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AN ECONOMIC SURVEY OF THE COOK INLET

SALMON FISHERY

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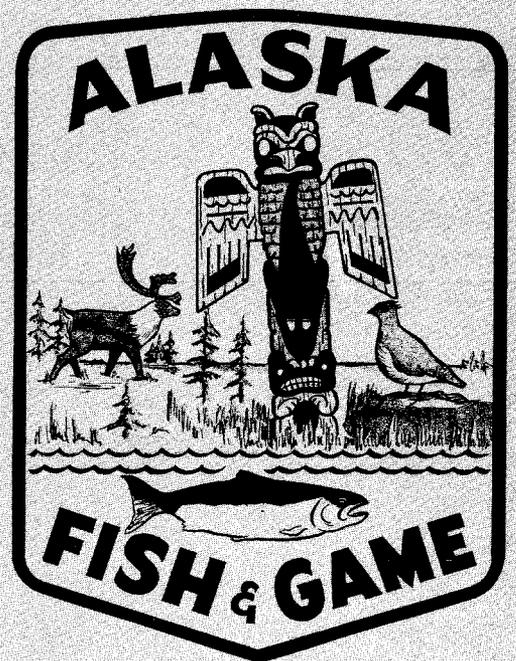


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AN ECONOMIC SURVEY OF THE COOK INLET SALMON FISHERY

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INTRODUCTION

This publication presents information on the economic value of the commercial salmon fishery of Cook Inlet. The report is divided into two parts. Information presented in Part I was obtained from survey forms filled out by a sample of Cook Inlet salmon gear license holders. Also presented in Part I are the results from a survey of Cook Inlet salmon canneries. Part II deals with economic information derived from the statistical reports of the Alaska Department of Fish and Game and the annual reports from fish processors.

Most of the information relates to the 1968 salmon season, however, some of the information reported reflects values which are fairly constant from year to year. Examples of this include such information as value of vessels, value of set net sites, and investment in fishing gear.

THE COOK INLET MANAGEMENT AREA

The Cook Inlet-Resurrection Bay Management Area includes all waters of Cook Inlet and Resurrection Bay north of Cape Douglas and west of Cape Fairfield, including the Barren Islands (Figure 1). The area embraces approximately 50,000 square miles, a region about the same size as the State of New York.

The management area is divided into seven fishing districts:

The Northern District includes that area north of Boulder Point, excluding Turnagain and Knik Arms. In the Northern District only set nets are allowed and in 1968 approximately 150 set netters fished this district. This district is the only one of seven in the Cook Inlet Management Area which has no mobile gear.

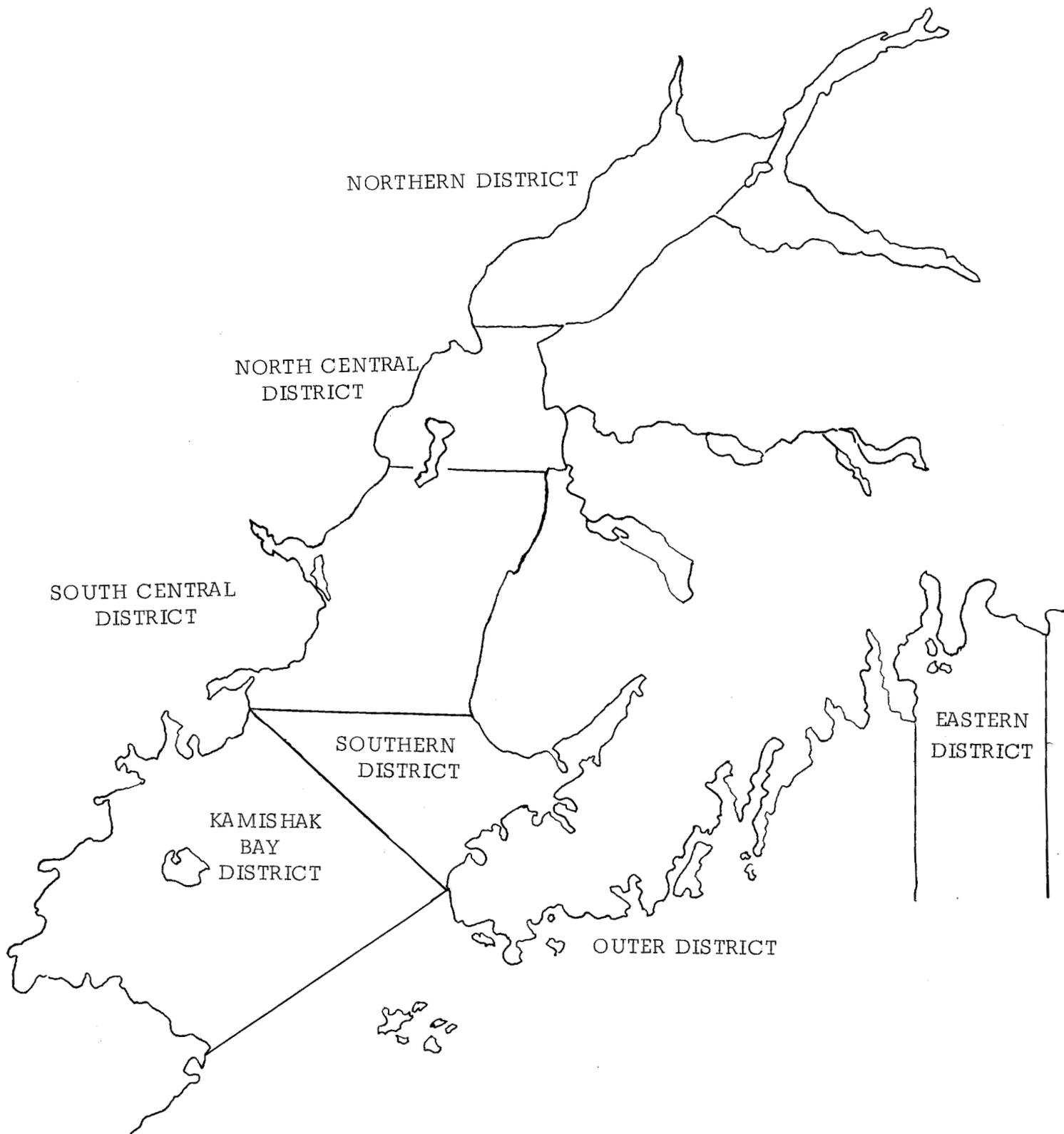


Figure 1. Cook Inlet - Resurrection Bay Management Area.

The North Central District includes the area between the latitude of Boulder Point and the latitude of the marker at the south limit of the closed area at the Kasilof River, including the waters adjacent to Kalgin Island.

The South Central District includes that area between the latitude of the marker at the south limit of the closed area at the Kasilof River and the latitude of Anchor Point, excluding the waters adjacent to Kalgin Island. Salmon harvested in the North Central and South Central districts are of the stocks and the fishing gear allowed in both districts includes both set nets and drift nets. There were approximately 350 set net sites fished in the Central Districts and virtually all drifters (612) fished the Central Districts in 1968.

The Southern District consists of waters south of a line extending due west of Anchor Point and northeast of a line extending from Point Adam to Mount Chinitna, including all of Kachemak Bay. Hand purse seines and set nets are used in the Southern District and in 1968 approximately 80 seiners and 12 set netters fished in this district.

The Kamishak Bay District includes all waters north of a line from Cape Douglas to Point Adam and extending to the Southern District boundary line. Seines only are used in the Kamishak District and in 1968 approximately 10 seine boats fished this district.

The Outer District includes that stretch of coastline from Point Adam, at the southwest tip of the Kenai Peninsula, to the latitude of Bear Glacier, which is adjacent to Resurrection Bay. Seines are the single type of salmon gear allowed, and most of the seine fishermen who license in Cook Inlet fish part of each season in the Outer District.

The Eastern District extends from the latitude of Bear Glacier (where it adjoins the Outer District), including all of Resurrection Bay and Day Harbor, and ends at the latitude of Cape Fairfield, which is the easternmost boundary of the management area. Both seines and drift nets fish the Eastern District and in 1968 approximately 10 seiners and 20 drift fishermen fished this district.

PART I. PROCEDURE AND RESULTS

In September 1968 survey forms were sent to 1,395 Cook Inlet salmon gear license holders. A total of 390 (28.0 percent) forms were returned by the end of the year and all information presented in the first part of this report is based on these returned forms. A copy of the survey form appears in Appendix B. A better response was obtained from non-resident fishermen than from resident

fishermen. Non-resident set net fishermen returned 17 of 43 forms (39.5 percent) and non-resident drift fishermen returned 69 of 205 forms (33.6 percent). Resident drift fishermen returned 128 of 407 forms (31.4 percent) while resident set netters returned 156 of 638 forms (24.4 percent). Resident seiners returned 19 of 85 forms (22.3 percent). Information on the size of the samples by various gear categories and the number of fishermen that actually fished during 1968 is presented in Appendix Table A-1. Due to the 1968 gear limitation regulation some fishermen registered to fish 1968 with no intention of fishing -- they believed they were protecting their right to fish in future years. This is reflected in Appendix Table A-1, which shows that only 357 of 390 (91.5 percent) of the fishermen sampled fished during 1968. When this sample is expanded to the total number of licenses issued, the results show that an estimated 1,285 licenses out of 1,395 were actually used during 1968.

More fishing effort was expended in the two central districts in 1968 than all the other districts combined. From the 390 forms returned, a total of 249 fishermen reported fishing in the North Central and South Central Districts, followed by the Northern District with 27, Southern District with 16, Outer District with 13, Eastern District with 6, and Kamishak District with 4 (Appendix Table A-2). The Central Districts also accounted for the bulk of the 1968 catch with 71.2 percent of the fish caught in the Cook Inlet-Resurrection Bay Area. The other catches by district were as follows: Northern (15.5 percent), Kamishak (4.3 percent), Outer (3.7 percent), Southern (3.2 percent), and the Eastern (2.1 percent) (Appendix Table A-3). Also presented in Appendix Table A-3 is the catch by gear. Drift fishermen accounted for 46.9 percent of the total 1968 catch, set netters 41.3 percent, and seiners 11.8 percent.

Seine fishermen reported a higher average catch in numbers of fish than drifters or set netters. A sample of 17 seiners reported an average catch of 18,066 fish and an average gross of \$8,360. Non-resident drift fishermen reported an average catch of 7,490 fish and an average gross of \$6,112. Non-resident set net fishermen reported an average catch of 7,329 fish and an average gross of \$6,848. Resident set netters averaged 5,907 fish and had an average gross of \$4,605. Resident drift fishermen reported an average catch of 5,779 fish and an average gross of \$4,706. All of these data are presented in Appendix Table A-4 along with average expenses, average net income, percent of total income from salmon fishing, and average time fished.

Appendix Table A-5 shows the number of commercial fishermen assistants employed in 1968 and the share paid to assistants by different gear categories. Assistants employed by seine fishermen were the highest paid, and received an average share of \$3,029.

Value of Vessels and Set Net Sites

A total of 196 drift fishermen reported an average value of \$11,604 for drift boats, while 19 seiners reported an average value of \$7,868 for seine boats.

The average Cook Inlet drift boat is 32.6 feet long with 156 horsepower and has an average speed of 11.5 knots. The average seine boat used in the Inlet is 28.7 feet with 112 horsepower and has an average speed of 9.0 knots. Information on Cook Inlet vessels is presented in Appendix Table A-6.

Appendix Table A-7 shows the average value of set net sites by district and the average number of fish caught per site. The average value per site for the entire Cook Inlet Area was \$15,998. These figures representing the total value of set net sites, include all gear associated with the sites such as cabins, boats, motors, beach vehicles, nets, etc. The total number of set net sites operating in Cook Inlet changes from year to year and is very difficult to enumerate. Also a "site" is hard to define as some sites may fish a single limit of three nets while others are family type operations with as many as five licensed fishermen fishing perhaps 15 nets. Thus we are unable to estimate the total number of set net "sites" as such and cannot place a total value on these sites.

Appendix Table A-8 shows the number and percent of fishermen sampled who fished salmon during the past three years in Cook Inlet. This table shows the general increase in fishing pressure during the past three years.

Canneries Surveyed

A survey form was also mailed out to all Cook Inlet canneries and a sample of this form appears in Appendix C. Eighteen out of 42 canneries (42.8 percent) returned the forms. Of the 18 forms returned, the major canneries of the Inlet were well represented with six out of nine responding to the questionnaire. The average total capital investment of the canneries sampled was \$262,372 and the average gross receipts for 1968 were \$65,653. This information and other information obtained from the canneries appears in Appendix Table A-9.

Expanded Samples

An attempt was made to expand the average figures from the sample to obtain total values. As an example, a sample of 128 resident drift fishermen reported their average gross receipts at \$4,706. This figure was multiplied by

the total number of resident drift fishermen who actually fished (352) resulting in a total estimate of 1.6 million dollars for the gross receipts of resident drift fishermen.

Using this same method of expansion, non-resident drifters grossed 1.1 million, resident set netters 2.8 million, non-resident set netters \$225,984, and resident seine fishermen \$710,600. This information is presented in Appendix Table A-10 along with expanded operating expenses and net income.

The expanded values for drift boats, seine boats, and fishing gear is presented in Appendix Table A-11. The total value of the Cook Inlet drift fleet was estimated at 7.1 million dollars, while the total value of seine fleet was \$668,780. The total value of fishing gear owned by drifters was \$943,567, and the total value for seiners was \$161,500.

PART II. ECONOMIC DATA FROM FISH AND GAME RECORDS

The information presented in this part of the report is taken from the statistical reports prepared by the Department of Fish and Game and from the annual reports of the fish processors. This part is not connected with the economic survey report in Part I, but is presented as complimentary information to the data obtained by the survey.

Parts of the data that follow do not agree entirely with the data extracted from the survey forms as reported in Part I. As an example, the average gross receipts reported by fishermen using the survey forms was higher than that obtained by using the Department of Fish and Game catch records in conjunction with average prices paid by canneries.

This can be explained partly by the fact that at the time fishermen answered the survey forms many of them had not received final settlements from the canneries and thus made estimates as to their actual gross receipts. Also, many fishermen do not keep catch records and thus in some instances the number of fish they reported was taken from memory.

1968 Total Catch and Value

The 1968 salmon catch for Cook Inlet totaled 5.7 million fish. The first wholesale value of this catch (based upon annual reports by fish processors) was 12.1 million dollars. All species but kings contributed in strength to the pack, which totaled 356,163 cases of canned salmon and 2.28 million pounds of frozen salmon.

The total number of fish caught by district and by gear is presented in Appendix Table A-3, Part I. The canned case pack and the frozen pack is presented in Appendix Table A-12.

The value of the 1968 catch to the fishermen is estimated at 4.87 million dollars. This figure is computed from the prices paid fishermen as reported by the canneries, and the total catch of fish from the statistical run. The value to the fisherman, by gear category, is presented in Appendix Table A-13.

The average gross income of Cook Inlet fishermen from 1959 to 1968 is presented in Appendix Table A-14. The ten year average income for seine fishermen was highest of the three gear categories with \$4,030.27 as compared to \$3,319.84 for drift fishermen and \$2,476.86 for set net fishermen. The average income for 1968 was higher than the ten year average for all three types of gear. These data were computed in the same manner as Appendix Table A-13.

In Appendix Table A-15 prices paid and fish per case is presented as reported by the nine major canneries operating in Cook Inlet. In 1968, the average price paid for salmon was as follows: kings .24 per lb., reds \$1.59 per fish, cohos \$1.10 per fish, pinks .53 per fish, and chums .75 per fish.

Appendix Table A-16 shows the total wholesale value of canned and frozen salmon products by species and the distribution by canneries. The total wholesale value of salmon eggs packed by Cook Inlet canneries exceeded a half million dollars in 1968. The total net weight of eggs and wholesale value is shown in Appendix Table A-17.

Revenue to the state from 1968 license sales relating to the Cook Inlet salmon fishery amounted to \$84,185. The bulk of this comes from the sale of commercial fishing licenses, salmon gear licenses, and vessel licenses.

SUMMARY

1. Twenty-eight percent of Cook Inlet salmon gear license holders cooperated in an economic survey to assess the value of the salmon fishery.
2. The central districts of Cook Inlet are by far the most important and in 1968 accounted for 71.2 percent of the salmon catch.
3. Drift fishermen took 46.9 percent of the total 1968 catch, set netters 41.3 percent, and seiners 11.8 percent.

4. The average gross receipts for Cook Inlet salmon fishermen (as reported by the fishermen) ranged from \$4,605 for resident set netters to \$8,360 for resident seiners.
5. The average Cook Inlet drift boat is 32.6 feet long with 156 horsepower, has an average top speed of 11.5 knots and has an average value of \$11,604.
6. The average Cook Inlet seine boat is 28.7 feet long with 112 horsepower, has an average speed of 9.0 knots and has an average value of \$7,868.
7. The average value of Cook Inlet set net sites ranged from \$9,060 for sites in the Northern District to \$19,969 for sites in the Central districts.
8. The average capital investment of 18 Cook Inlet canneries surveyed was reported at \$262,372. The average gross receipts for these canneries in 1968 was \$65,653.
9. The total value of salmon vessels in Cook Inlet was estimated at \$7,775,874 and the value of salmon gear at \$1,105,067.
10. The 1968 catch for Cook Inlet totaled 5,737,965 fish which made up a canned pack of 355,890 cases and a frozen pack of 2,032,925 pounds.
11. The total value of the 1968 Cook Inlet salmon catch to the fishermen (computed using Department of Fish and Game catch records and average prices paid by canneries) was 4.8 million dollars. Red salmon was first in value to fishermen with 1.9 million dollars.
12. The wholesale value of canned salmon products in Cook Inlet for 1968 was 10.8 million dollars while the wholesale value of frozen products was 1.3 million for a total wholesale value of 12.1 million.
13. Revenue to the state from 1968 license sales relating to the Cook Inlet commercial salmon fishery was \$84,185.

LITERATURE CITED

Rearden, Jim. 1965. Status of the Cook Inlet-Resurrection Bay commercial salmon fishery, 1965. Alaska Department of Fish and Game, Informational Leaflet No. 69. 39 pp.

APPENDIX A

Appendix Table A-1. Composition of samples taken and number of fishermen, 1968.

Gear Category	No. licenses issued 1968	Number sampled	Percent sampled	Number that fished 1968	Percent of sample that fished 1968	Estimated total number that fished 1968 (sample expanded)
Resident Drift	407	128	31.4	110	86.6	352
Non-resident Drift	205	69	33.6	63	91.3	187
Resident Set	638	156	24.4	151	96.8	618
Non-resident Set	43	17	39.5	13	76.5	33
Resident Seine	85	19	22.3	19	100.0	85
Non-resident Seine	6	0	-	-	-	-
Resident Troll	10	1	10.0	1	100.0	10
Non-resident Troll	1	0	-	-	-	-
Totals	1,395	390	28.0%	357	91.5	1,285

Appendix Table A-2. Cook Inlet areas fished during 1968.

Gear Category	Number sampled	District Fished					
		Northern	Central	Kamishak	Outer	Eastern	Southern
Resident drift	127		110			2	
Non-resident drift	68		63				
Resident set	103	25	69				6
Non-resident set	13	2	7				3
Resident Seine	17			4	13	4	7
	328	27	249	4	13	6	16

Appendix Table A-3.
Cook Inlet 1968 salmon catch by type of gear and by district.

Gear	Kings	% catch	Reds	% catch	Cohos	% catch	Pinks	% catch	Chums	% catch	Total	% catch
Seine	31	.7	13,759	1.1	5,138	1.1	574,026	20.0	85,045	7.1	677,999	11.8
Drift	185	4.0	632,700	52.7	167,613	35.3	881,799	30.8	1,008,140	84.4	2,690,437	46.9
Set	4,384	95.3	553,687	46.1	302,582	63.6	1,407,813	49.2	101,063	8.5	2,369,529	41.3
Totals	4,600	.1	1,200,146	20.9	475,333	8.3	2,863,638	49.9	1,194,248	20.8	5,737,965	100.0

Cook Inlet 1968 salmon catch by district.

District	Kings	% catch	Reds	% catch	Cohos	% catch	Pinks	% catch	Chums	% catch	Total	% catch
Northern	471	10.2	140,575	11.7	156,648	32.9	534,839	18.7	58,454	4.9	890,987	15.5
N & S Central	4,065	88.3	964,329	80.4	313,802	66.0	1,743,358	60.9	1,060,660	88.8	4,086,214	71.2
Southern	61	1.3	18,716	1.6	4,671	1.0	154,033	5.4	4,518	.4	181,999	3.2
Outer	1	.1	1,550	.1	106	.1	191,691	6.7	20,283	1.7	213,631	3.7
Kamishak	0		492		101	.1	198,253	6.9	49,461	4.1	248,307	4.3
Eastern	2	.1	74,848	6.2	5		41,464	1.4	872	.1	116,825	2.1
Totals	4,600		1,200,146		475,333		2,863,638		1,194,248		5,737,963	100.0

Appendix Table A-4.
Average time fished, total fish caught, income, and expenses, 1968.

Gear Category	No. sampled that fished 1968	Av. time fished in weeks 1968	Av. total number fish caught 1968	Av. salmon gross receipts 1968	Average expenses 1968	Av. net income salmon fishing 1968	Percent total income from salmon fishing average for 1968
Resident Drift	110	5.99	5,779	\$4,706	\$1,785	\$2,921	51.7
Non-resident Drift	63	4.63	7,490	\$6,112	\$2,463	\$3,649	66.6
Resident Set	151	9.02	5,907	\$4,605	\$1,981	\$2,624	62.6
Non-resident Set	13	9.57	7,329	\$6,848	\$3,402	\$3,446	48.9
Resident Seine	19	7.87	18,066	\$8,360	\$4,786	\$3,574	49.9

Appendix Table A-5.
 Number of assistants and shares paid during 1968 Cook Inlet
 commercial salmon season.

Gear Category	Number Sampled	Number of Assistants Employed	Average Share to Assistants	Average Percent (Net) Share to Assistants
Resident Drift	127	96	\$ 610	21.3
Non-resident Drift	68	46	\$ 1,419	23.8
Resident Set	103	137	\$ 1,236	29.7
Non-resident Set	13	17	\$ 1,166	33.8
Resident Seine	17	41	\$ 3,029	44.0

Appendix Table A-6.
Information on Cook Inlet drift and seine vessels.

Gear Category	No. Sampled	Vessels Used in 1968		Average length vessels	Average Horse-power	Average Speed (Knots)	Vessel Equipped with Radio		Average Value Vessels	Ave. Value of Salmon Gear
		Fisherman Owned	Cannery Owned				Yes	No		
Resident Drift	127	87	22	32.7'	151.7	11.5	107	8	\$11,087	\$1,451
Non-resident Drift	69	24	39	32.4'	164.6	11.5	63	2	\$12,657	\$1,722
Totals - Drift	196	111	61	32.6'	156.1	11.5	170	10	\$11,604	\$1,549
Resident Seine	17	14	3	28.7'	112.0	9.0	15	2	\$ 7,868	\$1,900

Appendix Table A-7.
 Value of Cook Inlet set net sites and average number of fish caught per site.

Category	Number Sampled	Set Net Site Used in 1968		Average Value Set Net Sites	Number of Gear Cards Fishing Site	Average Number of Fish Caught Per Site 1968
		Owned	Leased			
Central Districts	72	44	11	\$ 19,969	117	10,155
Northern District	28	16	4	\$ 9,060	32	12,371
Southern District	6	6	-	\$ 7,717	7	4,053
Non-resident (All Districts)	13	10	0	\$ 13,700	17	9,038
Totals	119	76	15	\$ 15,998	173	9,398

Appendix Table A-8.
 Number and percent of fishermen sampled, during 1966, 1967,
 and 1968.

Gear Category	Number Fishermen Sampled	No. That Fished 1968	Percent	No. That Fished 1967	Percent	No. That Fished 1966	Percent
Resident Drift	127	110	86.6	89	70.1	85	66.9
Non-resident Drift	68	63	92.6	58	85.3	53	77.9
Resident Set	103	99	96.1	91	88.3	83	80.6
Non-resident Set	13	9	69.2	10	76.9	11	84.6
Resident Seine	17	17	100.0	10	58.8	13	76.5
	328	298	90.8	258	78.6	245	74.7

Appendix Table A-9.
Economic data from 18 Cook Inlet canneries.

Average number of years operated in Cook Inlet	11
Number of salmon purchased in 1968	3,434,474
Average number of salmon purchased per cannery	381,608
Average price paid for fish in 1968:	
Kings	\$.25/lb.
Reds	1.58/ea.
Cohos	1.24/ea.
Pinks	.49/ea.
Chums	.79/ea.
Number of people employed at peak of operation	635
Average number of people employed per cannery	35
Number of tenders operated in 1968	21
Number of fishing boats owned	102
Total value of fishing boats	\$922,000
Average value per boat	\$ 9,039
Average capital investment per cannery	\$262,372
Average operating expense per cannery	\$ 45,209
Average gross receipts per cannery	\$ 65,653
Percent of total receipts from sale of salmon products	97

Appendix Table A-10.
Expanded samples - gross receipts, expenses, net income.

Gear	Est. No. of Fishermen That Fished 1968	Ave. Salmon Gross Receipts	Total Gross Receipts	Average Operating Expenses	Total Expenses	Ave. Net Income	Total Net Income
Resident Drift	352	\$ 4,706	\$1,656,512	\$1,785	\$ 628,320	\$ 2,921	\$1,028,192
Non-resident Drift	187	6,112	1,142,944	2,463	460,581	3,649	682,363
Resident Set Net	618	4,605	2,845,589	1,981	1,224,258	2,624	1,621,632
Non-resident Set	33	6,848	225,984	3,402	112,266	3,446	113,718
Resident Seine	85	8,360	<u>710,600</u>	4,786	<u>406,810</u>	3,574	<u>303,790</u>
			\$6,581,629		\$2,832,235		\$3,749,695

Appendix Table A-11. Expanded samples - value of boats and gear.

Gear	Ave. Value Vessels	Est. Total No. of Vessels	Total Value Vessels	Average Value Salmon Gear	Total Value Salmon Gear
Resident Drift	\$ 11,087	407	\$4,512,409	\$ 1,451	\$ 590,557
Non-resident Drift	12,657	205	2,594,685	1,722	353,010
Seine	7,868	85	<u>668,780</u>	1,900	<u>161,500</u>
			\$7,775,874		\$1,105,067

Appendix Table A-12.
Cook Inlet 1968 canned and frozen salmon packs.

Cannery	Number of 48 - 1 pound cases					Total
	Kings	Reds	Cohos	Pinks	Chums	
1	0	6,092	1,377	14,193	7,922	29,584
2	47	14,145	5,387	22,222	22,071	63,872
3	329	28,008	9,008	27,693	38,588	103,626
4	0	1,301	280	3,066	387	5,034
5	1	23	8	1	4	37
6	57	8,368	4,326	7,012	23,257	43,020
7	0	269	325	177	74	845
8	30	1,611	664	3,608	2,853	8,766
9	83	13,575	12,071	23,774	20,539	70,042
10	0	2,955	1,291	16,004	10,814	31,064
Totals	547	76,347	34,737	117,750	126,509	355,890

Cannery	Freezer Fish (pounds)					Total
	Kings	Reds	Cohos	Pinks	Chums	
1	0	43,838	371,337	100,816	252,971	768,962
2	28,020	161,863	29,513	1,445	38	220,879
3	6,500	0	67,882	0	158,060	232,442
4	4,684	35,483	29,044	20,564	59	89,834
5	11,442	70,884	85,635	132,926	49,492	350,379
6	0	99,278	39,981	0	158,751	289,010
7	0	0	0	0	25,769	25,769
8	0	0	0	46,650	0	46,650
Totals	50,646	411,346	623,392	302,401	645,150	2,032,925

Appendix Table A-13.
Total number of fish caught by gear, 1968.

	Kings	Reds	Cohos	Pinks	Chums	Totals
Seiners	31	13,759	5,138	574,026	85,045	667,999
Drifters	185	632,700	167,613	881,799	1,008,140	2,690,437
Set Net	4,384	553,687	302,582	1,407,813	101,063	2,369,529
	4,600	1,200,146	475,333	2,863,638	1,194,248	5,737,965

Average price paid by Cook Inlet canneries, 1968

Kings	Reds	Cohos	Pinks	Chums
.24/lb.	1.59 ea.	1.10 ea.	.53 ea.	.75 ea.

Dollar value to fishermen by species and by gear

	Kings	Reds	Cohos	Pinks	Chums	Totals
Seiners	\$ 192	\$ 21,877	\$ 5,652	\$ 304,234	\$ 63,784	\$ 395,739
Drifters	8,880	1,005,993	184,374	467,353	756,105	2,422,705
Set Net	21,043	880,362	332,840	746,141	75,797	2,055,983
	\$30,115	\$1,908,232	\$522,866	\$1,517,728	\$895,686	\$4,874,627

Total dollar value to fisherman

No. Gear Licenses	Category	Dollars Received	Percent	Ave. Income
91	Seiners	\$ 395,739	8.1	\$4,348.78
612	Drifters	2,422,705	49.7	3,958.67
681	Set Net	2,055,983	42.2	3,019.06
		\$4,874,627		

Appendix Table A-14.

Average gross income of individual Cook Inlet fisherman, by gear
(based on prices paid for raw fish as reported by canneries).

1959

69 Seine	\$1,407.41
370 Drift	995.50
534 Set Net	1,768.71

1960

95 Seine	3,496.40
288 Drift	3,129.08
540 Set Net	3,586.22

1961

89 Seine	2,178.39	
372 Drift	3,364.81	
586 Set Net	1,523.24	Ten year average, 1959-1968

1962

		Seine	\$4,030.27
91 Seine	12,286.40	Drift	3,319.84
372 Drift	4,142.05	Set Net	2,476.86
617 Set Net	4,042.39		

1963

112 Seine	1,782.77
472 Drift	2,158.79
655 Set Net	1,377.28

1964

108 Seine	5,537.01
468 Drift	3,529.74
631 Set Net	3,328.86

1965

71 Seine	987.86
447 Drift	4,283.60
589 Set Net	1,045.06

1966

77 Seine	3,428.34
504 Drift	4,537.94
628 Set Net	3,326.97

Appendix Table A-14.
Average gross income of individual Cook Inlet fisherman, by gear
(based on prices paid for raw fish as reported by canneries) - cont.

1967

58 Seine	3,849.32
534 Drift	3,098.27
605 Set Net	1,750.84

1968

91 Seine	4,348.78
612 Drift	3,958.67
681 Set Net	3,019.06

Appendix Table A-15.
 Prices paid and fish per case* - Cook Inlet - By cannery - 1968.

Company	KINGS		REDS		COHOS		PINKS		CHUMS	
	Fish/case	Price	Fish/case	Price	Fish/case	Price	Fish/case	Price	Fish/case	Price
1		.25/lb	13.00	1.63 ea.	11.00	1.20 ea.	21.00	.53 ea.	11.00	.77 ea.
2	4.13	.23/lb	13.69	1.54 ea.	10.87	1.00 ea.	22.64	.52 ea.	8.89	.72 ea.
3		.25/lb	12.70	.27/lb	10.60	.18/lb	22.70	.12/lb	11.50	.10/lb
4	4.00	.25/lb	12.00	.25/lb	11.00	.16/lb	32.00	.13/lb	10.20	.09/lb
5	3.70	.23/lb	11.91	1.63 ea.	10.98	1.10 ea.	23.25	.55 ea.	9.67	.75 ea.
6	6.40		13.12		13.18		24.99		10.11	
7			11.48		11.79		25.33		9.25	
8	4.00	.25/lb	10.00	1.57 ea.	14.00	1.10 ea.	20.00	.53 ea.	9.00	.75 ea.
9	10.60		16.95		11.64		23.38		7.35	
TOTALS	5.47	.24/lb	12.44	1.59 ea.	11.67	1.10 ea.	23.92	.53 ea.	9.66	.75 ea.

*One case equivalent to 48 - 1# cans

* Corrected estimates

** Value by species not given

Appendix Table A-16.
Cook Inlet - 1968 -- Wholesale value of canned salmon products.

Cannery	Kings	Reds	Cohos	Pinks	Chums	Total
1	\$ 2,872.63	\$ 556,403.14	\$ 423,338.26	\$ 723,017.02	\$ 577,205.18	\$ 2,282,836.23
2		119,813.77	44,785.41	495,503.47	300,877.50	960,980.15
3	12,397.17	1,061,739.25	290,230.93	749,455.42	956,853.45	3,070,676.22
4	1,653.01	566,629.41	182,711.13	640,586.28	575,906.86	1,967,486.69
5		49,549.50	8,070.00	87,067.50	10,140.00	154,827.00
6	520.00	14,209.44	19,406.12	8,345.40	1,911.00	44,391.96
7		243,680.00	44,064.00	397,404.00	205,972.00	891,120.00
8	759.05	34,898.40	15,197.15	85,907.60	70,694.40	207,456.60
9	20.00	700.00	1,505.60	75.00	96.00	2,396.60
10	189.00	958.50	1,000.00	744.00	2,904.00	5,795.50
11	528.00	78.00	2,524.00			3,130.00
12*	1,998.00	319,526.00	138,432.00	189,324.00	581,425.00	1,230,705.00*
13		800.00				800.00
14					320.00	320.00
	\$ 20,936.86	\$ 2,968,985.41	\$ 1,171,264.60	\$ 3,377,429.69	\$ 3,284,305.39	\$ 10,822,921.95
<u>Wholesale value of frozen salmon products</u>						
1	\$ 3,779.47	\$ 25,863.20	\$ 23,432.00	\$ 27,910.25	\$ 10,403.36	\$ 91,388.28
2	4,157.00		47,914.89		53,821.00	105,892.89
3		30,790.75	12,384.09	108.25	31,185.24	74,468.33
4	1,282.80	3,947.00	5,413.14	1,238.08		11,881.02
5**						7,619.00
6	320,691.00	20,751.91	197,841.15	24,195.84	95,523.40	659,003.30
7	60,167.40	82,966.65	36,662.56	2,215.78	5,305.81	187,318.20
8	4,644.00	16,381.56	11,612.88	5,727.15	191.62	38,557.21
9	19,698.70	56,626.50	14,288.50	358.25	9.50	90,981.45
10			3,834.25	1,064.00		4,898.25
11			5,351.19			5,351.19
12	2,915.50	1,025.92	33,446.40		931.56	38,319.38
13	2,789.40	12,084.28	18,693.00	4,163.40		37,730.08
14		218.60	214.38			432.98
15		466.68	15.00		18.00	499.68
16	940.00					940.00
17**						8,961.00
	\$ 421,068.77	\$ 251,123.05	\$ 411,103.43	\$ 66,981.00	\$ 197,389.49	\$ 1,364,242.24
Total (Canned & Frozen)	\$ 422,005.63	\$ 3,220,108.56	\$ 1,582,368.03	\$ 3,444,410.69	\$ 3,481,694.88	\$ 12,187,164.19

Appendix Table A-17.
Cook Inlet -- 1968 -- Wholesale value of salmon eggs.

Cannery	Total Net Weight	Total Wholesale Value
1	70,160	\$ 94,232.00
2	24,376	15,844.40
3	19,433	20,904.30
4	3,048	1,371.60
5	1,949	779.60
6	2,103	1,051.50
7	20	9.00
8	2,400	1,200.00
9	86,239	122,653.00
10	1,140	570.00
11*	130,975	153,000.00
12*	<u>88,962</u>	<u>92,500.00</u>
	430,805	\$504,155.00

* Conservative estimates based on pounds of eggs reported.

Appendix Table A-18. Cook Inlet -- License sales - 1968.

Commercial, Resident	1,675 @ 10.	\$16,750.
Commercial, Non-resident	615 @ 30.	18,450.
Troll, Resident	10 @ 15.	150.
Troll, Non-resident	1 @ 45.	45.
Hand Purse Seine, Resident	85 @ 50.	4,250.
Hand Purse Seine, Non-resident	6 @ 150.	900.
Beach Seine, Resident	4 @ 10.	40.
Drift Gill Net, Resident	407 @ 15.	6,105.
Drift Gill Net, Non-resident	204 @ 45.	9,180.
Set Gill Net, Resident	638 @ 15.	9,570.
Set Gill Net, Non-resident	43 @ 45.	1,935.
Vessel, Resident	461 @ 10.	4,610.
Vessel, Non-resident	208 @ 30.	6,240.
Tender, Resident	16 @ 10.	160.
Tender, Non-resident	7 @ 30.	210.
Dory, Resident	493 @ 10.	4,930.
Dory, Non-resident	22 @ 30.	<u>660.</u>
		\$84,185

Appendix B. Survey Form Sent to Cook Inlet Commercial Salmon Fishermen.

Check _____
if you want a copy
of completed report.

1. Name _____ 2. Address _____.
3. Did you fish salmon in 1968 _____ 1967 _____ 1966 _____ (please check)
4. What type gear license did you hold in 1968? Drift _____ Set Net _____ Seine _____ Troll _____
5. Approximately how long did you fish in 1968? _____
6. Which of the following Cook Inlet Districts did you fish in 1968? Northern _____
North Central _____ South Central _____ Kamishak _____ Outer _____ Eastern _____
7. How many fish did you catch in 1968?
Kings _____ Reds _____ Cohos _____ Pinks _____ Chums _____ Total _____
8. What were your gross receipts from salmon fishing in 1968? _____
9. For the years 1966-1968 approximately what proportion of your total income was from salmon fishing? 1966 _____ 1967 _____ 1968 _____
10. Number of assistants employed by you in 1968. _____ Share paid to assistants _____
11. Total expenses incurred in your fishing operation during 1968? _____

TO BE COMPLETED BY DRIFT, SEINE OR TROLL FISHERMAN:

1. Did you use your own or a cannery owned boat in 1968? Own _____ Cannery _____
2. Vessel information: Length _____ Horsepower _____ Top Speed, empty _____
3. Is the vessel that you use equipped with a two-way radio? Yes _____ No _____
4. Estimated total value of your boat with engine and all equipment? _____
5. Estimated total value of all other salmon gear? _____

TO BE COMPLETED BY SET NET FISHERMAN ONLY:

1. Do you own or lease your set net site? Own _____ Lease _____
2. If you own a site, what is the estimated total value of your site with all associated gear (cabins, boats, motors, beach vehicles, nets, etc.)? _____
3. If you do not own a set net site, what is the value of gear, if any, owned by you? _____

4. What is the location of your set net site? _____

Appendix C. Survey Form Sent to Cook Inlet Salmon Processors.

Name of Company _____ Location _____

1. How long has your company been operating in Cook Inlet? _____
2. How many salmon did you purchase in 1968? Kings _____ Reds _____
Cohos _____ Pinks _____ Chums _____ Total _____
3. What was the average price you paid per fish or per pound in 1968?
Kings _____ Reds _____ Cohos _____ Pinks _____ Chums _____
4. How many people did your company employ at the peak of operation in 1968? _____
5. How many salmon fishermen in Cook Inlet sell the bulk of their fish to you? _____
6. How many tenders did you operate in 1968? _____ Are these tenders owned or leased
by your company? _____ If leased, what is the expense to you? _____
7. How many fishing boats do you own? _____ What is their approximate total
value? _____
8. What is the total capital investment of your company? (Include everything--land value,
buildings, docks, tenders, boats, machinery, trucks, etc.) _____
- *9. What were the total operating expenses incurred by your company in 1968, not including
wages paid? _____
- *10. What were the total wages paid to your employees in 1968? _____
- *11. What were your gross receipts for 1968? _____ What percent of these
receipts were from the sale of salmon products? _____

* If these figures are not available at this time, please leave blank and return form incomplete.

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