Month Day	MAY			JUNE			JULY			AUGUST		SEPTEMBER
	Copper-Bering River	Copper-Bering River	Coghill Unakwik P.W.S. General	Copper-Bering River	Coghill Unakwik P.W.S. General	Copper-Bering River	Coghill Unakwik P.W.S. General	Copper-Bering River	P.W.S. General	Copper-Bering River	Copper-Bering River	
1		18		6	24		6	24		24		
2		24		6	24		6	24		24		
3		6		24	24		18	24		24		
4		6		6	5		24	24		24		
5		24					6	24		6		
6		6		18	19		6	24		24		
7				24	24		24	24		24	18	
8		18		6	24		6	24	6	6	24	
9		24		6	24		6	24			24	
10		6		24	24		18	24	18	18	24	
11		6		6	5		24	24	24	24	24	
12		24					24	24			6	
13		6		18	19		18	24	24	24		
14	6			24	18		24	24	24	24	18	
15	24	18		6	6		24	6	6	6	24	
16	6	24		6			24	24	18	24	24	
17		6		24			24	24	18	24	24	
18	18	6	18	6			6	24	24	24	24	
19	24	24	24	6			6	24	24	24	6	
20	6	6	5	18			18	24	24	24		
21	6			24			24	24	6	6		
22	24	18	19	6			24	6				
23	6	24	24	6			24	24				
24		6	24	24			24	18				
25	18	6	24	6			24	24	24	24		
26	24	24	24	6			24	24	24	24		
27	6	6	5	18			24	24	24	24		
28	6			24			24	24	24	24		
29	24	18	19	6			24	6				
30	6	24	24	6			24	24				
31				24			24	18				
Total Open Hrs by Mo. & Gear	MAY	JUNE		JULY			AUGUST		SEPTEMBER			
Drift Gillnet	204	378	210	372	234		468		342			
Purse Seine							402		474			

1/ Blanks denote days closed to fishing.

DISTRICT SEASON OPENINGS AND CLOSING DATES

Copper River-Bering River	5/14 - 9/19	Prince William Sound	
Coghill-Unakwik			6/18 - 7/14
P.W.S. General			7/13 - 8/21

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Done

TABLE 52. Calendar Weeks, 1964 1/

Change as necessary for 1965

WEEK	FROM	THRU	WEEK	FROM	THRU
1	Jan. 1	Jan. 4			
2	Jan. 5	Jan. 11	28	July 5	July 11
3	Jan. 12	Jan. 18	29	July 12	July 18
4	Jan. 19	Jan. 25	30	July 19	July 25
5	Jan. 26	Feb. 1	31	July 26	Aug. 1
6	Feb. 2	Feb. 8	32	Aug. 2	Aug. 8
7	Feb. 9	Feb. 15	33	Aug. 9	Aug. 15
8	Feb. 16	Feb. 22	34	Aug. 16	Aug. 22
9	Feb. 23	Feb. 29	35	Aug. 23	Aug. 29
10	Mar. 1	Mar. 7	36	Aug. 30	Sept. 5
11	Mar. 8	Mar. 14	37	Sept. 6	Sept. 12
12	Mar. 15	Mar. 21	38	Sept. 13	Sept. 19
13	Mar. 22	Mar. 28	39	Sept. 20	Sept. 26
14	Mar. 29	Apr. 4	40	Sept. 27	Oct. 3
15	Apr. 5	Apr. 11	41	Oct. 4	Oct. 10
16	Apr. 12	Apr. 18	42	Oct. 11	Oct. 17
17	Apr. 19	Apr. 25	43	Oct. 18	Oct. 24
18	Apr. 26	May 2	44	Oct. 25	Oct. 31
19	May 3	May 9	45	Nov. 1	Nov. 7
20	May 10	May 16	46	Nov. 8	Nov. 14
21	May 17	May 23	47	Nov. 15	Nov. 21
22	May 24	May 30	48	Nov. 22	Nov. 28
23	May 31	June 6	49	Nov. 29	Dec. 5
24	June 7	June 13	50	Dec. 6	Dec. 12
25	June 14	June 20	51	Dec. 13	Dec. 19
26	June 21	June 27	52	Dec. 20	Dec. 26
27	June 28	July 4	53	Dec. 27	Dec. 31

1/ The numbered calendar weeks to be used in coding fish tickets, 1964 landings.

WHOLESALE VALUE OF FISHERY PRODUCTS

The wholesale value of all fishery products from the Cordova area in 1964 was \$7,829,485.65, Table 60.

According to the data submitted by fishery operators, red salmon was the most valuable fishery in 1964 and represented 32.2 percent of the value of all fishery products from the Cordova area. Pink salmon was second in value and made up 30.6 per cent. Coho salmon was next and represented 14.7 per cent, chum salmon 9.9 per cent, and king salmon 2 per cent. Salmon represented 89.4 per cent of the wholesale value of all fishery products from the Cordova area, Table 53 to 57.

The Dungeness crab catch had a value of \$818,188.02 and made up 10.5 per cent of the wholesale value, Table 58.

Other fisheries including razor clams, king crab, halibut and shrimp made up \$12,406.26 of the total wholesale value.

TABLE 5B. Wholesale Value of King Salmon from the Cordova Area, by Company, 1964 1/

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Number of Pounds <u>2/</u>	Cases <u>48/2#</u>	Wholesale Value
Channel Packing Company	Family	Canned	6	158 <u>3/</u>	6	\$ 156.00
Copper River Co-op Co., Inc.	20	Canned	1,693	44,475 <u>3/</u>	854	17,934.00
Glacier Packing Company	Family	Canned	32 <u>3/</u>	832	26	624.00
Sven Honkola	Individual	Hard Salt	17 <u>3/</u>	450		315.00
Mitsubishi International Corp. <u>4/</u>	5 Freezer Ships	Frozen	40	587		157.90
Parks Ganning Company	96	Canned	9,744	261,089	6,054	121,080.00
Point Chehalis Packers, Inc.	67	Fresh	556 <u>3/</u>	14,597		5,619.69
Point Chehalis Packers, Inc.	67	Frozen	772 <u>3/</u>	20,277		7,435.00
Western Alaska Enterprises	3 Freezer Ships	Frozen	16 <u>3/</u>	435		117.02
TOTAL <u>5/</u>			12,876	342,900	6,940	\$153,438.61

- 1/ Data from annual reports of operators (Form FG-122).
- 2/ Whole weight.
- 3/ Estimated on the basis of 26.27 pounds per fish.
- 4/ Estimated on the basis of values reported by Western Alaska Enterprises.
- 5/ The totals do not include 2 cases (48/2#) of king salmon valued at \$48.00 from a report received too late to include above.

TABLE 5. Wholesale value of Red Salmon from the Cordova area, by Company, 1964

Name of Company	Peak Number of Employees	Number of Product	Pounds of Fish	Fish 2/		48/1#		24/6oz		Wholesale Value
				48/1#	48/2#	24/1#	24/2#			
Channel Packing Company	Family	Canned	713	4093 3/	145				\$ 3,335.00	
Copper River Co-op Co., Inc.	20	Canned	65381	375287 3/	11115				233,415.00	
Foss Fish Company	5	Fresh	1960 3/	11250					4,500.00	
Glacier Packing Company	Family	Canned	1342	7703 3/	305				7,320.00	
Sven Honkola	Individual	Hard Salt	1554 3/	8922					5,635.40	
Mitsubishi International Corp.	5 Freezer Ships	Frozen	8172	52944					16,412.64	
Ocean Harvest Packing Company	Family (5)	Canned-Smoked	115	690					792.00	
Parks Canning Company	96	Canned	581077	3315407	6222				8983	
Point Chehalis Packers, Inc.	67	Canned	54374	312106 3/	72597				276	
Western Alaska Enterprises	3 Freezer ships	Frozen	31810 3/	182592					179,779.50	
TOTAL			746,498	4,270,994	6,222	92,005	44	9,259	\$2,521,834.01	

1/ Data from annual reports of operators (Form FG-122).
 2/ Whole weight.
 3/ Estimated on the basis of 5.74 pounds per fish.
 4/ The totals do not include 13 cases (48/2#) of red salmon from a report received too late to include in the above table.

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TABLE 5. Wholesale value of Pink Salmon from the Cordova area, by Company, 1964 1/

Name of Company	Peak Number of Employees	Type of Products	Number of Fish	Pounds of Fish <u>2/</u>	CASES		Wholesale Value
					48/#	48/1#	
Copper River Co-op Co., Inc.	20	Canned	79,312	312,489 <u>3/</u>	9,667		\$ 111,170.50
Kayak Packing Company	24	Canned	62,031	244,402 <u>3/</u>		2,505	44,589.00
Mitsubishi International Corp. <u>4/</u>	5 freezer ships	Frozen	1,954,085	7,599,424			927,129.73
Parke Canning Company	96	Canned	780,260	3,074,224 <u>3/</u>		34,835	678,759.00
Western Alaska Enterprises	3 freezer ships	Frozen	1,376,441	5,245,405			639,939.41
TOTAL			4,252,129	16,475,944	9,667	37,340	\$2,401,587.64

1/ Data from annual reports of operators (Form FG-122).
2/ Whole weight.
3/ Estimated on the basis of 3.94 pounds per fish.
4/ Estimated on the basis of values reported by Western Alaska Enterprises.

TABLE 5. Wholesale Value of Chum Salmon from the Cordova Area, by Company, 1964 1

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish ^{2/}	CASTS		Wholesale Value
					48/1#	48/1#	
Couper River Co-op Co., Inc.	20	Canned	31,652	277,905 ^{3/}	7,312		\$ 73,120.00
Kayak Packing Company	24	Canned	20,338	178,568 ^{3/}		2,259	33,704.28
Mitsubishi International Corp. ^{4/ 5}	freezer ships	Frozen	225,200	2,021,940			202,194.00
Forks Ganning Company	96	Canned	160,548	1,409,611 ^{3/}		18,527	383,086.00
Western Alaska Enterprises	3 freezer ships	Frozen	105,762	821,097			82,109.70
TOTAL			543,500	4,924,107	7,312	20,786	\$774,213.98

^{1/} Data from annual reports of operators (Form FG-122).

^{2/} Whole weight.

^{3/} Estimated on the basis of 8.78 pounds per fish.

^{4/} Estimated on the basis of values reported by Western Alaska Enterprises.

TABLE 57. Wholesale Value of Coho Salmon from the Cordova Area, by Company, 1964 1/

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish 2/	CASES 18/1#	Wholesale Value
Copper River Co-op Co., Inc.	20	Canned	455	5,533 3/	91	\$1,456.00
Mitsubishi International Corp. 4/	5 Freezer ships	Frozen	5,955	54,261		\$9,495.68
Ocean Harvest Packing Co.	Family (5)	Kippered-and Hard smoked	249	2,988 (180 lbs. finished product)?		\$ 255.00?
Parks Canning Co., Inc.	96	Canned	275,954	3,155,357	316	\$1,123,560.00
Point Chehalis Packers, Inc.	67	Frozen	100	1,207		\$183.00
Western Alaska Enterprises	3 Freezer ships	Frozen	8,161	71,814		\$12,567.45
TOTAL 5/			290,874	3,291,160	407	\$1,147,817.13

- 1/ Data from annual reports of operators (Form FG-122).
- 2/ Whole weight.
- 3/ Estimated on the basis of 12.16 pounds per fish.
- 4/ Estimated on the basis of values reported by Western Alaska Enterprises.
- 5/ The totals do not include 4 barrels, 860 pounds of salted Coho salmon with a wholesale value of \$375.00. These are from a report received too late to include in the above table.

TABLE 58. Wholesale Value of Dungeness Crab from the Cordova Area, by Company, 1964 1/2

Name of Company	Peak Number of Employees	Type of Product	Net Weight Finished Product	CASES		Wholesale Value
				24/6 1/2 oz.	12/6 1/2 oz.	
Point Chehalis Packers, Inc.	67	Canned				375,937.40
Point Chehalis Packers, Inc.	67	Fresh Meat	928	22,213	5,624	1,556.02
Point Chehalis Packers, Inc.	67	Fresh Whole Cooks	22,469			8,954.75
Point Chehalis Packers, Inc.	67	Frozen Whole Cooks	577,978			153,814.41
Point Chehalis Packers, Inc.	67	Frozen Crab Meat	94,390			121,316.42
Point Chehalis Packers, Inc.	67	Frozen Sections	618,716			156,609.02
TOTAL			1,314,481	22,213	5,624	\$818,188.02

1/ Data from annual report of operator (Form FG-122).

TABLE 59. Wholesale Value of Miscellaneous Fish Products from the Cordova Area, by Company, 1964 1/

Name of Company	Peak Number Employees	Type of Product	Net Weight Finished Product	CASES			Wholesale Value	
				24/19oz.	48/3oz.	24/6oz.		
Channel Packing Co.	Family	Razor Clams, Canned					862.50	
Glacier Packing Co.	Family	Razor Clams, Canned		15			2,515.00	
Ocean Harvest Packing Co.	Family (5)	Razor Clams, Canned		35			484.00	
Point Chehalis Packers, Inc.	67	Razor Clams, Canned			44		188	
Point Chehalis Packers, Inc.	67	King Crab, Frozen Sections	8,794				2,444.00	
Point Chehalis Packers, Inc.	67	King Crab, Fresh Meat	62				3,783.70	
Point Chehalis Packers, Inc.	67	Halibut, fresh	3,863				73.75	
Darrell Phillips	3	Shrimp, fresh	1,062				915.81	
							1,327.50	
TOTAL	2/							
		RAZOR CLAMS	8,856	107 1/2	50	44	188	\$12,406.26
		KING CRAB	3,863					
		HALIBUT	1,062					
		SHRIMP						

1/ Data from annual reports of operators (Form FG-122).
 2/ The totals do not include 15 cases number 2 cans of razor clams valued at \$330.00 from a report received too late to include in the above table.

TABLE 60. Wholesale Value of All Fishery Products from the Cordova Area, 1964

Species	Type of Product	Number of Fish	Number of Pounds	CASES								Wholesale Value		
				1/8/54	1/8/54	2/1/54	2/1/54	2/1/61	2/1/62	12/62	2/1/19			
King Salmon	Canned	11,475	306,554	6,940										# 139,794.00
King Salmon	Hard Salt	17	450											315.00
King Salmon	Fresh & Frozen	1,384	35,896											13,321.61
Red Salmon	Canned	703,002	4,015,286	92,005	6,222	9,259	44							2,438,682.45
Red Salmon	Fresh & Frozen	37,584	221,767											77,516.16
Red Salmon	Hard Salt	1,554	8,922											5,635.40
Pink Salmon	Canned	921,603	3,631,115	9,667	37,340									834,518.50
Pink Salmon	Frozen	3,330,526	13,022,602											1,567,064.14
Chum Salmon	Canned	212,538	1,866,084	7,312	20,786									489,910.28
Chum Salmon	Frozen	330,962	2,950,530											284,303.70
Coho Salmon	Canned	276,409	3,160,890	407	39,918									1,125,016.00
Coho Salmon	Frozen	14,216	127,283											22,546.13
Coho Salmon	Kippered-Hard Smoked	249	2,988											19,394.57
Dungeness Crab	Canned		23,397*											22,213
Dungeness Crab	Fresh, Cooked		1,291,084*											5,624
Dungeness Crab	Frozen, Cooked													375,937.40
Razor Clams	Canned			50		188	44							107 1/2
King Crab	Fresh & Frozen		8,856*											6,305.50
Halibut	Fresh		3,863*											3,857.45
Shrimp	Fresh		1,062*											915.81
TOTAL		5,811,519	30,678,629	116,381	104,266	9,447	88	22,213	5,624	107 1/2	7,829,485.65			\$7,584,289.06

* Pounds of finished product.

PERSONNEL

The Commercial Fisheries Division employed four permanent and ten seasonal employees in the Cordova management area in 1964. Following is a list of personnel, general duty assignment and dates of employment.

Permanent Employees - 1964

Ralph B. Pirtle	Area Management Biologist
Rae Baxter	Assistant Area Management Biologist
Bertha Allen (Terminated 12/14/64)	Clerk-Stenographer
Jeannette Bailey (Hired 11/19/64)	Clerk--Stenographer

Seasonal Employees - 1964

<u>Name</u>	<u>Assignment</u>	<u>Dates of Employment</u>
Robert Q. Barone	Statistics, Copper River Stream Surveys.	5/16 - 8/25
Donald M. Bender	Copper River Tagging, Stream Survey, Special Agent on Japanese Vessel	6/2 - 8/21
Billy Joe Boettger	Special Agent on Japanese Vessel	7/26 - 8/15
William B. Dorsey	Copper River Tagging & Stream Survey	5/23 - 10/9
Terry C. Holliday	Copper River Tagging	5/5 - 5/13
Kenneth A. Maederer	Copper River Tagging, Misc.	5/16 - 7/17 & 8/15 - 9/11
Thomas G. Norton	Special Agent on Japanese Vessel	7/22 - 8/20
Robert M. Peck	Special Agent on Japanese Vessel	7/22 - 8/17
Donna I. Smith	Clerical Aide, Statistics	7/21 - 8/31
John David Solf	Eshamy River Fish Weir	6/16 - 9/18