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## INTRODUCTION

This is the sixth annual statistical report since the State assumed management of the fishery in 1960. Prior to Statehood statistical reports covering the various commercial fisheries was compiled by the Bureau of Commercial Fisheries. The reports compiled by federal agencies date back to the early 1930s. Historical data is available from various publications, namely the Pacific Fisherman Yearbooks, from the inception of the fishery early in the 1900s.

Historically, the major fishery has been for salmon, however, both razor clams and Dungeness crab have contributed to the overall economics of the Cordova area. Although all five species of salmon are taken, the principal salmon fishery is purse seining for pink salmon in Prince William Sound. A drift gill net fishery for kings, reds and cohos is conducted on the Bering River - Copper River Deltas.

The processors included, in 1965, seven shore based salmon canneries, one floating salmon cannery, one salmon custom packing operation, two fresh-frozen (freezer ship) salmon operations, one small mild-cure-smoke salmon operator, one small hard-salt salmon operator, and one salmon cold storage operation. Other operations included 5 small fresh and canned razor clam operations, 5 fresh, frozen and canned Dungeness crab operations and 3 small shrimp, king crab, fresh smelt, etc. operations, (TABLE 2).

The economies of the communities of Prince William Sound depend almost entirely on the commercial fishery, the fishing and processing of fish.

This statistical report summarizes historical data and provides a detailed compilation of the 1965 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.

## GENERAL COMMENTS

The general success of the salmon seasons varied primarily with the species concerned with individual species take ranging from excellent to poor.

The year 1965 was apparently the year for red salmon as attested by returning runs to Alaska in general. Although the drift gill net red salmon catch at Bering River was below normal, the overall catch was the highest for several years. For the Copper River fishery the catch of reds exceeded all years since 1954 and exceeded the second high year for that period, 1964, by more than one hundred thousand, (Table 9).

The good red salmon season was also reflected in some Prince William Sound streams, (TABLES 27, 29, 36, 38 and 40). Coghill River district, (TABLE 40), experienced a fair to good run of reds and the Eshamy district was opened for a limited harvest. The red salmon spawning escapement at Eshamy was the second largest recorded at the weir. In 1932, an escapement of 229,668 reds was recorded at the weir as compared to 108,963 in 1965. The count in 1965 far exceeds recorded escapements at the weir for the past 15 years, (TABLE 35).

Copper river king salmon were in better than average abundance as indicated by the catch, (TABLE 9). The catch was above average and the largest since 1955. King salmon are taken incidental to red salmon with red gear.

The fall coho season on the other hand was a complete bust on Copper River flats and was only fair or average at Bering River. Several regulatory measures were necessary during the season to obtain an adequate escapement, however, later assessment of escapements by aerial survey showed poor spawning escapements to most streams, (TABLE 18). The coho catch from Copper River was the smallest since 1957.

Catches of pink and chum salmon in the Prince William Sound purse seine fishery were generally fair to poor. Total catches of both pinks and chums were down from the average. Chum salmon runs were apparently poor throughout Alaska, however, this was not anticipated prior to the fishing season. The chum catch, (TABLE 24), is probably the smallest in the history of the fishery when fishing was open. An average run was predicted for pink salmon (Informational Leaflet 65) at about 4.1 million with the actual return slightly below the prediction. Information gathered from post-earthquake effects on pink and chum production levels.

Other fisheries were conducted on razor clams and Dungeness crab. The clam fishery was small consisting primarily of bait diggers, (TABLE 45). The Dungeness crab fishery was conducted at about the same intensity in the "Inside area" as previous years but the pack was down considerably from last year and was the smallest catch since 1959, (TABLE 46), due primarily to the decrease in effort in the "Outside" fishing area.

## ECONOMIC CONDITIONS

The commercial fisheries of the Cordova area were generally less successful in 1964 as compared to 1965 and probably the poorest since 1960 for the average fisherman. With the exception of the small Coghill district purse seine and drift gill net fishery the average catch per fisherman was below 1965, Table 1.

Even though the forecast for Prince William Sound purse seining was for a generally poor season, the number of units of gear actually exceeded 1964. The fact of a larger number of fishermen participating in 1965 led to the decreased average catch. Fishermen caught 2,190,471 pink salmon, 150,053 chum salmon, 48,909 red salmon, 7,711 coho salmon and 700 king salmon for an average gross income of \$2,214.92.

The total catch from Copper River was the largest in several years, however, because of an increase in fishing effort in 1965 the gross income per fisherman was below 1964, Table 1. Fishermen caught 807,423 reds, 15,259 kings, 118 pinks and 171 chums during the red salmon season for an average gross income of \$5,800.78. During the fall season 71,415 coho salmon were taken for an average gross income per fisherman of \$593.00. The coho salmon season on Copper River flats was a failure in 1965 as shown by the low gross income.

The drift gill net season at Bering River was quite successful during the red season but dropped to about one-half the 1964 catch during the fall coho season. Fishermen took 13,536 reds, 7 kings and 52,162 coho for a gross income of \$3,834.33 per fisherman.

The average gross income of purse seine and drift gill net fishermen fishing the Coghill district was \$3,465.83. This is the highest gross income of the five year period, Table 1. The higher average is

probably due, in part, to an increased effort by purse seine fishermen who maintained higher individual catches. Purse seine fishermen caught 43,216 reds, 399 cohos, 194,187 pinks and 44,135 chum as compared to the drift gill net catch of 22,855 reds, 18 cohos, 1,905 pinks and 4,363 chum.

During the salmon purse seine season the salmon tender M/V Merganser was sunk in Port Chalmers with approximately 12,000 salmon aboard. The vessel was later salvaged but the salmon aboard was a total loss.

Mr. S. Laland Daniels, Master of the M/V Christian, reported a total loss of salmon purchased from fishermen in Prince William Sound. With the exception of about 30,000 pounds sold for trout and mink food the loss amounted to about \$13,455.38, the value paid to fishermen. Losses of fish included 25 reds, 126 cohos, 1 king, 590 chums and 39,475 pinks. The loss occurred because of a faulty thermometer which read lower than the actual temperature.

Twenty vessels participated in the crab fishery in 1964 as compared to 33 in 1965. Both effort and catch was below the previous year due, in part, to lowered demands at the market level and limits imposed on the fishermen. A total catch of 2,598,225 pounds of Dungeness crab was landed in Cordova with a gross value to the fishermen of about \$311,787.00. The average gross value per vessel was \$15,589.35.

Approximately 44 razor clam diggers sold 75,881 pounds for bait at 20 cents per pound. The average gross return per digger was \$344.91.

SALMON AND DUNGENESS CRAB FISHING SEASONS

SALMON

Copper River and Bering River Districts:

The drift gill net fishing season opened at 6:00 p.m., May 17 and closed by Emergency Order No. 13 at 6:00 a.m. on September 13.

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, the weekly fishing time was from 6:00 a.m. Monday to 6:00 a.m. Saturday, except as changed by emergency order.

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. 8, August 27, 1965.

Section 112.06 Weekly fishing period, shall be amended as follows:

The weekly period beginning August 30 and ending September 3, 1965 shall be closed to fishing.

Effective immediately, August 27, 1965.

EMERGENCY ORDER No. 10, September 3, 1965.

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

The Copper River district shall be closed to fishing until further announcement.

Effective September 3, 1965.

EMERGENCY ORDER No. 11, September 3, 1965.

Section 112.06 Weekly fishing period, shall be amended as follows:

The Bering River district shall be open from 6:00 a.m. Monday to 6:00 p.m. Wednesday until changed by further announcement.

Effective September 3, 1965.

EMERGENCY ORDER No. 12, September 10, 1965.

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

Salmon may be taken from 6:00 a.m. September 13 to 6:00 p.m. September 15.

Effective at 6:00 a.m. September 13, 1965.

EMERGENCY ORDER No. 13, September 15, 1965.

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

Salmon may be taken from 6:00 p.m. September 15 to 6:00 a.m. September 18.

Effective at 6:00 p.m. September 15, 1965.

Prince William Sound, Coghill and Unakwik Districts:

The Coghill district drift gill net and purse seine season and Unakwik drift gill net season opened as scheduled at 6:00 a.m. June 21 and closed at 6:00 a.m. Saturday, July 17 by:

EMERGENCY ORDER No. 1, July 13, 1965.

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

(a) Coghill district and Unakwik district: The salmon drift gill net season shall close at 6:00 a.m. Saturday, July 17, 1965.

Effective July 17, 1965 at 6:00 a.m.

Prince William Sound, General Districts:

The purse seine season opened as regularly scheduled at 6:00 a.m. July 5 and closed by Emergency Order No. 5 at 6:00 p.m. August 3.

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, (see TABLE 51 for time open to fishing).

During the season, several emergency orders were promulgated to allow for an adequate spawning escapement. The emergency orders were as follows:

EMERGENCY ORDER No. 2, July 23, 1965.

Section 111.21 Closed waters, shall be amended as follows:

(u) Wells Passage: Waters of the Northwestern district and Coghill district west of a line from Point Esther to Point Culross; waters of Culross Passage north of  $60^{\circ}37'30''$  N. lat.; and, waters of Esther Passage north of  $60^{\circ}50'$  N. lat.

(jj) All waters of the Northern district.

Effective July 26, 1965 at 6:00 a.m.

EMERGENCY ORDER No. 3, July 27, 1965.

Section 111.21 Closed waters, shall be amended as follows:

The following waters are closed to fishing:

Simpson Bay, South Arm	East of $145^{\circ}54'$ W. long.
Sheep Bay	North of $60^{\circ}40'$ N. lat.
Port Gravina	East of $146^{\circ}09'30''$ W. long.
St. Matthews Bay	North of $60^{\circ}43'30''$ N. lat.
Landlocked Bay	North of $60^{\circ}49'30''$ N. lat.
Galena Bay	Within the bay east of the Narrows.
Jack Bay	East of $146^{\circ}38'$ W. long.
Port Nellie Juan	West of $148^{\circ}11'30''$ W. long.
McClure Bay	South of $60^{\circ}30'30''$ N. lat.
Canoe Passage	South of $60^{\circ}31'30''$ N. lat.
Windy Bay	Within the bay.

Effective July 28, 1965 at 6:00 a.m.

EMERGENCY ORDER No. 4, August 1, 1965.

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

(b) The daily fishing time shall be from 6:00 a.m. to 6:00 p.m.

Section 111.21 Closed waters, shall be amended as follows: The following waters of Prince William Sound are closed to fishing:

Montague district  
Northwestern district  
Coghill district  
Southeastern district  
Whale Bay south of  $60^{\circ}14'30''$  N. lat.  
Sawmill Bay (Evans Island) north of a line from the southern most point of the east entrance to the light on the west entrance.  
Orca Bay and Orca Inlet east of  $145^{\circ}48'$  W. long.  
Olsen Bay north of  $60^{\circ}44'15''$  N. lat.  
Port Fidalgo east of  $146^{\circ}27'$  W. long.

Effective August 2, 1965 at 6:00 a.m.

EMERGENCY ORDER No. 5, August 3, 1965

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

The salmon purse seine fishing season shall close at 6:00 p.m., August 3, 1965 until further notice.

Effective August 3, 1965 at 6:00 p.m.

Prince William Sound, Eshamy District:

The 1965 regulations did not allow for fishing in the Eshamy district. However, a better than anticipated run of red salmon returned which allowed a limited harvest. The season was opened by Emergency Order No. 6 and fishing commenced at 6:00 a.m., Monday, August 9 and closed by Emergency Order No. 7 at 6:00 a.m., Tuesday, August 24.

EMERGENCY ORDER No. 6, August 4, 1965.

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

(b) Beginning at 6:00 a.m., Monday, August 9, 1965, salmon may be taken by drift gill nets and set gill nets in the Eshamy district.

Effective August 9, 1965 at 6:00 a.m. until changed by emergency order.

EMERGENCY ORDER No. 7, August 20, 1965.

Section 111.05 (b) and 111.06 shall be amended as follows:

Eshamy district shall be open to the taking of salmon from 6:00 a.m. Saturday, August 21, 1965 to 6:00 a.m. Tuesday, August 24, 1965; and further, the salmon open fishing season shall close at 6:00 a.m. Tuesday, August 24, 1965.

Effective August 21, 1965 at 6:00 a.m.

Dungeness Crab:

The regular Dungeness crab season in the "Inside" fishing area was closed on August 31 by Emergency Order No. 9 in Orca Inlet because of an unusual large per cent of "soft shells" in the catch. The season was reopened September 22 by Emergency Order No. 14.

EMERGENCY ORDER No. 9, August 31, 1965.

Section 111.77 Open fishing season, dungeness crab, shall be amended as follows:

Dungeness crab may be taken from January 1 to December 31; provided that the waters east of a line from the northeastern point of Spike Island to the southwestern point of Mud Bay and a line from Johnstone Point to Sheep Point, is closed to the taking of dungeness crab until opened by emergency order.

Effective August 31, 1965 at 12:00 noon.

EMERGENCY ORDER No. 14, September 22, 1965.

Section 111.77 Open fishing season, dungeness crab, shall be amended as follows:

Dungeness crab may be taken from January 1 to December 31; provided that North of 60°24' North Latitude, and South of a line from Johnstone Point to Sheep Point, dungeness crab may be taken from 12:01 p.m. September 22 to 12:01 p.m. June 1.

Effective September 22, 1965 at 12:00 noon.

TABLE 1. Average Salmon Catch and Catch Value Per Fisherman

1960 - 1965

Year	Average Value Per Fisherman	Average Catch					District
		King	Red	Coho	Pink	Chum	
1960	\$1,397.04		162	78	8,460	1,764	Prince William Sound 1/
1961	2,835.24		4	20	21,318	1,951	
1962	4,221.40		87	58	26,945	3,464	
1963	2,630.81		141	110	18,679	3,321	
1964	3,609.77	1*	251	212	29,608	3,791	
1965	2,214.92	4	545	48	14,396	1,577	
<hr/>							
1960		Not a separate district this year.					Cognell Unakvik
1961	1,035.31		518	1	401	96	
1962	461.18		243	1*	39	84	
1963	1,403.21		707	1*	112	219	
1964	1,158.59	1*	573	1*	102	80	
1965	3,465.83		1,418	4	8,402	4,780	
<hr/>							
1960		C L O S E D					Eshamy
1961	5,507.00		1,888	47	3,982	883	
1962	4,474.74		954	156	3,054	1,596	
1963		C L O S E D					
1964		C L O S E D					
1965	890.73		533	2.5	12	14	
<hr/>							
1960	4,152.31	41	1,964	897	1	1	Copper River
1961	4,306.68	27	1,944	998	5	1*	
1962	6,118.09	37	2,364	1,658	4	1	
1963	4,607.38	30	1,832	1,170	3	1*	
1964	7,244.45	56	3,988	1,636	2	1*	
1965	6,393.78	50	3,392	577			
<hr/>							
1960	2,684.29	1	687	1,451			Bering River
1961	4,763.50	1*	1,824	1,620			
1962	6,651.95	6	1,477	3,206			
1963	3,579.40	2	464	1,969			
1964	4,995.64	2	727	2,224			
1965	3,834.33		1,459	1,243			

\* 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).

TABLE 2. Fishery Operators, Cordova District, 1965

Name, Executive, Location Address, etc.	Lines of Machinery	Product Packed
Bering Sea Fisheries, Inc. H. W. Bodey, Superintendent Location: Bering River 611 Lowman Building Seattle, Washington	Floater One 1# tall	Salmon
C. O. Buck One man operation Location: Boswell Bay Cordova, Alaska	One #2	Razor clams
Channel Packing Company Phil S. Buchanan, Superintendent Location: Big Point Cordova, Alaska	One 1/2# flats	Salmon Razor clams
Joseph W. Clark Location: Fairmount Point Fairmount Island, Alaska	One 1/2# flats	Shrimp King crab
Copper River Co-op Co., Inc. Wm. J. Clemence, President Location: Port Ashton 559 Colman Building Seattle, Washington	Two 1# talls	Salmon
Freezer Ship "Christian" S. L. Daniels, Buyer Location: Prince William Sound Box 2225 Ketchikan, Alaska	Fish buyer	Salmon
Jean Dettinger Location: Cordova Box 153 Cordova, Alaska	One 1/2# flats	Salmon
Engstrom Brothers Clarence Moy, Superintendent Location: Bering River Pelican, Alaska	Fish buyer Boats "Shamrock" & "Lone Fisherman"	Salmon
Glacier Packing Company Percy Conrad, Superintendent Location: Big Point Box 176 Cordova, Alaska	One 1/2# flats	Salmon Razor clams

TABLE 2., cont. Fishery Operators, Cordova District, 1965

Name, Executive, Location, Address, etc.	Lines of Machinery	Product Packed
Sven Honkola. Location: Cordova Box 292 Cordova, Alaska	Barrels - Hard Salt	Salmon
Freezer Ship "Irene C" Refrigerated Seafoods, Inc., Owner Lee Wooden, Operator Location: Copper-Bering River 3821 33rd Avenue S.W. Seattle, Washington	Fish buyer	Salmon
New England Fish Company J. E. Forsell, Superintendent Location: Orca Bay 618 Second Avenue Seattle, Washington	Three 1# talls One 1/2# flats	Salmon Salted Salmon Eggs
Ocean Harvest Packing Company Jack A. E. de Ville, Superintendent. Location: Cordova Box 178 Cordova, Alaska	One 1/2# flat	Salmon
Carl J. Olsen Location: Cordova Box 782 Cordova, Alaska	Fresh market	Razor clams Smelt
Parks Canning Company Justin V. Strom, Superintendent Location: Cordova 309 Colman Building Seattle, Washington	Two 1# tall One 1/2# flats	Salmon Salted Salmon Eggs
Darrell G. Phillips Location: Cordova Box 752 Cordova, Alaska	Fresh market	Shrimp
Point Chehalis Packers, Inc. James A. Poor, Superintendent Location: Cordova Box 751 Cordova, Alaska	One 1/2# flats	Salmon Razor clams Dungeness crab

TABLE 2., cont. Fishery Operators, Cordova District, 1965

<u>Name, Executive, Location, Address, etc.</u>	<u>Lines of Machinery</u>	<u>Product Packed</u>
Robert Sherman Location: Cordova Box 303 Cordova, Alaska	Fresh market	Razor clams
Harry Shipman Location: Cordova Box 802 Cordova, Alaska	Fresh market	King crab
Bruno Zimicki Location: Crosswind Lake Mile 173 Glenn Highway Alaska	Fresh market	Whitefish

## PRICES OF FISH AND SHELLFISH

Salmon price negotiations between fishermen and the major canners was completed prior to the season opening date in 1965.

The salmon price settlement was on a per pound basis but differed from previous years since prices were on a sliding scale basis depending on final case price values. Prices per pound remained approximately the same as 1964. The starting price received was: red, \$0.27/lb.; king, \$0.23; coho, \$0.15; pink, \$0.0984; and, chum, \$0.0794.

The sliding scale was to be determined as follows: The fisherman was to receive, per pound of fish, 45 per cent of the case price as divided by 85 pounds. The case price used in the computations to be the case tax base as developed annually by the Alaska Department of Revenue, stated in form DR 58 SC as per AS 43.75.010 or its subsequent substitute. The canner to pay 90 per cent of the starting price for pinks and chums upon delivery or first settlement. Immediately upon availability of the salmon case tax base figures for the ensuing year the fisherman will receive his withheld 10 per cent if the price has remained the same. If the price has increased, the fisherman will receive his withheld 10 per cent plus 45 per cent of the increase divided by 85 pounds. If the price has decreased, the canner may deduct from the withheld 10 per cent in the same ratio, not to exceed the 10 per cent. No further liability shall accrue to the fisherman.

The same formula and conditions were to apply for chums except that 39 per cent and 80 pounds were to be used in the formula.

The above prices were the prevailing prices paid throughout the season for salmon in the round delivered to tenders on the fishing grounds or at the cannery dock, (TABLE 3).

Point Chehalis Packers paid the following prices for salmon delivered at their dock: red, \$0.30/lb. from Copper-Bering River, \$0.27 from Eshamy; king, \$0.23; cho, \$0.17; and, pink and chum, regular scale.

Razor clams were sold primarily for bait and brought 20 cents per pound field weight delivered to the cannery, (TABLE 4). A few razor clams were sold fresh locally for \$2.00 per dozen.

The crab price was settled at a minimum of 12 cents per pound with a sliding scale of 9 per cent of the meat price in Seattle determined every two weeks. The starting price was for 14 cents per pound but had an immediate downward trend because of the influence of king crab prices.

TABLE 3. Summary of Prices Paid for Salmon, 1952-1965\*

Year	Red	King	Coho	Chum	Pink
1952	\$1.15 ea.	\$1.15 ea.	\$1.05 ea.	\$0.57 ea.	\$0.415 ea.
1953	1.25 ea.	4.15 ea.	1.05 ea.	0.57 ea.	0.415 ea.
1954	1.25 ea.	4.15 ea.	.90 ea.	--	--
1955	1.25 ea.	4.15 ea.	1.05 ea.	0.57 ea.	0.415 ea.
1956	1.35 ea.	4.15 ea.	1.10 ea.	0.60 ea.	0.45 ea.
1957	1.39 ea.	4.15 ea.	1.10 ea.	0.635 ea.	0.45 ea.
1958	1.39 ea.	0.21/lb.	1.10 ea.	0.635 ea.	0.45 ea.
1959	1.40 ea.	0.22/lb.	1.10 ea.	0.635 ea.	0.45 ea.
1960	1.47 ea.	0.23/lb.	1.15 ea.	0.68 ea.	0.48 ea.
1961	1.50 ea.	0.23/lb.	1.25 C.R. 1.15 P.W.S.	0.68 ea.	0.48 ea.
1962	1.55 ea.	0.23/lb.	1.35 C.R. 1.25 P.W.S.	0.76 ea.	0.52 ea.
1963	0.24/lb.	0.23/lb.	0.15/lb.	0.0875/lb.	0.105/lb.
1964	0.27/lb.	0.23/lb.	0.15/lb.	0.0875/lb.	0.105/lb.
1965 <u>1/</u>	0.27/lb.	0.23/lb.	0.15/lb.	0.0794/lb.	0.0984/lb.

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

1/ Point Chehalis Packers paid the following prices delivered at the plant: King 23¢/lb.; Reds - Copper River 30¢/lb., Eshamy 27¢/lb.; Coho 0.17¢/lb., Pink and Chum same as above.

TABLE 4. Summary of Prices Paid for Shellfish and Miscellaneous Fish Products  
(1950 - 1965)

Year	Razor Clams	Dungeness Crab	Cockle	King Crab	Other
1950	\$0.12/lb.	\$0.12/lb. 1/	\$6.00/100# sk.	--	--
1951	0.15	0.085	8.00	--	--
1952	0.13	0.085	8.00	--	--
1953	0.13	0.085	--	--	--
1954	0.13	0.08	--	--	--
1955	0.13	0.08	0.03/lb.	--	--
1956	0.13	0.08	--	--	--
1957	0.13	0.05	--	--	Salmon Eggs \$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	0.12 3/	--	0.12	Halibut \$0.16/lb.

1/ Prices for Dungeness crab \$0.14 - \$0.15 caught outside.  
 2/ Prices for Dungeness crab were decreased to \$0.12 September 1st.  
 3/ Sliding scale - 9% of the meat price in Seattle, determined every two weeks.

## 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 per case vary considerably each year and appear to be a function of several factors. Probably the most important variant being the size of the fish, TABLE 5. The condition of the fish, transporting and handling methods, and the method and care in canning also influence the number per case. Probably other factors are also involved.

The number of salmon per case for 1965 in TABLES 6 and 7 were taken from reports of Parks Canning Company, except pinks, which were averaged for all canneries.

TABLE 5. Comparative Average Weights of Salmon  
by Area, in Pounds, from Catch

Area	Year	King	Red	Coho	Pink	Chum
Prince William Sound	1963	--	6.95	8.71	3.82	9.30
	1964	16.39	6.78	8.67	3.94	8.78
	1965	14.22	6.94	7.43	3.30	7.90
Copper River	1963	25.17	6.10	9.90	--	--
	1964	26.28	5.67	12.99	--	--
	1965	26.62	5.72	7.57	--	--
Bering River	1963	27.07	5.88	9.86	--	--
	1964	28.70	6.28	8.85	--	--
	1965	32.00	5.88	9.06	--	--
Average all Areas	1963	25.50	6.20	9.30	3.80	9.30
	1964	26.27	5.74	12.16	3.94	8.78
	1965	25.80	5.89	8.12	3.30	7.90

TABLE 6. Number of Salmon Per Case, 1954 - 1965

(Prince William Sound)

<u>Year</u>	<u>Red</u>	<u>Coho</u>	<u>Pink</u>	<u>Chum</u>
1954	9.5	9.7	16.5 <u>1/</u>	--
1955	9.6	9.4	15.0	8.7
1956 <u>2/</u>	--	--	--	--
1957	9.8	10.5	17.4	8.5
1958 <u>2/</u>	--	--	--	--
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 <u>4/</u>	13.52 <u>3/</u>	6.89	22.39	8.23
1965 <u>4/</u>	12.69 <u>3/</u>	10.31 <u>5/</u>	25.43 <u>5/</u>	10.23 <u>5/</u>

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 Company reported fish per case as follows: coho 9.20, pink 24.59, chum 10.02.

TABLE 7. Number of Salmon Per Case, 1951 - 1965  
(Copper and Bering Rivers)

Year	King	Red	Coho	Pink	Chum
1951 <u>1/</u>	3.4	11.6	8.1	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
1965 <u>3/</u>	3.17	12.69 <u>4/</u>	10.31 <u>4/</u>	--	--

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 Company combined for both Copper River and Prince William Sound.

4/ Includes some reds and coho from Prince William Sound.

## COPPER RIVER SALMON

The commercial drift gill net fishing season opened on May 17 and continued without interruption through the red and king salmon fishery. Because of a poor run of coho salmon during the fall season several regulatory measures were necessary to obtain adequate escapement, (see section under "Salmon and Dungeness Crab Fishing Seasons", page 7). Weekly catch and case pack data for the three major species is summarized in Tables 8, 11 and 12.

A fish price settlement was reached prior to the season opening date which resulted in most of the fleet operating during the opening week. Fishing pressure increased from a starting fleet of 260 boats to a peak of 334 boats during the third and fifth weeks then gradually decreased through the remainder of the red salmon fishery. Table 8 and 12 shows that fishing effort reached a minimum during week 32 and Table 12 shows the fall peak effort occurred during week 35.

The coho fishery got off to a slow start and did not recover sufficiently to allow a normal harvest. Because of the small run it was necessary to curtail fishing during week 36 and 37. Test fishing crews were put in the fishery during the closed periods to monitor the coho run. Information obtained from test fishing allowed a limited harvest during week 38. The fishery was closed by field announcement on September 18.

The Copper River drift gill net fishery shows a better than average catch for both red and king salmon, Table 9. The red salmon catch of 807,423 exceeds all years since 1954 when the catch was 1,099,564. The king salmon catch of 15,259 also exceeded recent years and was the largest since 1920 when 20,438 kings were taken. The coho salmon

catch of 71,415 was far below recent years and was the smallest since 1957 when 58,705 coho were taken. The case pack (Table 10) reflects the same pattern as the catch but because of the small size of the red salmon, the 1965 pack of 63,627 cases did not greatly exceed the 1962 pack of 61,379 when the catch was some 130,000 less red salmon. Also, in 1964 the catch was larger than the 1962 catch by about 22,000 reds, yet the pack was below 1962 by about 10,000 cases because of the smaller salmon. The coho pack of 6,928 cases is the smallest since 1957.

TABLE 8. COPPER RIVER RED SALMON, 1965  
(Weekly Catch and Case Pack)

Week No.	Case Pack 1/ (48-1#/cs.)	Total Catch	Total Pounds	Average Wt./Fish	Number Boats	Number Deliveries	Average No. Fish/Boat	Fathoms 2/ of Gear
21	5,680	72,074	399,326	5.54	260	760	277	39,000
22	10,900	138,323	785,540	5.68	319	1,116	434	47,850
23	9,291	117,903	674,495	5.72	334	1,136	353	50,100
24	9,192	116,650	680,888	5.84	321	1,069	363	48,150
25	10,240	129,943	741,289	5.70	334	1,279	389	50,100
26	7,347	93,232	534,130	5.73	293	1,038	318	43,950
27	2,853	36,204	212,847	5.88	188	541	193	28,200
28	4,359	55,313	309,132	5.59	163	545	339	24,450
29	1,929	24,478	146,613	5.99	89	303	275	13,350
30	1,391	17,649	102,407	5.80	74	227	239	11,100
31	328	4,164	23,992	5.76	44	71	95	6,600
32	90	1,136	6,330	5.57	10	10	114	1,500
33	23	297	1,716	5.78	91	272	3	13,650
34	4	57	309	5.42	179	647		26,850
35								
TOTAL	63,627	807,423	4,619,014	5.72	2,699	9,014	3,392	404,850

1/ Estimated on the basis of 12.69 red salmon per case reported by Parks Canning Company.

2/ Basis of 150 fathoms per boat.

TABLE 2. Copper River Drift Gillnet Salmon Catch  
(1952 - 1965)

Year	Kings	Reds	Cohos	Pinks	Chums
1952	29,355	1,136,316	163,740	6,284	1,091
1953 <u>1/</u>	22,198	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	71,415	118	171
<b>TOTAL</b>	<b>185,480</b>	<b>8,583,012</b>	<b>1,840,678</b>	<b>25,365</b>	<b>4,307</b>
<b>AVERAGE</b>	<b>13,249</b>	<b>613,072</b>	<b>131,477</b>	<b>1,812</b>	<b>308</b>

1/ No major operation during coho season.

TABLE 10. Copper River Salmon Case Pack  
(1952 - 1965)

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	89,292
1965	4,814	63,627	6,928	4	17	77,948
<b>TOTAL</b>	<b>55,696</b>	<b>724,138</b>	<b>219,464</b>	<b>1,323</b>	<b>427</b>	<b>1,001,681</b>
<b>AVERAGE</b>	<b>3,978</b>	<b>51,724</b>	<b>15,676</b>	<b>95</b>	<b>31</b>	<b>71,549</b>

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

2/ No major operation during coho season.

\* Estimated.

TABLE 11. COPPER RIVER KING SALMON, 1965  
(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
21	1,155	3,662	92,532	25.66	260	860	14.08	39,000
22	1,888	5,985	156,104	26.08	319	1,116	18.76	47,850
23	1,195	3,787	103,216	28.15	334	1,136	11.34	50,100
24	363	1,213	34,895	28.74	321	1,069	3.78	48,150
25	135	428	13,402	31.39	334	1,279	1.28	50,100
26	39	124	4,212	33.97	293	1,038	0.42	43,950
27	6	18	654	36.33	188	511	0.09	28,200
28	1	5	216	36.00	163	515	0.03	24,450
29	11	32	840	26.25	89	303	0.04	13,350
30	0	0	0	--	74	227	0.00	11,100
31	0	1	35	35.00	44	71	0.03	6,600
34	0	2	90	45.00	91	272	0.02	13,650
35	1	2	62	31.00	179	647	0.01	26,850
TOTAL	4,814	15,259	406,258	26.62	2,689	9,104	49.88	403,350

1/ Estimated case pack on basis of 3.17 king salmon per case reported by Parks Canning Company.

2/ Basis of 150 fathoms per boat.

TABLE 12. COPPER RIVER COHO SALMON, 1965  
(Weekly Catch and Case Pack)

Week No.	Case Pack 1/ (48-1#/cs.)	Total Catch	Total Pounds	Ave. Wt. Per Fish	Number Boats	Number Landings	Ave. No. Fish/Boat	Fathoms 2/ of Gear
26		7	39	5.57	293	1,038		43,950
27		--	--		188	541		28,200
28	1	7	48	6.86	163	545		24,450
29	1	7	46	6.57	89	303		13,350
30		6	57	9.50	74	227		11,100
31	11	105	719	6.85	44	71	2.4	6,600
32	4	39	240	6.15	10	10	3.9	1,500
33		--	--					
34	848	8,741	67,196	7.69	91	272	96.1	13,650
35	1,878	19,360	159,818	8.26	183	655	105.8	27,450
36	C L O S E D							
37	C L O S E D							
38	4,185	43,143	313,771	7.27	117	422	368.7	17,550
TOTAL	6,928	71,415	541,934	7.59	1,252	4,084	576.9	187,800

1/ Estimated case pack on basis of 10.31 coho per case, Table 7.

2/ Basis of 150 fathoms per boat.

## BERING RIVER SALMON

The commercial salmon drift gill net season opened May 17 and continued through the red salmon fishery without interruption until week 36 of the fall coho fishery. Because of the generally poor showing of coho throughout the area the fishery was closed during week 36. Test fishing crews continued to monitor the fishery during the closure. Test fishing results showed good catches which allowed a reopening during week 37 after which fishing continued until closed by field announcement on September 18.

Weekly catch and case pack data is summarized in Tables 13 and 14. The red salmon catch, Table 13, shows the fishery commenced during week 25 about four weeks after the general season opening date which is normal for the Bering River fishery. Fishing effort peaked the following week and dropped rapidly to a mid-season low during week 35 and peaked again during the fall coho season on week 37. Fishing effort was below the previous year probably because of good fishing on the adjacent Copper River fishery and because of poor fishing at Bering River.

The catch of 13,536 reds is below the 1964 catch and is less than one-half the 13 year average of 28,993, Table 15. The coho catch, on the other hand, was only slightly below the average. A total of 52,162 cohos were taken in 1965 as compared to the 13 year average of 54,922.

The case pack of both reds and cohos, Table 16, is down from 1964 and below the average pack for the period since 1953.

**TABLE 13. BERLING RIVER RED SALMON, 1965 1/**  
 (Weekly Catch and Case Pack)

Week No.	Case Pack 2/ (10-1#/cs.)	Total Catch	Total Pounds	Average Wt./Fish	Number Boats	Number Deliveries	Ave. No. Fish/Boat	Fathoms 3/ of Gear
25	383	4,865	32,805	6.74	13	19	374	1,950
26	614	7,794	43,525	5.33	8	84	974	1,200
27	69	659	5,088	5.81	9	19	95	1,350
28	1	16	103	6.44	1	1	16	150
35	0	2	15	7.50	37	53	--	5,550
TOTAL	1,067	13,536	79,536	5.88	68	176	1,459	10,200

- 1/ In addition to the red and coho catch, a total of 6 king salmon were caught.
- 2/ Estimated case pack on the basis of 12.69 red salmon per case reported by Farfus Canning Company.
- 3/ Basis of 150 fathoms per boat.

TABLE 14. BERING RIVER COHO SALMON, 1965  
(Weekly Catch and Case Pack)

Week No.	Case Pack 1/ (18-14/59)	Total Catch	Total Pounds	Ave. Wt. Per Fish	Number Boats	Number Landings	Ave. No. Fish/Boat	Fathoms 2/ of Gear
26	--							
35	454	4,674	37,706	8.07	8	84	0.9	1,200
36	25	262	2,310	8.82	1	3	262.0	5,550
37	2,684	27,574	250,323	9.05	62	235	446.4	150
38	1,896	19,544	182,327	9.33	49	221	398.9	9,300
								7,350
TOTAL	5,059	52,162	472,690	9.06	157	595	1,234.6	23,550

1/ Estimated case pack on basis of 10.31 coho per case, Table 7.

2/ Basis of 150 fathoms per boat.

3/ Closed to fishing this week. Catch from test fishing boat.

TABLE 15. Bering River Drift Gillnet Salmon Catch  
(1953 - 1965)

Year	Kings	Reds	Cohos	Pinks	Chums
1953	26	8,572	0	0	0
1954 <sup>1/</sup>	0	129	91,964	9	1
1955	325	34,121	70,100	50	2
1956	347	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
1965	7	13,536	52,162	7	164
<b>TOTAL</b>	<b>982</b>	<b>376,908</b>	<b>713,988</b>	<b>364</b>	<b>204</b>
<b>AVERAGE</b>	<b>75</b>	<b>28,993</b>	<b>54,922</b>	<b>28</b>	<b>16</b>

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

**TABLE 16.** Bering River Salmon Case Pack 1/  
(1953 - 1965)

<u>Year</u>	<u>Kings</u>	<u>Reds</u>	<u>Chums</u>	<u>Pinks</u>	<u>Chums</u>	<u>Total</u>
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	2,532	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	1,067	5,059	*	16	6,042
<b>TOTAL</b>	<b>292</b>	<b>31,835</b>	<b>86,048</b>	<b>11</b>	<b>19</b>	<b>118,103</b>
<b>AVERAGE</b>	<b>22</b>	<b>2,449</b>	<b>6,619</b>	<b>1</b>	<b>1</b>	<b>9,084</b>

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

\* Less than one case.

## COPPER - BERING RIVER SALMON SPAWNING ESCAPEMENTS

Annual escapement estimates for this area have to be compared only on selected systems. Total estimated escapement is not comparable because each year since 1960 more spawning systems have been added and in some years certain systems are not countable because of muddy or glacial water.

In 1965, five unreported and unknown red salmon spawning areas were located and four more reported systems had spawners for the first time in the years which they have been checked.

The 1965 comparable escapement counts, Table 20, for red salmon in the Copper - Bering River drainage were about average with that estimated annually from 1961 to 1964. In general, the red salmon escapement was higher for the Copper River Delta and down for the upper Copper River systems. Bering River systems continued to be extremely poor.

Escapement in the Copper River drainage is characterized by the sporadic and very ununiform distribution of red salmon runs into different spawning areas when compared on a year to year basis, Table 20. Tokun Lake had 8 to 10 thousand escapement in previous years, but in 1965 it had an estimated 31,000 reds. Bad Crossing area on the Slana River had estimates of 70 in 1963, 30 in 1964, and 6,030 in 1965. Other systems show the reverse of this in that the 1965 spawning estimates were the poorest on record, as in the Gulkana River and Little Martin Lake.

Comparable data is lacking for king salmon escapement but general observations indicate that escapement was improved over the past few years.

Coho escapement figures are also lacking because of the very strong storms and heavy rainfall during October which made surveying impossible.

The trend for spawners was for a poor escapement of the early runs and some improvement during the late runs.

TABLE 17. Estimated Spawning Escapement of Red Salmon  
Bering River District, 1965

System	Estimated Escapement <sup>1/</sup>	Ground Count
Bering Lake	280	170
Dick Creek	4,100	3,959
Shepard Creek	3,500	1,031
Carbon Creek	950	906
Lake Charlotte	muddy	
Oh & Bee Lakes	muddy	
Kushtaka Lake	345	158
Shokum Creek	180	174
Stillwater Creek	muddy	
Trout Creek	20	8
Clear Creek	1,600	1,508
Grandel River	0	
Nichawk River	0	
Okalee River	0	
Edwards River	0	
Campbell River	0	
Katella Creek	0	
Kahuntla Creek	0	
<b>TOTAL</b>	<b>10,975</b>	<b>7,914</b>

<sup>1/</sup> Derived from both aerial and ground surveys.

TABLE 18. Estimated Salmon Spawning Escapement  
Lower Copper River Delta Area, 1965 <sup>1/</sup>

System	Red Salmon					Coho
	Total	Early	Middle	Late	Ground Counts	Season
Eyak Lake	9,430	950	5,290	3,190	9,430	3,500
Ratchery Creek	6,565	1,715	450	4,400	6,565	400
Scott Lake	450	370	0	80		600
Bear Lake	0					0
Ibek Creek	0					2,000
McKinley Lake	180	0	0	180		0
Salmon Creek	900	0	100	800	802	500
25.0 Mile Creek <sup>2/</sup>	25	25	0	0	21	0
25.6 Mile Creek	600	600	0	0	502	0
27.0 Mile Creek	180	180	0	0	164	0
39.0 Mile Creek	2,200	0	80	2,020	1,472	300
Goat Mountain Creek	200		200			
	muddy		muddy			
Pleasant Creek	190	75	115	0		900
Deadwood Lake	75	0	75	0		
Tokun Lake	31,000	1,500	18,000	11,500	18,940	200
Little Martin Lake	230	0	75	155	163	
Martin Lake	8,535	7,035	50	1,450	7,290	50
Pothole Lake	2,350	0	250	2,100	43	100
Ragged Point Lake	1,100	0	1,000	100		
Martin River Slough	3,300	3,300	0	0	2,761	1,400
14 - 15 Mile Slough	0					500
19 Mile Slough	0					300
<b>TOTAL</b>	<b>67,410</b>	<b>15,750</b>	<b>25,685</b>	<b>25,975</b>	<b>48,153</b>	<b>10,750</b>

<sup>1/</sup> Estimated on basis of air and ground counts.

<sup>2/</sup> Spawners were not observed using this system in 1962 - 1964.

**TABLE 19.** Estimated Spawning Escapement 1/ of Red and King Salmon  
Upper Copper River, 1965

System	Red Salmon	King Salmon
	Estimated Escapement	Estimated Escapement
Bremner Lake	40	
Peninsula Lake	1,900	
Little Bremner River	muddy	
Salmon Creek	675	
Tiskel Lake	80	
Chitina Lakes	0	
Long Lake	unknown	
Canyon Creek 2/	20	
Tana Lake 2/	300	
Tana Lake Outlet 2/	40	
Nizina River 2/	40	
Tanada Lake	3,300	
Copper Lake	3,300	
Suslota Lake	muddy	
Sinona Creek	0	48
Mentasta Lake & Fish Creek	6,500	
Selana River	6,030	
Ahtell Creek	0	11
Indian Creek	0	muddy
Mankomen Lake	0	
East Fork Chistochina	120	590
Gun Creek	10	
Fish Lake	9,000	
Summit Lake	0	
<u>Gulkana River</u>		
Summit Lake to Paxson	4,000	
Paxson, Mud Creek, Mud Lake	4,000	
Paxson Lake Outlet	4,000	15
Middle Fork	110	54
Swede Lake	unknown	
Dickey Lake	unknown	
West Fork Gulkana	1,070	1,190
Oldman Lake & Mendeltna Creek	3,000	285
Taslina Lake	muddy	
Kiana Creek	50	82
Saint Anne Creek	5,800	308
Klutina Lake	muddy	
Mahlo Creek	3,300	162
Manker Creek	0	15
Tonsina Lake	muddy	
Grayling Creek	0	9
Little Tonsina River	0	20
<b>TOTAL</b>	<b>56,685</b>	<b>2,789</b>

1/ Derived from aerial and/or ground counts.

2/ Spawning systems not counted in previous years.

**TABLE 20.** Comparable Estimated Red Salmon Spawning Escapement on Selected Systems,  
Copper-Bering River Districts, 1961 - 1965

System	1961	1962	1963	1964	1965
Eyak Lake		20,200	17,900	13,550	15,995
McKinley Lake		4,200	2,900	1,470	1,080
39 Mile		1,800	2,400	1,850	2,100
Tokun Lake		8,000	10,000	8,900	31,000
Little Martin Lake		1,880	1,450	650	230
Martin Lake		8,400	9,900	6,600	10,885
Martin River Slough		5,400	8,280	2,650	3,300
<b>Copper River Subtotal</b>		<b>49,880</b>	<b>43,830</b>	<b>35,670</b>	<b>64,590</b>
Bering Lake		200	15	400	280
Dick Creek		16,000	4,500	2,700	4,100
Kushtaka Lake		2,100	1,580	1,450	525
Clear Creek		2,200	1,800	1,500	1,600
Trout Creek		250	150	50	20
<b>Bering River Subtotal</b>		<b>20,750</b>	<b>8,045</b>	<b>6,100</b>	<b>6,525</b>
Mentasta Lake	850	2,000	10,050	800	6,500
Gulkana River	47,200	46,318	39,240	16,800	13,180
St. Anne's Creek	2,050	2,250	1,950	1,500	5,800
Mahlo Creek	5,500	270	6,530	150	3,300
Manker Creek		0	10	0	0
Bad Crossing	4,500	1,385	70	30	6,030
Mendeltna Lake	1,150	4,650	11,940	760	3,000
<b>Upper Copper River Subtotal</b>	<b>61,250</b>	<b>56,873</b>	<b>69,790</b>	<b>20,040</b>	<b>37,810</b>
<b>Copper Delta</b>		<b>49,800</b>	<b>43,830</b>	<b>35,670</b>	<b>64,590</b>
<b>Bering River District</b>		<b>20,750</b>	<b>8,045</b>	<b>6,100</b>	<b>6,525</b>
<b>Upper Copper River</b>	<b>61,250</b>	<b>56,873</b>	<b>69,790</b>	<b>20,040</b>	<b>37,810</b>
<b>TOTALS</b>	<b>61,250</b>	<b>127,503</b>	<b>121,665</b>	<b>61,810</b>	<b>108,925</b>

## PRINCE WILLIAM SOUND SALMON

### General purse seine season.

Aerial surveys made over Prince William Sound waters prior to the scheduled opening date of July 5 (Table 21) did not indicate a strong run of early pink or chum salmon and the season opened as scheduled in the published regulations. In addition, early purse seine and drift gill net fishing in the Coghill district prior to July 5 tended to substantiate aerial observations.

Prediction studies on the returning run had indicated a fair to poor run of pink salmon to early streams. This information coupled with the optimistic reports from the Fisheries Research Institute, from high seas tagging, gave hope of a fair returning run of pink salmon. The total prediction, "Forecast Research on 1965 Central Alaska Pink Salmon Fisheries", Robert S. Roys and W. H. Noerenberg, Informational Leaflet 65, indicated a pink run in the magnitude of about 4.1 million.

Tables 25 through 28 summarize the weekly catch and case pack by species. The fishery had a slow start the opening week with only 17 vessels participating. Effort increased rapidly during the second week and reached a peak during the fourth week or week 31. Total catch by species is as follows: pinks, 2,190,471; chum, 150,053; red, 48,909; king, 353; and 7,711 coho salmon.

There was considerable speculation and optimism early in the purse seine fishing on what to expect in the way of a pink salmon run. Early indications from catch data showed a poor early run which was further substantiated by aerial surveys of spawning escapements. Timing appeared to be normal on the spawning grounds but even though early indications pointed to a poor run there was still considerable optimism for a build-up of the pink run during the middle and late run phase on the basis

of the high seas tagging report. As the season progressed into the middle run phase, the earlier optimism began to wane as escapement and catch data continued to show the pink run would probably not exceed the forecast and would actually fall below, which it did, Tables 24, 25, 30 and 31.

The total catch converted to case pack is based on the case pack figures from Parks Canning Company.

Weekly case packs, by species, for 1965 is shown in Tables 25 to 28. Annual case pack and catch since 1946 is summarized in Tables 23 and 24. The twenty year average shows the catch and pack of both kings and reds were above the average and pink, chum and coho below the average.

A summary and comparison of gear operated is shown in Table 22 for both Prince William Sound and Copper River for the years since 1953. There was an increase in all gear for all fisheries except for the coho season on Copper River which showed a decrease.

TABLE 21. Prince William Sound Summary of Fishing Seasons, 1948 - 1965

Year	GENERAL AREA:		Season Extensions	SPECIAL AREA OPENINGS AND CLOSURES:						
	Opening Date	Closing Day		Special Closures	Weekly Closures	Eshamy 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
1951	0600 7/1	0600 8/1	none	8/1-6	48 hrs.	1800 8/22	none	none	Coghill	
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	none	0900 9/3	1800 9/6	none
1958	0600 7/10	0600 8/6	none	8/6-9	48 hrs.	CLOSED	none	none	none	none
1959	CLOSED					CLOSED				
1960	1201 7/11	1800 8/3	none	7/4-10	72 hrs.	CLOSED	none	none	none	7/16 West Side
1961	0600 8/1	1800 8/14	3/			1200 8/18	0600 8/15	1800 8/18	1200 6/12	
										(opening) (closing)
										1200 7/14
1962	0600 8/8	1800 8/14								
1963	0500 7/1	1900 8/19	5/							
1964	0600 7/13	0600 8/15	5/	8/16-21	48 hrs.	CLOSED				
1965	0600 7/5	1800 8/3	5/	none	48 hrs.	CLOSED	5/			0600 6/21 open

1/ Season closure by time table released to allow all gear to fish until closure 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/ 11-hour fishing day.  
 5/ Refer to special regulatory changes by field announcement. (Also Table 52 for fishing time in 1965).  
 6/ For fishing seasons prior to 1948 refer to 1948 Annual Report.

TABLE 22. Summary of Salmon Gear Operated, 1953 - 1965 1/

Year	PRINCE WILLIAM SOUND			COPPER RIVER DRIFT GILLNETS <u>2/</u>	
	Traps	Purse Seines	Gill Nets <u>2/</u>	Red Season	Coho Season
1953	21	76	15,450 <u>3/</u>	75,000	7,900
1954	C L O S E D		4,725 <u>4/</u>	87,000	27,000
1955	C L O S E D		4,400 <u>4/</u>	88,050	25,000
1956	26	132	4,600 <u>4/</u>	74,100	--
1957	11	152 <u>5/</u>	4,400 <u>4/</u>	77,700	30,000
1958	13	183	CLOSED	75,900	--
1959 <u>6/</u>		CLOSED	CLOSED	53,250	25,050
1960		223	CLOSED	59,400	34,050
1961		102	3,750 - Coghill 4,200 - Eshamy <u>7/</u>	50,550	25,650
1962		237	8,550 - Coghill 3,750 - Eshamy <u>7/</u>	59,100	27,450
1963		281	3,450 - Coghill	61,650	37,950
1964		154	8,850 - Coghill	43,350	30,900
1965		208	3,900 - Coghill 6,150 - Eshamy <u>7/</u>	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.

**TABLE 23. PRINCE WILLIAM SOUND ANNUAL SALMON CASE PACK, 1946 - 1965, 1/ 4/**

Year	Reds	Kings	Pinks	Chums	Cohos	Total
1946	9,529	372	315,972	72,571	25,674	414,118
1947	17,176	180	376,125	63,676	6,240	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	6,589	106	135,189	24,129	1,221	167,234
1962	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
1965	9,880	345	93,870	19,435	1,345	124,875
<hr/>						
TOTAL 3/	148,522	3,171	3,042,537	1,005,358	79,690	4,279,277
<hr/>						
AVERAGE 3/	8,737	187	178,973	59,139	4,686	251,722
<hr/>						

1/ Case pack on the basis of 48-1 pound cans per case. Case pack estimates include Eshamy and Coghill Districts and troll catches.

2/ Beginning in 1960, the case pack is estimated by using the total catch and the number of salmon per case at Cordova plants.

3/ Excluding the years 1954, 1955, and 1959 when purse seining closed.

4/ For case pack data prior to 1946 refer to 1964 annual report.

\* Eshamy only.

TABLE 24. PRINCE WILLIAM SOUND ANNUAL SALMON CATCH, 1946 - 1965, 1/5/

Year	Reids	Kings	Pinks	Chums	Cohos	Total
1946	110,787	1,669	8,026,032	757,173	159,011	9,054,672
1947	199,208	781	8,077,230	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	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	6,213	--	12,309	6,047	543	25,112
1955	12,921	--	26,927	4,785	592	45,223
1956	172,950	111	4,827,264	497,474	27,498	5,525,297
1957	61,946	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 M D			
1960	35,176	1,580	1,841,899	381,858	30,722	2,291,235
1961	55,551	406	2,287,766	221,951	3,335	2,569,009
1962	44,679	1,834	6,513,081	871,858	17,888	7,479,340
1963	39,746	449	5,248,773	933,133	30,998	6,253,099
1964	37,517	65	4,189,505	521,711	30,914	4,779,712
1965	118,563	1,095	2,387,131	198,824	13,863	2,719,476
TOTAL	1,521,249	14,584	66,143,672	9,283,768	740,706	77,703,979
AVERAGE 1/5	89,485	858	3,890,804	546,104	43,571	4,570,622

1/ Catch by all gear from all districts of Prince William Sound.  
 2/ Estimated catch using conversion of case pack.  
 3/ Eshamy district catch only. General season closed.  
 4/ Excluding the years 1954, 1955 and 1959.  
 5/ For catch data prior to 1946 refer to 1946 annual report.

TABLE 25. PRINCE WILLIAM SOUND PINK SALMON - 1965  
PURSE SEINE (Weekly Catch and Case Pack) 3/

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/
28	1,026	25,091	88,772	3.41	17	87	1,535	5
29	3,850	97,897	323,184	3.30	104	282	941	5
30	22,297	567,003	1,843,511	3.25	173	668	3,277	5
31	44,482	1,131,180	3,696,282	3.27	175	732	6,464	5
32	14,483	368,300	1,235,427	3.35	169	228	2,179	5
TOTAL	86,138	2,190,471	7,189,176	3.28	638	1,997	14,396	22

- 1/ Estimated case pack on basis of 25.43 pink salmon per case from average reported by Parke's Canning Company.
- 2/ Fishing day from 6:00 a.m. to 6:00 a.m., 24 hours per day except during week 32 the fishing day was 6:00 a.m. to 6:00 p.m.
- 3/ In addition, 353 king salmon were taken.

TABLE 26. PRINCE WILLIAM SOUND CHUM SALMON - 1965  
PURSE SEINE (Weekly Catch and Case Pack)

Week	Case Pack 1/ (10-1#/case)	Total Catch	Total Pounds	Ave. Pounds Per Fish	No. Units of Gear	Number Landings	Ave. No. Fish/Boat	No. Fishing Days/Week
28	1,074	10,983	91,043	8.29	17	87	646	5
29	3,271	33,462	275,143	8.22	104	282	322	5
30	5,781	59,141	472,455	7.99	173	668	342	5
31	3,864	39,524	331,249	8.38	175	732	226	5
32	679	6,943	57,422	8.27	169	228	41	2
TOTAL	34,669	150,053	1,227,317	8.18	638	1,997	1,577	22

1/ Estimated case pack on basis of 10.23 chum salmon per case from average reported by Parks Canning Company.

TABLE 27. PRINCE WILLIAM SOUND RED SALMON - 1965  
PURSE SEINE (Weekly Catch and Case Pack)

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
28	366	4,578	29,629	6.47	17	87	269	5
29	434	5,419	35,537	6.56	104	282	52	5
30	891	11,134	76,654	6.88	173	668	64	5
31	1,585	19,818	135,898	6.86	175	732	113	5
32	637	7,960	56,892	7.15	169	228	47	2
<b>TOTAL</b>	<b>3,913</b>	<b>48,909</b>	<b>334,610</b>	<b>6.84</b>	<b>638</b>	<b>1,997</b>	<b>545</b>	<b>22</b>

1/ Estimated case pack on basis of 12.5 red salmon per case.

TABLE 28. PRINCE WILLIAM SOUND COHO SALMON - 1965  
PURSE SEINE (Weekly Catch and Case Pack)

Week	Case Pack 1/ (10.31/case)	Total Catch	Total Pounds	Ave. Pounds No. Per Fish	Units of Gear	Number Landings	Ave. No. Fish/Boat	No. Fishing Days/Week
28	1	14	116	8.29	17	87	1	5
29	73	746	5,138	6.89	104	282	7	5
30	271	2,793	21,564	7.72	173	668	16	5
31	337	3,474	25,549	7.35	175	732	20	5
32	66	684	5,494	8.03	169	228	4	2
TOTAL	748	7,711	57,861	7.50	638	1,997	48	22

1/ Estimated case pack on basis of 10.31 coho per case from average reported by Parks Canning Company.

AERIAL AND GROUND SURVEYS OF PRINCE WILLIAM SOUND  
SALMON SPAWNING STREAMS

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

During the 1965 season several emergency orders were issued to allow additional harvest in one instance and to curtail fishing in several specific areas. Refer to section on, "Salmon and Dungeness Crab Fishing Seasons," page 9, which gives the specific areas affected.

Salmon spawning escapement estimates are summarized in Tables 29, 30a to 30h, 31, 32a to 32f, and 33. The escapement of red salmon, Table 29, is above 1964 which reflects the relatively good runs experienced in 1965.

The escapements of both pink and chum salmon were down from 1964. The pink escapement was generally adequate, however, the distribution was poor resulting in poor spawning escapements to specific areas. For instance, the streams on the west shore of Port Wells were apparently seriously effected by the Good Friday Earthquake and received low spawning escapements in 1965. Other areas in Prince William Sound were similarly effected and also received low spawning escapements, Tables 30a to 30h.

A poor returning run of chum salmon was experienced throughout Prince William Sound in 1965. As a result, a poor escapement of 195,640 chums, Table 29, was realized. Escapements to individual streams is given in Tables 32a to 32f.

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

Total Estimated Spawning Escapement by District 1/

1965

District	Number of Streams Surveyed	Pinks	Chums	Reds
Eastern	106	257,850	69,170	7,500
Northern	50	59,820	20,980	6,000
Northwestern - Coghill	58	250,600	39,680	85,200
Southwestern - Eshamy	55	265,270	1,830	111,460
Montague	50	77,040	17,500	100
Southeastern	50	65,380	46,480	0
<b>TOTAL</b>	<b>369</b>	<b>975,960</b>	<b>195,640</b>	<b>210,260</b>

1/ Number of salmon rounded to nearest ten.



TABLE 30a. PRINCE WILLIAM SOUND PINK SALMON, 1965 cont.  
(Live Counts in Streams) 2/ 4/

Stream No. <u>5/</u>	Stream or Bay	WEEK ENDING												Calculated Season Total
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18	
Other Streams <u>2/</u>			0	25	78	870	29	1897	1640	7145	2855	0	15	30625
DISTRICT TOTAL <u>3/</u> (106 Streams)		5800	7175	13084	23305	21113	29257	106600	19085	151345	68690	18305	257853	

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 30b. PRINCE WILLIAM SOUND PINK SALMON, 1965  
(Live Counts in Streams) 1/ 4/

Stream No.	Stream or Bay	WEEK ENDING												Calculated Season Total		
		<u>7/3</u>	<u>7/10</u>	<u>7/17</u>	<u>7/24</u>	<u>7/31</u>	<u>8/7</u>	<u>8/14</u>	<u>8/21</u>	<u>8/28</u>	<u>9/4</u>	<u>9/11</u>	<u>9/18</u>			
224	Backyard Creek					0		500		2500						3140
229	Cedar Creek		0			0		1700		2500						4160
234	Wells River		300			7500		10000		1800						17800
241	Cannery Creek		0			0		2500		2300						5000
258	Jonah Creek					0		3500		4100						7960
264	Siwash Creek					0	0	0		300						340
279	Canyon Creek					0		0		2600						3600
	Other Streams <u>2/</u>		50	200	0	100	150	570		11100						17820
DISTRICT TOTAL <u>3/</u> (50 Streams)		0	350	800	1350	7600	14200	22170	29290	33580	25810	11200	3200			59820

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 30c.  
 PRINCE WILLIAM SOUND PINK SALMON, 1965  
 (Live Counts in Streams) 1/ 4/

Stream No.	COGHILL DISTRICT	WEEK ENDING												Calculated Season Total		
		<u>5/</u>	7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11		9/18	
322	Coghill River			<u>2000</u>	<u>5000</u>	16000	20400		21400		26200					62000
	Other Streams <u>2/</u>								<u>51</u>		<u>450</u>					820
DISTRICT TOTALS <u>3/</u>			0	2000		16000	20400	20000	41451	23500	26950	20500	1250	0		62820
(14 Streams)			0		5000											

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream numbering system revised in 1962.
- 5/ Stream numbering system revised in 1962.

TABLE 30d. PRINCE WILLIAM SOUND PINK SALMON, 1965  
(Live Counts in Streams) 1/4

NORTHWESTERN DISTRICT

WEEK ENDING

Calculated

Stream	Stream or Bay	7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18	Season Total
421	Mill Creek	0	0		0	0		1700		1400	4440			5976
428	Pirate Creek	0	0		0			500		100	100			620
430	Meacham Creek	0	0		0	0		110		3200	2620			3912
432	Swanson Creek	0	0		0	200		5100		11000	11340			18256
435	Logging Camp Creek	0	0		100			1100						7800
450	Tebenkof Creek	0	0			0				100				160
454	Halferty Creek	0	0			0		2000		3100				5040
455	Paulson Creek	0	0			300		1600		2200				3640
471	Wickett Creek							1000			490			1456
476	Shrode Creek	0	0		0	300		16600		70000	65110			95616
480	Mink Creek	0	0		0	300		5010		12300				16044
484	East Finger Creek							110		200				584
485	West Finger Creek							670		1800				2188
	Other Streams <u>2/</u>	0	0	0				3760		10450	713			26488

DISTRICT TOTALS <u>3/</u>		0	0	0	100	1700	22590	40336	74030	131550	114663	58405	16460	187775
(45 Streams)														

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 30e. PRINCE WILLIAM SOUND PINK SALMON  
(Live Counts in Streams) 1/4/

Stream No.	ESHAMY DISTRICT Stream or Bay	WEEK ENDING												Calculated Season Total	
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18		
510	Eshamy Lagoon														2500
510	Eshamy River														1500
	Other Streams <u>2/</u>														1500
DISTRICT TOTALS <u>3/</u> (6 Streams)		0	0	0	0	0	800	2749	5600	7500	5000	1700	0	9340	

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 30F.  
 PRINCE WILLIAM SOUND PINK SALMON, 1965  
 (Live Counts in Streams) 1/4/

Stream No. <u>5/</u>	Stream or Bay	WEEK ENDING										Calculated Season Total				
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4		9/11	9/18		
603	Ewan Creek		0			0				4000						7612
608	Jackpot River		0		0			1800		20000						32000
628	Chenegea Creek					0				450						660
630	Bainbridge Creek				0	0		1000		3500						4080
	Other Streams ( <u>45</u> ) <u>2/</u>		0			200		2180		13870						21028
DISTRICT TOTAL <u>3/</u> (49 Streams)			0	0	0	200	10450	21180	32050	411820	37300	15300	5150			65380

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 30G. PRINCE WILLIAM SOUND PINK SALMON, 1965  
(Live Counts in Streams) 2/4/

Stream No.	Stream or Bay	WEEK ENDING												Calculated Season Total		
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18			
703	Clam Beach Creek							0		1600						1720
707	Macleod Creek							50		2500						2860
736	W. Shore, Montague Is.					0		0		0						
739	Swamp Creek					0		200								1120
741	Chalmers River					0		50		1100						2540
745	Wild Creek					0		0		1100						1932
746	Schuman Creek					0		3		1800						2881
747	Cabin Creek					0		2200		2200						3920
749	Shad Creek					0		827		2900						7891
752	Stockdale Creek					0				3400						6680
759	Rocky Creek					0				2800						4440
770	Udall Creek					0				400						1284
775	Pautzke Creek					0				1100						2656
	Other Streams					2/		500		27400						37118
DISTRICT TOTALS		3/	0	0	0	0	0	4530	24450	51300	62600	35725	13900	77042		
(50 Streams)																

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 30h. PRINCE WILLIAM SOUND PINK SALMON, 1965  
(Live Counts in Streams) 1/4/

Stream No.	Stream or Bay	WEEK ENDING											Calculated Season Total			
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11		9/18		
806	Dog Salmon Creek					0		1700	3500	3100						5040
810	Garden Creek					0		<u>270</u>	700	2000						1882
812	Constantine Creek				100	100		350	6500	19000						20500
817	Deer Creek					100		1600		3500						5120
818	Juania Creek					1000		<u>7060</u>		6300						13584
821	Brown Bear Creek				150	2000		<u>7000</u>	3500	6500						11060
823	Johnstone Creek							100	1500	2100						160
827	Captain Creek							5000	5000	12300						2980
828	Cook Creek					0		300	3000	1200						13800
829	King Creek					0		3000	6500	10500						1280
831	Double Creek					0		7500	7500	22400						12400
834	Hardy Creek					0				30000						25560
835	Scott Creek					0										35000
836	Dan's Creek					0										
837	Dan's Bay					0										
839	Dan's Bay					0		1000	2000	3700						6600
844	Makaraka Creek					0		200	800	5100						3240
847	Hawkins Creek					0		5000	5000	5600						4960
849	Rollin Creek					0		0	0	3640						8640
850	Gamoe Creek					0		<u>1316</u>	<u>500</u>	<u>5000</u>						3856
851	Zillesenoff Creek					0		50	50	7740						7740
856	Cedar Bay					0		0	800	128						2188
857	Cedar Bay					0		<u>52</u>	<u>4750</u>	<u>1610</u>						128
861	Bernard Creek					0										1610
862	Clandigger Creek					0										12600
863	Orca Creek					0			50							60

1 2 3 4

TABLE 30b. PRINCE WILLIAM SOUND PINK SALMON, 1965 cont.  
(Live Counts in Streams) 1/4/

Stream No.	Stream or Bay	WEEK ENDING												Calculated Season Total		
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18			
867	Trail Creek				450	1000	37	1035	14590	47560				500	100	55983
	Other Streams	2/														
DISTRICT TOTALS		3/	0	0	700	4200	11237	31637	82586	213760	173740	92580	29375			255926
(49 Streams)																

- 1/ Ground counts underlined.
- 2/ From records maintained on small streams which usually have a total of less than 2000 pinks.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life calculated from stream life factor of 2.5 weeks.
- 5/ Stream numbering system revised in 1962.

TABLE 31. RECAPITULATION OF WEEKLY PINK SALMON COUNTS BY DISTRICT, 1965  
(Live Counts in Streams) 1/

No. of Streams	DISTRICT	7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18	Calculated
														Season Total
106	Eastern	700	5800	7175	13084	23305	21113	29257	106600	19085	151345	68690	18305	257850
50	Northern		350	800	1350	7600	14200	22170	29290	33580	25810	11200	3200	59820
14	Coghill		2000	5000	16000	20400	20000	21451	23500	26950	20500	1250	0	62820
45	Northwestern				100	1700	22590	40336	74030	133550	114663	58405	16460	187780
6	Eshamy						800	2749	5600	7500	5000	1700	0	9340
49	Southwestern				700	4200	11237	31637	82586	213760	173740	92580	29375	255930
50	Montague							4530	24450	51300	62600	35725	13900	77040
49	Southeastern					200	10450	21180	32050	41820	37300	15300	5150	65380
369	P. W. S.		8150		31234		100390		378106		590958		86390	
	TOTAL	700	12975		57405		173310		701545		284850		975960	

1/ Totals rounded to nearest 10 salmon.



TABLE 32b. PRINCE WILLIAM SOUND CHUM SALMON, 1965  
(Live Counts in Streams) 7/4/

Stream No.	Stream or Bay	NORTHERN DISTRICT											Calculated Season Total			
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11		9/18		
211	Long Creek		0			0		1300		2100						4200
216	Vanishing Creek		0					300		1400						1680
229	Cedar Creek				600	190				200						790
231	Wells River					<u>2630</u>		3500		200						6212
	Other Streams	<u>2/</u>				<u>36</u>		2150		5500						8176
DISTRICT TOTALS <u>3/</u> (19 Streams)		0	1200	2300	3480	3806	6035	7620	7350	10400	6650	2775	925		20984	

- 1/ Ground survey counts underlined; others are aerial counts.
- 2/ Streams with less than 2000 chum salmon total escapement.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 2.5 weeks unless otherwise noted.

TABLE 32c. PRINCE WILLIAM SOUND CHUM SALMON, 1965  
(Live Counts in Streams) 1/4/

Stream No.	Stream or Bay	WEEK ENDING												Calculated Season Total		
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18			
322	Coghill River					5400	5000	8100		1600						13200
421	Mill Creek		0		0	100		<u>2170</u>		1400				<u>1860</u>		3972
425	Hummer Creek		0		0	0	50			900						1100
432	Swanson Creek		0		100	350	200	1400		2000				<u>240</u>		2496
458	Parks Creek		0		0	0		<u>100</u>								360
476	Shrode Creek		0		0			190						900		1096
480	Mink Creek		0		0	50		<u>270</u>						<u>100</u>		688
484	East Finger Creek		0		0	300		<u>860</u>		300				300		1404
	Other Streams <u>2/</u>	0	0	0	0	1700	850	<u>5374</u>	0	3800				1460	0	15359
DISTRICT TOTAL <u>3/</u> (37 Streams)		5	1010	3320	6101	8150	12075	22174	16480	15150	9810	3800	850			39675

- 1/ Ground survey counts underlined; others are aerial counts.
- 2/ Streams with less than 2000 chum salmon total escapement.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 2.5 weeks unless otherwise noted.

TABLE 32d. PRINCE WILLIAM SOUND CHUM SALMON, 1965  
(Live Counts in Streams) 1/4/

ESHAMY - SOUTHWESTERN DISTRICTS Stream No.	WEEK ENDING											Calculated Season Total		
	Stream or Bay	7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4		9/11	9/18
613 Jackson Creek					300									680
Other Streams <u>2/</u>			20			20		208						1149
DISTRICT TOTAL <u>3/</u> (11 Streams)		60	120	210	300	621	1440	388	326	1008	800	300	0	1829

- 1/ Ground survey counts underlined; others are aerial counts.
- 2/ Streams with less than 2000 chum salmon total escapement.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 2.5 weeks unless otherwise noted.

TABLE 32e. PRINCE WILLIAM SOUND CHUM SALMON, 1965  
(Live Counts in Streams 1/4/)

MONTAGUE DISTRICT No.	Stream or Bay	WEEK ENDING												Calculated Season Total			
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18				
739	Swamp Creek					0		0									
741	Chalmers River					0		1205		6500	11590	1000					14958
	Other streams <u>2/</u>							<u>11</u>		900	1950						2545
DISTRICT TOTAL <u>3/</u> (7 Streams)		0	0	0	0	0	600	1269	4100	7900	14040	10300	4550				17503

- 1/ Ground survey counts underlined; others are aerial counts.
- 2/ Streams with less than 2000 chum salmon total escapement.
- 3/ Contains interpreted data where surveys lacking on certain weeks.
- 4/ Stream life factor 2.5 weeks unless otherwise noted.

TABLE 32f. PRINCE WILLIAM SOUND CHUM SALMON, 1965  
(Live Counts in Streams) 1/ 4/

Stream No.	Stream or Bay	WEEK ENDING												Calculated Season Total
		7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18	
815	Constantine Creek				350	2350		5715	2000	5000	20500		3000	20406
821	Brown Bear Creek				5500	12000			200					10760
835	Scott Creek					0			800	3000				2720
	Other Streams <u>2/</u>				300	0	797	3200	9050	3000		0	0	12594
DISTRICT TOTALS <u>3/</u> (15 Streams)		0	100	3100	5950	14650	5860	9312	9153	17150	30300	16525	41100	46480

- 1/ Ground survey counts underlined; others are aerial counts.
- 2/ Streams with less than 2000 chum salmon total escapement.
- 3/ Data are interpreted where surveys lacking on certain weeks.
- 4/ Stream life factor 2.5 weeks unless otherwise noted.

TABLE 33. RECAPITULATION OF WEEKLY CHUM SALMON COUNTS BY DISTRICT, 1965  
(Live Counts in Streams) 1/

No. of Streams	DISTRICT	Date														Calculated Season Total
		6/26	7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18		
46	Eastern	2095	6700	10863	13100	14980	18275	20418	18585	18775	18949	14707	10315	5155	69170	
19	Northern	0	0	1200	2300	3400	3806	6035	7620	7350	10400	6650	2775	925	20980	
37	Northwestern- Coghill	0	5	1010	3320	6101	8150	12075	22474	16480	15150	9810	3800	850	39680	
11	Southwestern- Eschamy	0	60	120	210	300	621	440	388	326	1008	800	300	0	1830	
7	Montague	0	0	0	0	0	0	600	1269	4100	7900	14040	10300	4550	17500	
15	Southeastern	0	0	100	3100	5950	14650	5860	9312	9153	17150	30300	16525	4100	46480	
135	P. W. S.	2095	6765	13293	22030	30731	45502	45428	59648	56184	70557	76307	44015	15580	195640	
	TOTAL															

1/ Totals rounded to nearest 10 salmon.

ESHAMY DISTRICT  
PRINCE WILLIAM SOUND

In expectation of a poor returning red salmon run, the Eshamy District was closed to fishing in 1965. The returning run was, however, better than expected and a limited fishery was allowed by field announcement. Table 38 shows the weekly catch and case pack by species for the three weekly fishing periods when fishing was allowed. Fishermen caught 15,456 reds, 76 cohos, 550 pinks and 649 chums.

The 1965 spawning escapement to Eshamy River and Lake is shown by the daily weir count presented in Table 34. Comparative weir counts, Table 35, show the 1965 escapement to be the largest since 1950 and historical records show the escapement to be the second largest on record for Eshamy weir. Fortunately, in 1965, the weir count was extended to the end of September where the normal closing date is generally about September 15. In 1965, approximately fifty percent of the total red salmon escapement was counted after September 15, Tables 34 and 36.

Comparable counts, by species, since 1950 is listed in Table 35. The 1965 red salmon escapement of 108,963 is more than three times as large as the 16 year average.

Table 37 shows comparable case pack data, by species, since 1950. The average pack for each species does not include the case pack from the limited 1965 fishery.

TABLE 34. ESHAWY RIVER DAILY WEIR COUNT, 1965

RED SALMON COUNT

COUNTS OF OTHER SPECIES

Date	Water Temp.	Air Temp.	Water Level	General Weather	Daily Count by Sex			Daily Total	Weekly Total	Cumulative Total	COHO	PINK	CHUM
					♂	♀	Total						
6/24	39°F	45°F	.50'	Rain				0					
25	39°	43°	.50'	Cloudy				0					
26	40°	47°	.49'	Fair				0					
27	40°	43°	.48'	Cloudy				0					
28	40°	48°	.46'	Cloudy				0					
29	40°	44°	.45'	Rain				0					
30	41°	51°	.59'	Rain				0					
7/1	43°	44°	.62'	Rain				0					
2	42°	48°	.71'	Rain				0					
3	40°	45°	.95'	Rain				0					
4	41°	45°	.90'	Cloudy				0					
5	42°	47°	.78'	Fair				0					
6	43°	49°	.71'	Fair				0					
7	44°	54°	.67'	Fair				0					
8	46°	63°	.58'	Rain				0					
9	48°	53°	.61'	Fair	1			1					1
10	50°	63°	.52'	Fair	9	10	11	30					2
11	54°	54°	.49'	Rain	50	11	64	125					32
12	55°	53°	.50'	Rain	13	2	15	30					157
13	54°	53°	.49'	Rain	86	4	166	258					187
14	50°	52°	.51'	Rain	148	2	290	440					445
15	50°	52°	.47'	Rain	26	2	38	66					885
16	50°	53°	.42'	Rain	1	1	1	2					951
17	52°	50°	.38'	Rain	14	2	17	33					953
18	52°	52°	.38'	Rain	2		1	3					986
19	52°	54°	.39'	Fair	10	10	11	21					989
20	52°	50°	.39'	Rain	12	1	12	25					1010
21	52°	50°	.36'	Cloudy	205	4	309	518					1035
22	51°	52°	.35'	Rain	153	6	258	417					1553
23	52°	49°	.38'	Rain	7	1	13	21					1970
24	52°	50°	.35'	Rain	289	6	411	706					1991
25	53°	53°	.32'	Fair	14		20	34					2597
								34	1742				2731

Weir in operation at 5:00 p.m.

TABLE 34, continued

Date	Water Temp.	Air Temp.	Water Level	General Weather	Daily Count of Jack	Sex	RED SALMON COUNT		COUNTS OF OTHER SPECIES		
							Daily Total	Weekly Total	Cumulative Total	COHO	PINK
8/30	54°	54°	.00'	Fair	709	21	691	1421			
31	51°	51°	.00'	Fair	286	6	276	568			1
9/1	51°	52°	.00'	Fair	19	2	15	36			
2	55°	52°	.00'	Fair	57	4	44	101			
3	55°	52°	.00'	Cloudy	75	4	53	132			4
4	55°	54°	.00'	Rain	7		3	10			
5	55°	54°	.00'	Rain	111	4	74	189			
6	56°	54°	.00'	Rain	202		128	330			
7	55°	52°	.00'	Rain	17	2	33	52			
8	55°	52°	.00'	Cloudy	11		7	18			
9	54°	54°	.00'	Fair	706	4	462	1172			10
10	54°	52°	.00'	Cloudy	176	8	140	324			
11	54°	52°	.00'	Cloudy	8		4	12			
12	55°	52°	.00'	Rain	13		8	21			
13	54°	52°	.21'	Rain				0			
14	53°	52°	.40'	Rain	5929	32	6424	12385			
15	53°	52°	.40'	Rain	5714	14	6190	11918			245
16	52°	52°	.41'	Cloudy	5978	5	6742	12725			120
17	53°	52°	.37'	Cloudy	1886	5	2516	4407			45
18	53°	51°	.37'	Cloudy	3448	8	4552	8008			21
19	53°	52°	.37'	Cloudy	2169		1703	3872			33
20	53°	52°	.36'	Fair	536		567	1103			26
21	53°	50°	.36'	Rain	377		691	1068			5
22	52°	52°	.31'	Rain	17		20	37			3
23	52°	50°	.40'	Fair	11	1	13	26			
24					1	2	2	3			
25								3			
26								0			
TOTAL					51347	511	57105	108963	532	5441	6
								108963			
								2238			

\* Estimated.  
 1/ Weir removed at 4:00 p.m. No salmon seen in bay on date weir removed.

TABLE 34, continued

Date	Water Temp.	Air Temp.	Water Level	General Weather	FED SALMON COUNT			COUNTS OF OTHER SPECIES				
					Daily Count	by Sex	Daily Total	Weekly Total	Cumulative Total	COHO	PINK	CHUM
					♂	♀	Total	Total	Total			
7/26	55°	61°	.30'	Fair	69	97	168		2899			
27	56°	59°	.27'	Fair	1027	1178	2210		5109	1	1	
28	56°	56°	.24'	Cloudy	1		1		5110			
29	56°	57°	.21'	Cloudy	230	263	496		5606			
30	56°	56°	.19'	Rain	420	425	848		6454			
31	56°	55°	.20'	Rain	346	356	703		7157	1	5	
8/1	56°	57°	.19'	Cloudy	486	519	1007		8164	2	3	
2	56°	57°	.17'	Cloudy	25	22	47		8211			
3	56°	58°	.16'	Fair	7	7	14		8225			
4	56°	59°	.14'	Fair	22	24	46		8271			
5	59°	59°	.14'	Fair	22	54	121		8392		1	
6	59°	59°	.13'	Fair	67	106	233		8625	1	1	
7	59°	59°	.11'	Fair	127		0		8625			
8	55°	59°	.12'	Rain	377	328	707		9332		1	
9	59°	57°	.14'	Fair	2	5	7		9339			
10	61°	58°	.15'	Fair	482	587	1070		10409		103	
11	59°	58°	.14'	Fair	355	313	670		11079		25	
12	57°	56°	.15'	Cloudy	80	93	173		11252		44	
13	57°	55°	.15'	Cloudy	338	367	710		11962		64	
14	55°	51°	.16'	Rain	487	527	1019		12981	2		
15	56°	52°	.18'	Rain	2164*	2858*	5032	8681	18013	3	1152	
16	55°	54°	.23'	Rain	1811*	2119*	3938		21951	1	530	
17	55°	54°	.27'	Cloudy	2861*	3214*	6087		28038	3	491	
18	55°	54°	.25'	Fair	282	248	530		28563		12	
19	55°	53°	.21'	Fair	1101	653	1768		30335	1	19	
20				Cloudy	361	438	803		31139		17	
21	57°	54°	.15'	Fair	1328	1560	2907	18190	34046		119	
22	58°	52°	.12'	Fair	986	1134	2157		36203		80	
23	56°	52°	.10'	Rain	862	971	1870		38073		42	
24	56°	51°	.09'	Fair	966	1180	2193		40266	3	52	
25	55°	52°	.07'	Fair	725	954	1699		41965		199	
26	54°	56°	.06'	Fair	1439	1374	2835		44800		219	
27	54°	53°	.06'	Fair	699	786	1509		46309	1	164	
28	54°	50°	.06'	Cloudy	584	520	1104		47453		426	
29	53°	50°	.05'	Fair	727	827	1571	12821	49024		229	3

TABLE 35.

Eshamy River Weir Count, 1950 - 1965

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	108,963	5,441	532	6	0
<b>TOTAL</b>	<b>515,618</b>	<b>44,955</b>	<b>9,500</b>	<b>1,056</b>	<b>2</b>
<b>AVERAGE</b>	<b>30,330</b>	<b>2,644</b>	<b>559</b>	<b>62</b>	<b>0</b>

TABLE 36. Eshamy River Red Salmon Weekly Cumulative Weir Counts, 1955-1965

Week Ending	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
6/30						52	2,183	1,096		8	0
7/7	0	--	61	109	48	1,308	3,421	1,441	116	28	0
7/14	0	782	479	245	371	3,220	4,317	1,768	168	1,948	885
7/21	482	7,207	510	1,123	502	4,633	5,381	1,877	195	3,379	1,553
7/28	505	8,802	690	1,588	852	6,214	6,209	2,024	211	5,336	5,110
8/4	1,412	12,631	842	2,183	1,450	7,316	7,438	2,132	222	6,706	8,271
8/11	4,198	21,720	922	2,909	3,960	8,252	21,412	3,704	546	8,657	11,252
8/18	8,243	37,018	4,064	4,030	5,858	10,509	31,580	5,538	716	17,604	28,568
8/25	11,914	41,467	27,625	4,796	6,908	12,209	38,474	7,450	2,063	45,994	41,965
9/2	12,936	44,977	45,170	5,198	--	13,217	45,072	8,720	2,588	65,672	51,150
9/9	13,036	46,750	50,658	5,224	--	--	46,400	9,297	3,064	67,730	53,053
9/16	--	46,863	51,308	--	--	--	47,275	9,390	3,092	--	90,438
9/23	--	--	--	--	--	--	--	--	--	--	108,934
<b>TOTAL</b>	<b>13,036</b>	<b>46,863</b>	<b>51,308</b>	<b>5,224</b>	<b>6,908</b>	<b>13,217</b>	<b>47,275</b>	<b>9,390</b>	<b>3,092</b>	<b>67,730</b>	<b>108,963</b>

TABLE 37. Eshamy District Salmon Case Pack, 1950-1965 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	634	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		S E A S O N C L O S E D		
1959		S E A S O N C L O S E D		
1960		S E A S O N C L O S E D		
1961	5,490	7,093	2,335	148
1962	2,183	3,164	3,726	318
1963		S E A S O N C L O S E D		
1964		S E A S O N C L O S E D		
1965	299	9	26	1
<b>TOTAL</b>	<b>35,418</b>	<b>23,128</b>	<b>13,655</b>	<b>1,169</b>
<b>AVERAGE <u>3/</u></b>	<b>3,512</b>	<b>2,312</b>	<b>1,363</b>	<b>117</b>

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.

TABLE 38. ESHAMY DISTRICT DRIFT AND SET GILLNET FISHERY STATISTICS, 1965 1/

Week	CATCH				CASE PACK 2/				Units of Gear
	Reds	Cohos	Pinks	Chums	Reds	Cohos	Pinks	Chums	
33	5,800	15	550	649	164	1	20	63	45
34	6,788	45			543	4			26
35	2,868	11			229	2			20
TOTAL	15,456	71	550	649	1,236	7	20	63	91

1/ Eshamy District was opened by Emergency Order.

2/ Estimated on basis of 12.5 red salmon, 10.31 coho, 27.38 pink salmon, and 10.23 chum salmon per case.

COGHILL DISTRICT  
PRINCE WILLIAM SOUND

The Coghill purse seine and drift gill net fishery opened June 21 as scheduled in the regulations and was closed to drift gill net fishing by field announcement on July 17. Weekly catch and case pack is summarized separately by gear in Table 39. Comparative catch data for drift gill nets is presented in Table 40 which shows a better than average catch for each species except pink salmon. However, large numbers of pink salmon were taken by purse seines which were apparently able to take the small sized pinks which otherwise were able to slip through the meshes of gill nets.

It was apparent during the early Coghill district fishery and later during the general purse seine season that the Coghill River pink salmon run contributed the majority of the pink catch from the Port Wells area. The Coghill River had a good to excellent spawning escapement of pinks in 1965, Table 30c. The spawning escapement of 62,000 compares with the parent escapement of 57,930.

A counting tower was used in Coghill River again in 1965 to obtain estimates of red salmon spawners to the upper river and Coghill Lake. A preliminary estimate of 40,000 red salmon is indicated from the counts at the tower. This compares to the aerial survey estimate of about 80 - 85,000 in the upper river and lake system. More data is needed to determine reasons for the large differences in the two methods.

TABLE 39. COGHILL AND UNAKWIK DISTRICT FISHERY STATISTICS,

PURSE SEINE AND DRIFT GILNET, 1965

PURSE SEINE

Week	CATCH				CASE PACK 1/				Units of Gear
	Reds	Cohos	Pinks	Chums	Reds	Cohos	Pinks	Chums	
26	775		11	132	70			13	5
27	564		60	120	51		3	12	5
28	35,974	18	35,207	13,184	3,270	1	1,384	1,289	53
29	2,541	121	60,435	15,681	231	12	2,377	1,533	38
30	3,324	186	50,917	13,397	302	18	2,002	1,310	35
31	38	74	47,557	1,621	3	7	1,870	158	13
Sub-Total	43,216	399	194,187	44,135	3,927	38	7,636	4,315	149

DRIFT GILNET

26	9,730	7	7	154	885			15	26
27	3,131	2	15	266	289		1	26	14
28	9,614	9	1,812	3,906	874	1	71	382	23
29	330	0	71	37	30		3	4	12
Sub-Total	22,855	18	1,905	4,363	2,078	1	75	427	75
TOTAL 2/	66,071	417	196,092	48,498	6,005	39	7,714	4,742	224

1/ Case pack determined using Prince William Sound fish per case average, except reds which were estimated at 11 fish per case.  
 2/ In addition, a total of 219 king salmon were caught.

TABLE 40. Coghill District Gill Net Comparative Effort and Catch, 1961 - 1965

Year	Reds	Pinks	Churns	Cohos	Average Units of Gear
1961	12,961	10,019	2,412	13	25
1962	13,846	2,241	4,817	15	41
1963	16,955	2,689	5,265	20	19
1964	28,864	5,790	4,494	2	44
1965 *	22,655	1,905	4,363	18	19
TOTAL	95,491	22,644	21,351	68	
AVERAGE	19,098	4,529	4,270	13	

\* In 1965 purse seines also fished the Coghill district.

## TROLL SALMON FISHERY

Troll salmon fishing in 1965 was of a very limited nature as shown in Table 41. A maximum of four boats operated obtaining a catch of 523 kings, 5,722 cohos, 347 pinks and 7 chums.

Troll catches are taken principally in the Middleton Island area and cape areas of Prince William Sound and delivered to Seward.

TABLE 11. TROLL SALMON FISHERY CATCH, 1965 1/

Week	King	Coho	Pink	Chum	No. of Boats	Number Landings
29		32			1	1
30	260	689	106	4	4	4
31	239	565	124	1	4	4
32	12	3,226	114	2	4	4
33	3	1,004	2		3	3
34	9	226	1		2	2
<b>TOTAL</b>	<b>523</b>	<b>5,722</b>	<b>347</b>	<b>7</b>	<b>18</b>	<b>18</b>

1/ Troll catch taken in area 227.

## SUBSISTENCE FISHERY

Each year a considerable number of salmon and other species 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 1965 fishery is summarized in Table 42 which shows that red salmon is the most important salmon in the fishery.

Each year since 1960 this information has been collected by voluntary returns in an attempt to determine the magnitude of the catch and its impact on the spawning populations. Several restrictions have been put into effect since 1959, when the State took control of the fisheries, to regulate the take and to require a systematic reporting to obtain information on the catch. Each subsistence fisherman is required to make out an application showing dates, location, type of gear and species to be taken. A numbered permit is issued with catch reporting forms and the permittee is required to submit a detailed report of the catch.

Table 42 shows 13,219 reds, 656 kings, 137 cohos, 179 pinks, 25 chums and 964 other fish were taken by subsistence fishing from reports received through January 26, 1966.

Comparable catch data, Table 43, shows the red salmon catch is slightly larger than 1964 and about average since 1960 where comparable data is available. The number of subsistence fishermen increased again in 1965.

TABLE 42. Subsistence Fishing, 1965 1/

Area	Number Permits Issued	Number Permits Returned	Type of Gear	Unsuccessful Fishermen	Unused Permits	Reds	Kings	Cohos	Pinks	Chums	Other <u>2/</u>
Upper Copper River	115	93	Fishwheel	2	9	5509	304				547
Upper Copper River	982	617	Dip Net	104	137	6899	316				332
Upper Copper River	28	19	Fishwheel & (or) Dip Net	1	5	352	24	52			85
Upper Copper River	2	0	Gill Net								
Copper River Delta	31	20	Gill Net	2	5	459	12	85			
Prince William Sound	19	14	Gill Net		5				50	25	
Prince William Sound	3	2	Snag Hook						129		
Eyak Lake	1	0	Gill Net *								
<b>TOTALS</b>	<b>1,181</b>	<b>765</b>		<b>109</b>	<b>161</b>	<b>13,219</b>	<b>656</b>	<b>137</b>	<b>179</b>	<b>25</b>	<b>964</b>

\* Permit issued for taking Dolly Varden.

1/ Compiled from reports received through January 26, 1966.

2/ Includes whitefish, grayling and lamprey.

TABLE 43. Subsistence Fishery, Upper Copper River, 1948 - 1965 1/ 6/

Year	Number Permits Issued	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 1/		1,767	329						2,096
1957 3/		7,241	282	108			123		7,753
1960	60	6,739	236	25	15	167	100		7,182
1961	194	15,472	388	550	188	88	639	87	17,412
1962	375	24,543	848	381	50	49	3	148	16,022
1963	295	14,055	464	550	52*	48*	23		15,200
1964	1,002	12,925	725	103			507		13,250
1965	2,127	22,760	644	52			964		14,420

1/ Data from years 1948, 1949, 1952, 1954, 1955, 1957, 1960 to 1965. 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.

## RAZOR CLAMS

The 1965 razor clam harvest of 86,477 pounds was again well below average and can be attributed to both biological and economical factors. The density of the clams on the beaches was below normal and there was a scarcity of commercial clam diggers.

The bulk of the clam harvest (88 per cent) was utilized as dungeness crab bait primarily by the Cordova fleet, although about 10 tons were shipped to the State of Washington. As bait the clams were worth 20 cents per pound delivered to the processor at Cordova.

TABLE 44. Razor Clam Statistics, 1931 - 1965 1/

PRINCE WILLIAM SOUND AND COPPER-BERING RIVER AREAS

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	389,202 7/				73 (Fresh Market)		89,275	
1965	80,621 9/	216 4/			5,856 9/		86,477	214
Total		36,798,000	931,821					

Average 1,051,371 26,623

- 1/ Case pack on basis of 48 - 1/2 pound cans 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.
- 9/ Includes 75,881 pounds used for crab bait and 2,085 used fresh.

**TABLE 45. Razor Clam Statistics, 1965  
(All Areas)**

Week	Total Beach Weight	Pounds Canned or Used Fresh	Pounds Crab Bait	Landings 1/
3	269	269		2
4	36	36		1
5	229	229		2
6	86	86		1
7	79	79		1
8	192	192		3
9	217	72	145	1
12	75	75		1
13	2,436	645	2,791	16
14	295	195	100	4
15	2,682	486	2,116	11
16	12,539	1,615	11,024	44
17	6,847	660	6,187	25
18	4,134		4,134	16
19	1,817	220	1,597	11
20	6,119	900	5,219	30
21	5,549	1,997	3,552	24
22	2,835		2,835	12
23	6,711	1,680	5,031	26
24	701		701	4
25	2,517		2,517	13
26	1,990		1,990	12
27	5,539	360	5,179	20
28	2,441		2,441	11
29	2,784		2,784	14
30	1,136		1,136	8
31	4,756		4,756	18
32	1,815		1,815	12
33	2,775	800	1,975	18
34	715		715	6
35	3,326		3,326	18
36	583		583	3
37	1,001		1,001	3
40	185		185	2
41	46		46	1
<b>TOTAL</b>	<b>86,477</b>	<b>10,596</b>	<b>75,881</b>	<b>449</b>

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

## DUNGENESS CRAB

The 1965 dungeness crab catch was below that of recent years. Effort, expressed as numbers of individual landings, remained about the same, but catch per unit of effort was below average.

Part of the lower catch per unit of effort for the fall "inside" season was due to a low daily boat limit of 1200 pounds per vessel plus 300 pounds for each crewman.

Because of the late molt this season, the northeastern part of Orca Inlet in the "inside" area was closed an extra month in the fall.

The "inside" area produced an average catch of about  $1\frac{1}{2}$  million pounds. The "outside" area catch was about 934 thousand pounds. The catch per unit of effort for both areas was below normal (see Table 47).

TABLE 16.  
Dungeness Crab Catch from Prince William Sound,  
Copper and Bering River Areas, 1951 - 1965 2/

Year	OUTSIDE		INSIDE <u>6/</u>		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	<u>3/</u>				509,288	1,018,576	86,578.96
1953	<u>3/</u>				627,942	1,255,884	106,750.14
1954	<u>3/</u>				752,855	1,505,710	120,456.80
1955	567,500	1,135,000	424,914	829,829	982,414	1,964,829	157,186.32
1956	<u>4/</u>		406,422	812,844	406,422	812,844	65,027.52
1957	<u>4/</u>		108,562	217,123	108,562	217,123	10,856.15
1958	<u>4/</u>		596,459	1,192,918	596,459	1,192,918	71,575.08
1959	670,394	1,340,788	576,749	1,153,499	1,247,243	2,494,287	199,542.96
1960	599,072	1,198,144	762,163	1,524,326	1,361,235	2,722,470	272,247.00
1961	882,976	1,765,952	495,121	990,242	1,378,097	2,756,194	275,619.40
1962	645,292	1,290,585	676,595	1,353,190	1,321,887	2,643,775	317,253.00
1963	896,683 <u>5/</u>	2,017,537	608,423	1,216,846	1,505,106	3,234,383	431,256.07
1964	902,250 <u>7/</u>	2,102,242	614,728 <u>8/</u>	1,290,929	1,516,978	3,393,171	453,339.00
1965	400,821 <u>7/</u>	933,915	620,250 <u>2/</u>	1,240,372	1,021,072	2,174,287	260,914.44
TOTALS	6,294,618	13,279,423	6,489,125	13,039,996	14,674,029	30,063,589	\$ 3,059,159.57
AVERAGE	699,402	1,475,391	540,760	1,086,666	978,269	2,004,239	\$ 203,943.97 <u>1/</u>

- 1/ Average value at 1965 prices would be \$240,508.68.
- 2/ Pounds reported in live weight. A two pound average weight was used to convert pounds to crab 1951 to 1962.
- 3/ Crabs sold by the pound since 1951.
- 4/ No "outsides" fishing these years.
- 5/ Pounds converted to crab on basis of 2.25 pounds per crab.
- 6/ The area designated as "insides" is located in the southeast corner of Prince William Sound and is described in the 1965 Commercial Fishing Regulations. The majority of the crab from the "insides" area are taken in Orca Inlet.
- 7/ Basis of 2.33 pounds per crab.
- 8/ Basis of 2.1 pounds per crab.

**TABLE 47. Dungeness Crab, Weekly Catch, 1965**

Week	Spring Lbs. (Inside)	Summer Lbs. (Outside)	Approx. No. of Crabs <u>1/</u>	No. of Landings	No. of Vessels	Icy Bay - Yakutat Area <u>2/</u>
10	4,358		2,179	6	6	
11	6,616		3,308	14	10	
12	15,776		7,888	30	10	
13	10,580		5,290	22	10	
14	13,175	1,492	7,228	20	11	
15	11,000	27,846	17,451	24	10	
16	8,674	65,936	32,637	28	12	
17	5,773	31,927	16,589	16	12	
18	10,681	61,232	31,621	21	12	
19	2,779	7,913	4,786	4	12	
20	24,532	29,481	24,919	28	12	
21	13,807	2,404	7,936	15	7	
22	4,885	6,765	5,346	13	6	33,130
23	789	5,383	2,705	6	5	39,958
24		3,013	1,293	4	6	90,131
25		4,973	2,134	5	5	
26		15,915	6,831	9	6	88,123
27		35,038	15,038	12	6	
28		69,862	29,985	15	10	82,863
29		94,763	40,672	24	11	36,742
30		113,244	48,604	27	12	52,991
31		101,922	43,745	25	15	
32		70,440	30,233	24	15	
33		69,805	29,960	23	15	
34		49,329	21,172	22	15	
35		47,600	20,430	31	15	

continued next page

TABLE 47, cont. Dungeness Crab, Weekly Catch, 1965

Week	Spring Lbs. (Inside)	Summer Lbs. (Outside)	Fall Lbs. (Inside)	Approx. No. of Crabs <u>1/</u>	No. of Landings	No. of Vessels	Icy Bay <u>2/</u> Yakutat Area
36		7,441	74,310	40,349	43	17	
37		4,383	89,075	46,419	66	14	
38			100,761	50,380	79	14	
39			98,275	49,138	75	16	
40			134,377	67,188	95	19	
41			134,107	67,053	97	20	
42			105,430	52,765	78	20	
43			92,533	46,266	70	20	
44			83,973	41,987	72	18	
45		3,003	72,680	37,629	61	18	
46		1,542	42,219	21,772	42	17	
47			45,541	22,770	48	16	
48		1,263	20,319	10,702	31	15	
49			13,347	6,674	20	10	
<b>TOTAL</b>	<b>133,425</b>	<b>933,915</b>	<b>1,106,947</b>	<b>1,021,072</b>	<b>1,345</b>		<b>423,938</b>

1/ Average weight per crab: Inside crab, 2.0 pounds, Outside crab, 2.33 pounds.

2/ Landed in Cordova by Cordova fishermen. These figures are not included in any other columns.

TABLE 1/8. Comparative Dungeness Crab Catch, 1960 - 1965  
Prince William Sound, Copper-Bering River and Yakutat Areas

		1960	1961	1962	1963	1964	1965	Average For Years With Data
<u>Inside: Spring</u>								
No. Pounds				101,962	162,519	205,681	133,425	150,904
No. Landings				236	267	367	188	264
Ave. Lbs./Landing				432	609	560	710	572
No. Vessels				18	18	27	15	20
Value 1/				\$ 12,235.44	\$ 22,756.86	\$ 28,795.34	\$ 16,011.00	
<u>Inside: Fall</u>								
No. Pounds		1,524,326	990,242	1,251,228	1,053,097	1,085,248	1,106,947	1,124,130
No. Landings				807	578	559	866	702
Ave. Lbs./Landing				1,550	1,822	1,941	1,278	1,601
No. Vessels					26	21	21	23
Value 1/				\$150,147.36	\$126,371.64	\$130,229.76	\$132,833.44	
<u>Outside</u>								
No. Pounds		1,198,144	1,765,952	1,290,585	2,017,547	2,102,242	933,915	1,551,398
No. Landings				263	385	558	291	374
Ave. Lbs./Landing				4,907	5,240	3,767	3,209	4,148
No. Vessels			35		17	19	16	22
Value 1/				\$154,870.20	\$232,456.58	\$294,313.88	\$112,069.80	
Value per Pound		\$ .10	\$ .10	\$ .12	\$ .14	\$ .12*	\$ .11	\$ .12
<u>Ave. Wt./Crab</u>								
Inside						2.1		2.0
Outside					2.25	2.33		2.33
<u>TOTAL NO. POUNDS</u>		2,722,470	2,756,194	2,643,775	3,233,193	3,392,171	2,174,287	2,820,398
<u>TOTAL NO. LANDINGS</u>				1,306	1,230	1,484	1,345	1,341
<u>TOTAL AVE. LBS./LANDING</u>				2,024	2,629	2,286	1,617	2,103
<u>TOTAL NO. VESSELS</u>		19	63	60*	29	32	28	44
<u>TOTAL VALUE 1/</u>		\$272,247.00	\$275,619.40	\$317,253.00	\$431,535.08	\$456,338.98	\$260,911.44	\$335,659.65
<u>Yakutat Area</u>								
No. Pounds				465,036	330,662	103,395	423,938	
No. Landings				22	11	9	18	
No. Vessels				2	2	2	2	
Value 1/				\$55,804.32	\$46,292.68	\$14,475.30	\$50,872.56	

1/ Value as paid to the fishermen. \* Inside: Fall value per pound.

## MISCELLANEOUS SHELLFISH

The king crab fishery was mainly conducted as a secondary fishery with a few king crab pots being fished in conjunction with the main occupation of dungeness crab fishing. One hand pack operator fished a few crab which were canned.

The beam trawl fishery for shrimp was experimental and did not prove to be a success because of the difficulty of catching the large sized shrimp.

TABLE 19. Miscellaneous Shellfish Catch, 1965

Week	KING CRAB				SHRIMP			
	Number Crab	Number Pounds	Landings	Area 1/	Pounds	Landings	Area 1/	
5	15	120	2	214-20	719	4	229-10	
6	28	252	2	214-20				
				229-10				
7	15	120	1	214-20	185	1	229-10	
9	27	216	1	214-20	425	6	229-10	
10	9	72	1	214-20	337	2	229-10	
11	16	128	1	214-20				
12	12	100	1	214-20	250	2	229-10	
14					170	2	229-10	
21	23	209	1	229-10				
32	31	310	1	229-10				
35	27	270	1	229-10				
36	97	960	2	229-10				
39	43	430	1	229-10				
40	27	270	1	229-10				
42	113	1,130	2	229-10				
47	54	486	1	229-10				
50	30	270	1	229-10				
51	32	288	1	229-10	92	2	229-10	
TOTALS	599	5,631	21		2,178	19		

1/ Area designation for shellfish only.

## COMMERCIAL FISHING LICENSE SALES

License receipts for 1965 commercial fishing were below the past several years which, in part, is probably due to the prediction of a moderate to poor run of pink salmon in Prince William Sound. The total receipts, \$47,697.50, TABLE 49, compares with \$50,965 in 1964, \$55,568 in 1963, and \$63,835 in 1962. Comparisons of the number of each type of license by residency is presented in TABLE 50 for each year since 1960. In 1965, non-residents comprised 34.8 per cent of the commercial fishermen, 29.5 per cent of the vessels, 30.7 per cent of the drift gill nets, 12.5 per cent of set gill nets, 20.3 per cent of purse seines, 17.2 per cent of the shellfish pots, and 10.8 per cent of the razor clam diggers. The 1965 season showed an increase over 1964 in commercial fishing licenses and drift and set gill nets. Decreases are shown for vessels, troll gear, set or long line, purse seines, shellfish pots, and clam gear.

The 1965 commercial fishing license sales and receipts are summarized in TABLE 49. Licenses were sold in Cordova at the Department's office and by a local vendor. A vendor in Valdez also sold all types of licenses.

**TABLE 50. Summary of Commercial Fishing Licenses and Receipts, 1965.**

**LICENSES SOLD IN CORDOVA**

COMMERCIAL FISHING LICENSES		GEAR LICENSES									
Resident	Nonresident	Fishermen 1/ Vessels 2/	Drift	Purse	Set	Clam	Crab	Beam	Trawl	Troll	Long
			Gillnet	Seine	Gillnet	Shovels	Pots	Trawl	Troll	Line	
534	310	448	297	154	35	91	23	3	3	3	10
		192	132	40	5	11	5	0	0	0	3
		844	429	194	40	102	28	3	3	3	13
LICENSES FORWARDED TO CORDOVA BY OTHER OFFICES											
48	1	10	1	3	0	0	1	0	0	0	7
		0	0	0	0	0	0	0	0	0	0
49		10	1	3	0	0	1	0	0	0	7
TOTAL LICENSES FOR CORDOVA AREA											
582	311	458	298	157	35	91	24	3	3	3	17
		192	132	40	5	11	5	0	0	0	3
		893	430	197	40	102	29	3	3	3	20
RECEIPTS FOR LICENSES SOLD 3/											
Resident	\$ 5820.00	\$ 4580.00	\$ 4470.	\$ 7850.	\$525.	\$455.	\$360.	\$112.50	\$45.	\$125.	
Nonresident	4665.00	5760.00	5940.	6000.	150.	165.	225.	0.00	0.	150.	
	\$10485.00	\$10340.00	\$10410.	\$13850.	\$675.	\$620.	\$585.	\$112.50	\$45.	\$575.	

1/ Includes captain and crew of tenders. 2/ Includes tenders.  
 3/ Total receipts, \$47,697.50. Receipts include corrected totals for transfers of licenses to non-residents.

TABLE 51. Comparative Commercial Fishing License Statistics  
Cordova Area, 1960 - 1965

TOTAL COMMERCIAL FISHING LICENSES	1960	1961	1962	1963	1964	1965
<b>FISHERMEN</b>						
Resident	601	497	621	728	541	582
Nonresident	<u>566</u>	<u>247</u>	<u>470</u>	<u>574</u>	<u>304</u>	<u>311</u>
	1,167	744	1,091	1,302	845	893
<b>VESSEL LICENSES</b>						
Resident	493	452	525	590	477	458
Nonresident	<u>312</u>	<u>196</u>	<u>281</u>	<u>327</u>	<u>214</u>	<u>192</u>
	805	648	806	917	691	650
<b>GEAR LICENSES</b>						
Resident Troll Line	15	9	6	9	9	3
Nonresident Troll Line	<u>1</u>	<u>0</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>0</u>	<u>3</u>	<u>5</u>	<u>2</u>	<u>3</u>
	8	7	14	18	17	13
Resident Drift Gill Net	263	293	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	35
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	40
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	0	0	2	0	0	0
Resident Beam Trawl	0	0	0	1	2	3

TABLE 52. Time Open to Salmon Fishing by Month, Day, Gear and Regulatory Area, 1965 1/

		DISTRICTS									
		Copper-Bering River	Copper-Bering River	Coghill Unakwik	Copper-Bering River	Coghill Unakwik	P.W.S. General Purse Seine	Copper-Bering River	P.W.S. General Purse Seine	Copper-Bering River	
MONTH	DAY	MAY	JUNE			JULY			AUGUST		SEPTEMBER
1			24		6	24					
2			6		24	24		18	18		
3			6		6	6		24	18		
4			24					6			
5			6		18	18	18	6			
6					24	24	24	24		18*	
7			18		6	24	24	6		24*	
8			24		6	24	24			24*	
9			6		24	24	24	18		24*	
10			6		6	6	6	24		24*	
11			24					24		6*	
12			6		18	18	18	24			
13					24	24	24	24		18	
14			18		6	24	24	6		24	
15			24		6	24	24			24	
16			6		24	24	24	18		24	
17	6		6		6	6	6	24		24	
18	24		24					24		6	
19	6		6		18		18	24			
20	6				24	24	24	24			
21	24		18	18	6	6	24	6			
22	6		24	24	6	6	24				
23			6	24	24	24	24	18			
24	18		6	24	6	6	6	24			
25	24		24	24				24			
26	6		6	6	18		18	24			
27	6				24	24	24	24			
28	24		18	18	6	6	24	6			
29	6		24	24	6	6	24				
30			6	24	24	24	24				
31	18				6	6	6				
Total Open Hrs. by Mo. & Gear		MAY	JUNE			JULY			AUGUST		SEPTEMBER
Drift Gillnet		274	385	186	372	294		444		240	
Purse Seine				186**		294**	480		36		

1/ Time open to fishing expressed in hours per day. Blanks denote days closed to fishing.

\* Bering River only.

\*\* Coghill only.

TABLE 53. Calendar Weeks, 1965 <sup>1/</sup>

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

<sup>1/</sup> The numbered calendar weeks were used in coding fish tickets, 1965 landings.

## WHOLESALE VALUE OF FISHERY PRODUCTS

The wholesale value of all fishery products from the Cordova area in 1965 was \$7,568,602.57, Table 61. The 1965 wholesale value was slightly below 1964.

According to the data submitted by fishery operators, red salmon was the most valuable fishery in 1965 and represented 43.03 percent of the value of all fishery products from the Cordova area. Pink salmon was second in value and made up 33.56 percent. Dungeness crab, Table 59, was next and represented 8.82 percent; chum salmon 6.01 percent; coho salmon 4.36 percent and king salmon 2.85 percent. Salmon represented 89.81 percent of the wholesale value of all fishery products harvested, Tables 54 to 58.

Miscellaneous fisheries, Table 60, including razor clams, shrimp, smelt and salmon eggs contributed 1.37 percent of the total wholesale value.

In addition, several operators did not submit an annual operator's report. These operations are summarized as follows:

Name of Company	Product	Pounds	Wholesale Value
"Irene C", Freezer Ship	King salmon, whole, frozen	7,321	\$ 3,660.50 *
" " "	Red salmon, whole, frozen	40,559	20,279.50 *
Joe Clark	Shrimp, fresh	1,811	2,264.00 *
" "	King crab, fresh	1,800 *	180.00 *
Engstrom Brothers	Coho salmon, whole, frozen	6,221	3,110.50 *
R. A. Sherman	Razor clams, fresh	2,337 *	584.25 *
Harry Shipman	King crab, fresh	1,080 *	108.00 *
Bruno Zimbicki	Whitefish, fresh	900	360.00
<b>TOTAL</b>		<b>62,029</b>	<b>\$30,546.75</b>

\* Estimated.

With the addition of these operations the total wholesale value of all fishery products is increased to \$7,599,149.32 for the Cordova area.

TABLE 51. Wholesale Value of King Salmon from the Cordova Area, by Company, 1965 1/

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish	Cases $\frac{48}{1\#}$ $\frac{48}{1\#}$	Wholesale Value	
Channel Packing Company	Family	Canned	12	300 $\frac{2}{1}$	5	\$ 100.00	
Glacier Packing Company	Family	Canned	72 $\frac{2}{1}$	1,800 $\frac{2}{1}$	30	750.00	
Honkio Fisheries	2	Hard Salt	45	900 $\frac{1}{1}$		630.00	
New England Fish Company	191	Canned	4,462	115,521	2,852	74,152.00	
Ocean Harvest Packing Co.	2 Families	Canned					
Parks Canning Company	113	Smoked Canned	70 $\frac{2}{1}$	1,750 $\frac{2}{1}$	20 $\frac{3}{1}$	720.00	
Point Chevalis Packers, Inc.	72	Canned	8,835 $\frac{2}{1}$	228,732 $\frac{2}{1}$	5,635	118,335.00	
		Frozen	62 $\frac{2}{1}$	1,550	20 $\frac{1}{2}$	635.50*	
			2,174 $\frac{2}{1}$	40,754 $\frac{5}{1}$		20,377.00*	
<b>TOTAL</b>			<b>15,732</b>	<b>391,307</b>	<b>20 <math>\frac{1}{2}</math></b>	<b>8,542</b>	<b>\$215,699.50</b>

1/ Data from annual reports of operators (Form FG - 122).  
2/ Estimated on basis of 25 pounds per fish.  
3/ 48 - 6  $\frac{1}{2}$  ounce cans.  
4/ Net weight finished product.  
5/ Heads off, eviscerated.  
 \* Estimated.

TABLE 55. Wholesale Value of Red Salmon from the Cordova Area, by Company, 1965 1/

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish	Cases				Wholesale Value
					48/1#	48/2#	24/1#	24/2#	
Channel Packing Company	Family	Canned	1,740	10,440 <u>2/</u>					\$ 6,946.00
Copper River Co-op Co., Inc.	72	Canned	17,897 <u>2/</u>	107,384					58,880.00
Glacier Packing Company	Family	Canned	1,348 <u>2/</u>	8,088 <u>2/</u>					5,382.00
Nor England Fish Company	191	Canned	251,033	1,473,336					933,208.95
Point Chelalis Packers, Inc.	72	Canned	63,174 *	379,044 *	204				178,993.00 *
Point Tanning Company	113	Canned	556,026 <u>2/</u>	3,336,156 <u>2/</u>	5,264 <u>2/</u>				2,073,659.00
<b>TOTAL</b>			<b>828,044</b>	<b>4,935,404</b>	<b>7,439 <u>1/2</u></b>	<b>125,845</b>	<b>611</b>	<b>8,432</b>	<b>\$3,257,068.95</b>

1/ Data from annual reports of operators (Form PG - 122).  
2/ Estimated on basis of 6 pounds per fish.  
 \* Estimated.

TABLE 56. Wholesale Value of Pink Salmon from the Cordova Area, by Company, 1965 <sup>1/</sup>

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish	Cases			Wholesale Value
					48/1#	43/2#	24/1#	
Copper River Co-op Co., Inc.	72	Canned	228,144 <sup>2/</sup>	759,720	9,740			\$ 233,760.00
New England Fish Company	191	Canned	1,083,010	3,606,022	32,328	9,852	13,599	1,176,986.85
Parks Canning Company	113	Canned	977,940 <sup>2/</sup>	3,256,540 <sup>2/</sup>	31,937	15,697		1,129,148.00
<b>TOTAL</b>	<b>376</b>		<b>2,309,094</b>	<b>7,622,282</b>	<b>74,005</b>	<b>25,549</b>	<b>13,599</b>	<b>\$2,539,894.85</b>

<sup>1/</sup> Data from annual reports of operators (Form FG - 122).

<sup>2/</sup> Estimated on the basis of 3.33 pounds per fish.

TABLE 57. Wholesale Value of Chum Salmon from the Cordova Area, by Company, 1965 1/

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish	Cases			Wholesale Value
					LB/#	LB/ $\frac{1}{2}$ #	24/1#	
Copper River Co-op Co., Inc.	72	Canned	9,851	79,994	1,081			\$ 22,701.00
New England Fish Company	191	Canned	100,536	816,633	4,713	20	10,598	227,124.70
Parks Canning Company	113	Canned	86,187 <u>2/</u>	699,838 <u>2/</u>	7,651	1,884		205,175.00
<b>TOTAL</b>	376		196,574	1,596,465	13,445	1,904	10,598	\$155,000.70

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

2/ Estimated on basis of 8.12 pounds per fish.

TABLE 58. Wholesale Value of Coho Salmon from the Cordova Area, by Company, 1965 1/

Name of Company	Peak Number of Employees	Type of Product	Number of Fish	Pounds of Fish	Cases		Wholesale Value
					48/1#	48/2#	
Bering Sea Fisheries, Inc.	20	Canned	4,336	40,100	457		\$ 11,516.40
Copper River Go-op Co., Inc.	72	Canned	1,076	8,316	132		3,432.00
New England Fish Company	191	Canned	4,500	34,701	219	540	15,797.25
Parks Canning Company	113	Canned	75,394 2/	582,795 2/	79	16,232	274,177.00
Point Chehalis Packers, Inc.	72	Canned Frozen 3/	6,115 2/ 2,753 *	47,269 2/ 16,020	657 1/2		17,095.00 * 8,010.00 *
TOTAL	468		94,104	729,282	1,514 1/2	16,772	\$330,027.65

1/ Data from annual reports of operators (Form PG - 122).

2/ Estimated on the basis of 7.73 pounds per fish.

3/ Heads off, eviscerated.

\* Estimated.

TABLE 59. Wholesale Value of Dungeness Crab from the Cordova Area, by Company, 1965 1/

Name of Company	Peak Number of Employees	Type of Product	Net Weight of Finished Product	Cases	Wholesale Value
Point Chehalis Packers, Inc.	72	Canned		32,033	\$180,495.00
"	"	Frozen Whole Cooks	420,108		111,790.74
"	"	Frozen Sections	290,479		73,520.23
"	"	Frozen Cooked Meat	2,105		2,077.85
<b>TOTAL</b>	<b>72</b>		<b>712,692</b>	<b>32,033</b>	<b>\$667,883.82</b>

1/ Data from monthly reports of operator.  
Wholesale value estimated.

**TABLE 60. Wholesale Value of Miscellaneous Fish Products from the Cordova Area, by Company, 1965 1/2**

Name of Company	Peak Number of Employees	Type of Product	Net Weight		Gases	Wholesale Value
			Finished Product	24/19 oz.		
Channel Packing Company	Family	Razor Clams, Canned	770	27	22 1/2	\$ 1,071.00
Glacier Packing Company	Family	Razor Clams, Canned	1,632		68	1,020.00
New England Fish Company	191	Salted Red Salmon Eggs	537			478.80
New England Fish Company	191	Salted Green Salmon Eggs	25,095			31,925.12
New England Fish Company	191	Salted Pink Salmon Eggs	37,821			28,394.10
Carl Oisen	1	Razor Clams, Fresh, Cleaned	450			900.00
Carl Oisen	1	Razor Clams, Fresh	540			174.00
Carl Oisen	1	Smelt, Fresh	296			389.00
Partis Canning Company	113	Salted King Salmon Eggs	3,000			900.00
Partis Canning Company	113	Salted Red Salmon Eggs	17,425			5,227.50
Partis Canning Company	113	Salted Ocho Salmon Eggs	18,475			5,542.50
Partis Canning Company	113	Salted Pink Salmon Eggs	46,275			13,862.50
Partis Canning Company	113	Salted Green Salmon Eggs	25,225			7,527.50
Garth Phillips	2	Shrimp, Fresh	137 1/2			172.88
Point Chehalis Packers, Inc.	6	Razor Clams, Canned	1,944 *	81		1,295.00 *
Point Chehalis Packers, Inc.	6	Razor Clams, Salt	75,881			18,970.25 *
Point Chehalis Packers, Inc.	6	Razor Clams, Fresh	110			55.00 *
Bruno Zimblett	1	Whitefish	900			359.50
<b>SUB-TOTAL</b>						
		Razor Clams	80,877	27	90 1/2	\$ 23,486.25
		Salmon Eggs	172,883			93,918.02
		Shrimp	137 1/2			171.88
		Smelt	296			389.00
		Whitefish	900			359.50
<b>GRAND TOTAL</b>						
						\$118,324.65

1/ Data from annual reports of operators (Form FG - 122).  
 \* Estimated.

TABLE 61. Wholesale Value of All Fishery Products from the Cordova Area, 1965

Species	Type of Product	Number of Salmon	Number of Pounds	Cases						Wholesale Value	
				1/8/1#	1/8/2#	2 1/4/1#	2 1/4/2#	2 1/4/3#	2 1/4/4#		
King Salmon	Canned	13,443	347,903	20 1/2	8,522						\$ 193,972.50
King Salmon	Canned, Smoked	70	1,750		20						720.00
King Salmon	Hard Salt	45	900 *								630.00
King Salmon	Frozen	2,174	40,754 *								20,377.00
Red Salmon	Canned	828,044	4,935,404	7,439 1/2	125,845						3,257,068.95
Plink Salmon	Canned	2,309,094	7,622,282	74,005	25,549	13,599					2,539,894.85
Chum Salmon	Canned	196,574	1,596,465	13,445	1,904	10,593					455,000.70
Coho Salmon	Canned	91,421	713,262	1,544 1/2	16,772						322,017.65
Coho Salmon	Frozen	2,763	16,020 *								8,010.00
Dungeness Crab	Canned										32,033
Dungeness Crab	Frozen, Cooked		712,692 *								180,495.00
Razor Clams	Canned		4,346		70 1/2						187,388.82
Razor Clams	Fresh, Balt., etc.		76,981								3,387.00
Salmon Eggs	Salted		172,883								20,099.25
Shrimp	Fresh		137 1/2								93,918.02
Smelt	Fresh		296								177.88
Whitefish	Fresh		900								389.00
TOTAL		3,443,628	16,251,075 1/2	96,454 1/2	178,682 1/2	24,808	8,432	32,114	27		\$7,583,827.82

\* Estimated.

PERSONNEL

The Commercial Fisheries Division employed four permanent and fourteen seasonal employees in the Cordova management area in 1965. A reorganization within the Department became effective July 1, 1965 which added one permanent employee from the former Biological Research Division. Following is a list of personnel, general duty assignments and dates of employment.

PERMANENT EMPLOYEES - 1965

Ralph B. Pirtle	Area Management Biologist
Rae Baxter	Assistant Area Management Biologist
Robert Roys	Research Biologist
Jeannette Bailey	Clerk - Stenographer

SEASONAL EMPLOYEES - 1965

<u>Name</u>	<u>Assignment</u>	<u>Dates of Employment</u>
Frank I. Aloysius	Clam Survey and Test Fishing	4/21 - 5/19 8/22 - 9/30
Pancratius Alexie	Clam Survey	4/21 - 5/19
Robert Q. Barone	Project Leader, Copper River Surveys, Tagging & Test Fishing	5/10 - 8/15
William J. Casey	Copper River Surveys, Tagging & Test Fishing	6/11 - 9/4
William B. Dorsey	Copper River Surveys, Tagging & Test Fishing	4/1 - 9/30
Eleanor L. Glasen	Statistics	5/12 - 9/24
Daniel A. Hinz	Copper River Tag Recovery & Spawning Surveys	6/5 - 8/31
James E. King	Laborer	4/1 - 4/28
Richard C. Nelson	Copper River Surveys, Tagging & Test Fishing	6/9 - 8/31

SEASONAL EMPLOYEES - 1965, cont.

<u>Name</u>	<u>Assignment</u>	<u>Dates of Employment</u>
David A. Pepi	Copper River Tag Recovery & Spawning Surveys	6/2 - 8/31
William H. Ragle	Prince William Sound Studies	6/7 - 8/15
Arnold R. Shaul	Copper River Surveys, Tagging	6/16 - 8/31
John David Solf	Eshamy River Fish Weir	5/18 - 10/15
Irving M. Warner	Fish Scale Sampling, Misc.	5/6 - 9/15