ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF COMMERCIAL FISHERIES

PRINCE WILLIAM SOUND AREA

Annual Management Report

1972 - 1973

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PREFACE

This report combines the thirteenth and fourteenth annual management reports since the State assumed control of the fisheries in 1960. The data is preliminary and will be finalized and corrected in subsequent reports. Data presented here supercedes information presented in previous management reports.

Persons desiring additional information should direct a specific request to the area office in Cordova.

INTRODUCTION

This is a combined thirteen and fourteenth annual commercial fisheries management report since the State assumed control of the fisheries in 1960.

The report gives a brief description of the 1972 and 1973 fishery and summarizes historical catch, escapement and related data on each species harvested by the commercial fishery. The report is compiled primarily for use as a reference source for management purposes.

The Prince William Sound area comprises all of the drainages entering the Gulf of Alaska between Cape Suckling and Cape Fairfield. The area includes Controller Bay (Bering River, Prince William Sound, Copper River and several smaller rivers entering the Copper River delta and the Gulf of Alaska (FIGURE 1).

The economy of the Prince William Sound communities depends almost entirely on the commercial fishery and related activities. The base of the major fishery activity is Cordova and, to a lesser extent, Valdez.

Fisheries of the area harvest five species of salmon, three species of crab, herring, herring spawn on kelp, halibut and razor clams. Salmon is the most important fishery resource harvested with pinks the most important followed by reds, chums, cohos and kings. The average annual wholesale value of all fishery products from the Prince William Sound Area is approximately $10,000,000. The value to fishermen of fish and shellfish landed in 1972 was about $4,568,980, and in 1973 about $12,000,000.

Three types of salmon net gear and troll gear are used to harvest salmon from the area. Drift gill nets are the most numerous and are used in the Bering River, Copper River, Eshamy, Coghill and Unakwik districts. Purse seines are second in abundance and are fished in all districts of Prince William Sound except Eshamy. A small number of set gill nets are fished in the Eshamy District.

In 1972 and 1973 three major canneries and four smaller operations processed salmon in the area. One of these custom canned salmon for two other major processors. Two major operations processed king, tanner and Dungeness crab in 1972 and 1973. TABLE 1 lists fishery operators for the Cordova area.

A staff of five biologists, one technician and approximately 25 seasonal aides conduct the research and management programs of the Prince William Sound fishery.

TABLE .. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of Cans Lines of Machinery	Type of Product
Active Fisheries, Inc. D. M. Hamilton, Supt. P. O. Box 13 Ketchikan, AK 99901 Location: Ellamar area	X		Salted	Herring eggs on kelp
Alaska Marine Resources M. Noonan, Supt. P. O. Box 666 Cordova, AK 99574 Location: Cordova		X	Salted	Herring roe.
Alaska Packers Association 1/ M. Wickett, Supt. P. O. Box 380 Cordova, AK 99574 Location: Cordova	X	X		Salmon, salmon eggs
B & B Fisheries 2/ Kodiak, AK 99615 Location: Kodiak	X		Salted	Herring roe.
B & B Fisheries 2/ J. Nebel, Supt. Valdez, AK 99686 Location: Valdez		X	Frozen	Tanner crab.
Bayside Cold Storage F. Pettingill, Supt. P. O. Box 636 Cordova, AK 99574 Location: Cordova		X	Frozen	Herring (bait).

TABLE 1, cont. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of Cans Lines of Machinery	Type of Product
Blake's Canning M. Blake, Supt. P. O. Box 94 Cordova, AK 99574 Location: Cordova	X	X	1/2 #, hand packed	Salmon
Harold Butler P. O. Box 24 Cordova, AK 99574 Location: Cordova	X	X	Fresh market	Shrimp
Channel Packing Company L. Buchanan, Supt. Cordova, AK 99574 Location: Big Point	X	X	7 1/2 oz., 19 oz., hand packed	Razor clams
Glacier Packing Company P. Conrad, Supt. P. O. Box 176 Cordova, AK 99574 Location: Big Point		X	6 1/2 oz., 7 1/2 oz., 16 1/2 oz.	Salmon Razor clams
Fairmount Island Sea Foods W. C. Baker, Supt. Fairmount Island via Cordova Location: Fairmount Island	X		Fresh market	King crab
Leroy Harris P. O. Box 116 Cordova, AK 99574 Location: Cordova	X		Fresh market	Razor clams

TABLE 1, cont. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of Cans Lines of Machinery	Type of Product
Tracy Jones, Jr. P. O. Box 16 Clam Gulch, AK 99568 Location: Clam Gulch	X	X	Salted	Herring roe Herring eggs on kelp
Kenneth Kirkman P. O. Box 962 Cordova, AK 99574 Location: Ellamar area		X	Salted	Herring eggs on kelp
Tom Lawrence P. O. Box 872 Cordova, AK 99574 Location: Cordova	X		Fresh market	Bottom fish
MNW Company M. Noonan, Supt. P. O. Box 666 Cordova, AK 99574	X		Salted	Herring eggs on kelp
MSP Company C. R. Mullins, Supt. P. O. Box 436 Cordova, AK 99574 Location: Ellamar area	X	X	Salted	Herring eggs on kelp
Buyer for Kenner Packing, Kenai	X			Salmon
M/V Eris Y E. McLeod, Supt P. O. Box 251 Valdez, AK 99686 Location: Valdez	X		Fresh market	Shrimp
Marine Ventures W. W. Wyatt, Supt. P. O. Box 568 Valdez, AK 99686 Location: Valdez	X	X	Canned for sport fishermen	Salmon

TABLE 1, cont. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of Cans Lines of Machenery	Type of Product
Morpac Incorporated 1/ R. Morgan, Supt. Cordova, AK 99574 Location: Cordova	X	X	Frozen Salted Frozen	Salmon Salmon eggs Dungeness, king crab, tanner crab, shrimp, razor clams, halibut, herring (bait)
New England Fish Company J. Forsell, Supt. P. O. Box 120 Cordova, AK 99574 Location: Orca	X	X	1/2 #, 2 lines 1 #, 2 lines Salted	Salmon Salmon eggs Herring sac roe
NEFCO - Smokwa 2/ M. Lee, Supt. P. O. Box 120 Cordova, AK 99574 Location: Orca		X	Frozen	Dungeness crab, king crab, tanner crab, bottom fish (bait)
North Coast Seafoods T. Jones, Jr., Supt. P. O. Box 645 Homer, AK 99603		X	Salted	Herring roe
North Pacific Processors K. Roemhildt, Supt. P. O. Box 1040 Cordova, AK 99574 Location: Cordova	X	X	1/2 #, 1 line 1 #, 1 line 4 #, hand pack 6 1/2 oz. Salted Frozen	Salmon Tanner crab Salmon eggs Salmon, Dungeness crab, king crab, tanner crab, razor clams, halibut, herring, bottom fish

TABLE 1, cont. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of cans, Lines of Machinery	Type of Product
Carl Olsen P. O. Box 782 Cordova, AK 99574 Location: Cordova	X	X	Fresh market	Razor clams
Ocean Harvest Packing Co. I. deVille, Supt. P. O. Box 178 Cordova, AK 99574 Location: Cordova	X	X	1/2 #, hand pack	Salmon (smoked)
Odiak Smokeries J. Dettinger, Supt. P. O. Box 153 Cordova, AK 99574 Location: Cordova	X		1/2 #, hand pack	Smoked salmon
P & R Fisheries G. Raymond, Supt. P. O. Box 598 Cordova, AK 99574 Location: Ellamar area	X	X	Salted	Herrings eggs on kelp
St. Elias Ocean Products J. Poor, Supt. P. O. Box 548 Cordova, AK 99574 Location: Cordova	X	X	4 oz., 8 oz., 4 # (hand pack) Frozen	Salmon Salmon, Dungeness crab, king crab, tanner crab, razor clams, halibut, bottom fish & herring (b
Seward Fisheries, Inc. 2/ L. Bardarson, Supt. P. O. Box 516 Seward, AK 99664 Location: Seward	X	X		Salmon, king crab, tanner crab, shrimp, herring roe, herring eggs on kelp, bottom fish

TABLE 1, cont. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of Cans Lines of Machinery	Type of Product
Sebastian Stuart Fish Co. J. Lind, Supt. P. O. Box 70548 Seattle, WA 98107. Location: Ellamar area	X		Salted	Herring eggs on kelp
Seward Marine Services 2/ E. M. Love, Supt. P. O. Box 335 Seward, AK 99664	X	X		Herring
Connie Taylor P. O. Box 969 Cordova, AK 99574 Location: Cordova	X	X	Fresh market	Shrimp
John Totemoff P. O. Box 892 Cordova, AK 99574 Location: Cordova	X		Fresh market	Shrimp
Valdez Fisheries R. Mathews, Supt. P. O. Box 425 Valdez, AK 99686 Location: Valdez		X	Fresh market	Shrimp
Warsaw Seafoods Company J. Zaremba, Supt. P. O. Box 304 Valdez, AK 99686 Location: Valdez		X	Fresh market	Halibut

TABLE ., cont. Fishery operators, Cordova area, 1972 and 1973.

Name, Executive, Address, Location of Operation	1972	1973	Size of Cans, Lines of Machinery	Type of Product
Whitney Fidalgo Seafoods, Inc. V. Paulson, Supt. P. O. Box 670 Cordova, AK 99574.	X		Custom canned by St. Elias Ocean Products	Salmon
Location: Whittier	X		Frozen	Halibut, bottom fish
Valdez	X		Frozen	King crab, bottom fish,
Ellamar area	X	X	Salted	herring eggs on kelp
Whittier/Anchorage		X		Salmon
Daniel York 6553 6th Ave. NW Seattle, WA 98501 Location: Ellamar area		X	Salted	Herring eggs on kelp
Royal Seafoods, Inc. 2/ R. Johnson, Supt. 7337 Old Seward Highway Anchorage, AK 99502 Location: Whittier		X		Salmon

1/ New England Fish Company customed canned for Alaska Packers Association and Morpac, Inc.

2/ No annual report of operation received from these operators.

ECONOMIC CONDITIONS

The communities of the Prince William Sound Area depend almost entirely on the fisheries of the area, and the economy, especially of Cordova, fluctutates almost directly with the fishing success.

Recent increases in salmon, shellfish and herring prices paid to fishermen (APPENDIX TABLE 2 and 3) have resulted in substantial benefits to the fishing communities. The ex-vessel price of herring for sac roe jumped from about $35 per ton in 1972 to $160 per ton in 1973. This relatively new industry in Prince William Sound showed a spectacular increase in 1973 and contributed approximately $977,620 of the $12.0 million paid to the area fishermen. FIGURE 2 shows the percentage value distribution of fish and shellfish paid to fishermen in 1973.

A fair to good economic condition exists at the present time as indicated by the gradual upgrading of the fishing fleet and the recent addition of several new vessels to the fishing fleet. Diversity of the fishing fleet which is indicated by the number of vessels engaged in both salmon and crab fisheries has probably contributed to some economic stability. Higher prices generally reflect the inflationary trend and has resulted in a shift from canned products to frozen products which require less labor, etc., and demand higher prices. TABLE 2 and 3 show the salmon product distribution by species for 1972 and 1973.

TABLE 4 shows the comparative catch value per fisherman by district for the years 1965 to 1973.

A summary of salmon gear operated in the Prince William Sound Area from 1960 to 1973 is presented in TABLE 5.

The numbers and value to fishermen of salmon landed in the Prince William Sound Area from 1951 to 1973 is shown in APPENDIX TABLE 1.

The 1972 wholesale value of fishery products from the Prince William Sound Area is presented in TABLE 92. APPENDIX TABLE 23 gives historical wholesale values from 1960 through 1972.

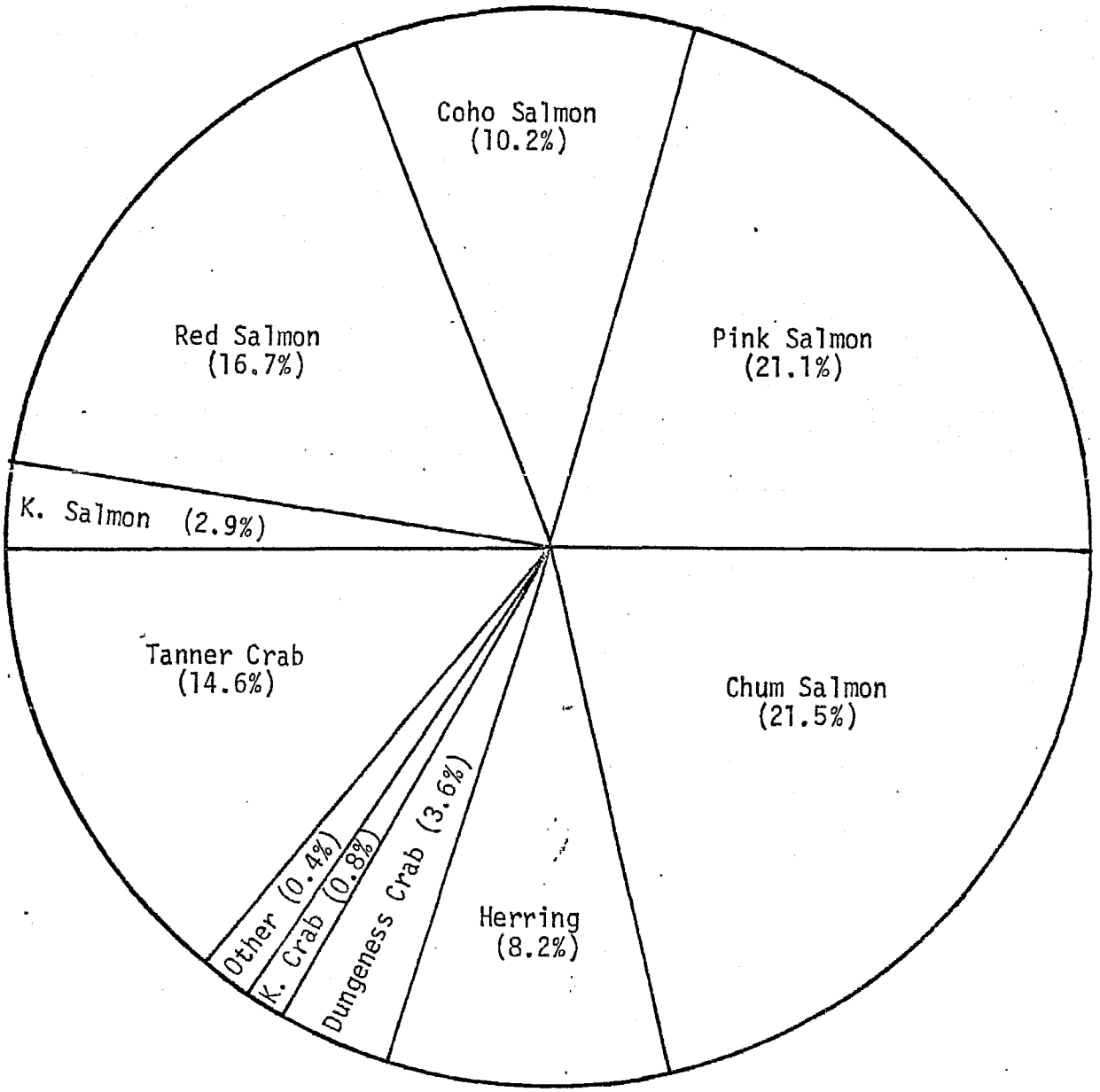

Figure 2. Percentage value to fishermen of fish and shellfish harvested from the Prince William Sound Area, 1973.

TABLE 2. Prince William Sound Area case pack and pounds of frozen salmon, by species, by week, 1972. 1/ 2/

	Kings		Reds		Cohos		Pinks		Chums	
Week	Pounds Frozen	Cases	Pounds Frozen	Cases	Pounds Frozen	Cases	Pounds Frozen	Cases	Pounds Frozen	Cases
23	240944	7.5	5273	24651.5						
24	317943	13.0	2903	10626.0						
25	210333	45.0	5273	3294.5						80.0
26	57389	59.5		8179.5						241.5
27	8806	31.5		9803.0				29.5		618.0
28	1831	6.0		11718.5		17.0		148.0		751.5
29	1292	6.5		5331.0		68.5		308.0		873.0
30		5.0		2519.5		96.0		409.0		973.0
31				1847.0		304.0		756.0		738.0
32	1100	3.0	26197	1721.5	10355	733.5	22677	705.0	19328	471.5
33			1065	911.0	32	144.0	892	311.0	270	191.0
34				925.0		84.0		424.0		718.0
35			25	103.0	175684	858.0	9	9.0	6	27.0
36					190298	936.0			49	
37					266091	2117.0	8		20	
38				1.0	29845	165.0		3.0		2.0
TOTAL	839638	177.0	40736	81632.0	672305	5523.0	23586	3102.5	19673	5684.5

1/ From reports of processors. Frozen salmon reported in raw weight and cases on the basis of 48 one pound cans.

2/ Approximate round weight in pounds of fish taken in Area E and processed in other areas totaled 50,976 kings and 372,453 reds.

TABLE 3. Prince William Sound Area case pack and pounds of frozen salmon, by species, by week, 1973. 1/ 2/

	Kings		Reds		Cohos		Pinks		Chums	
Week	Pounds Frozen	Cases	Pounds Frozen	Cases	Pounds Frozen	Cases	Pounds Frozen	Cases	Pounds Frozen	Cases
22	208663	14		10135						214
23	248230	80		8083				3		743
24	90572	16		3834						37
25	37536	27		5852				11		1182
26	25693	27	47131	3781	6		107	89	4442	1499
27	307		28645	4402		19	63	2193		2276
28	366		56134	1986	97	14	9916	956	10491	2568
29	90		27074	825	162	23	386	7547	673	5004
30			59725			50	23255	31240	119636	19303
31				1819	294	1274		24574	6790	15500
32			331	133	1880	802	2942	7022	30634	10958
33			32		11198	210	2915		41304	
34			3906		280345	230			78410	
35					356833	151				
36					331115	1001				
37					311917	2279				
TOTAL	611482	164	222978	40850	1293847	6053	39584	73635	292380	59284

1/ From reports of processors. Frozen salmon reported in raw weight and cases on the basis of 48 one pound cans.

2/ Approximate round weight in pounds of fish taken in Area E and processed in other areas totaled 38,277 kings, 328,872 reds, 43,624 cohos, 1,660,616 pinks, and 1,383.868 chums.

TABLE 4. Average salmon catch and catch value per fisherman, 1965 - 1973.

	Year	Average Value Per Fisherman	Average Catch 3/ King	Red	Coho	Pink	Chum	District
	1965	$2,214.92	4	545	48	14,396	1,577	Prince William Sound 1/
	1966	4,144.26		3,283	172	18,570	3,089	
	1967	1,703.77	1*	40	67	11,637	971	
	1968	1,440.40	1*	307	29	10,049	1,344	
	1969	3,907,00	3	627	26	20,607	1,315	
	1970	1,833.95	7	174	37	10,917	856	
**	1971	2,827.41	3	111	82	22,973	1,610	
**	1972		CLOSED TO PURSE SEINES					
**	1973	5,348.75	*	11	1	2,324	731	
	1965 2/	3,465.83		1,418	4	8,402	4,780	Coghill - Unakwik
	1966 2/	2,052.88	1*	1,012	1*	35	51	
	1967 2/	3,126.25	4	236	2	5,404	237	
	1968 2/	1,218.90	2	460	5	593	227	
	1969 2/	1,908.04	1	631	1*	53	559	
	1970 2/	970.12	*	266	2	640	105	
**	1971 2/	1,021.82	4	483	4	1,079	706	
**	1972 2/	2,323.18	*	742	1.5	48	98	
**	1973 2/	3,844.33	*	383	*	1,766	1,123	
	1965	890.73		533	2.5	12	14	Eshamy
	1966	4,028.02		1,317	47	2,404	527	
	1967			CLOSED				
	1968			CLOSED				
	1969	6,801.61	1*	2,940	9	1,203	382	
	1970	2,498.79	*	689	23	1,773	225	
	1971			CLOSED				
**	1972	2,398.91	*	588	13	504	290	
**	1973	4,144.95	1	351	3	458	586	
	1965	6,393.78	50	3,392	577			Copper River
	1966	8,122.97	33	3,625	1,115	1*	1*	
	1967	5,674.42	27	1,836	1,235			
	1968	4,507.65	18	1,150	1,228	1	1*	
	1969	4,277.23	40	1,956	219	2	1*	
	1970	7,179.00	48	2,772	623	*	*	
**	1971	5,756.45	37	1,415	474	4	11	
**	1972	5,776.03	53	1,725	426	5	2	
**	1973	6,946.01	47	773	494	*	*	
	1965	3,834.33		1,459	1,243			Bering River
	1966	4,398.90	1	1,236	1,373			
	1967	2,654.14		414	1,101			
	1968	5,328.09	1*	843	2,171			
	1969	2,344.36	1	1,154	122			
	1970	3,441.00	*	521	885			
**	1971	4,497.03	2	634	1,530			
**	1972	1,810.03	1	543	320	*	*	
**	1973	7,750.75	2	325	1,037	*	*	

* Less than one fish.
** Preliminary.
1/ Catch is average catch per boat. Value per fisherman based on an average of 3 fishermen per boat (one share to the boat).
2/ Includes both purse seines and drift gill nets during early Coghill season. Other years represent drift gill nets only.
3/ Rounded to nearest fish.

TABLE 5. Summary of salmon gear operated, 1960 - 1973. 1/

Year	Prince William Sound		Copper River Drift Gill Nets 2/		Bering River Drift Gill Nets 2/	
	Purse Seines	Gill Nets 2/	Red Season	Coho Season	Red Season	Coho Season
1960	223	CLOSED	59,400	34,050	9,900	8,400
1961	102	3,750 Coghill 4,200 Eshamy 3/	50,550	25,650	6,450	4,650
1962	237	8,550 Coghill 3,750 Eshamy 3/	59,100	27,450	9,900	4,500
1963	281	3,450 Coghill	61,650	37,950	8,250	8,250
1964	154	8,850 Coghill	43,350	30,900	4,800	6,300
1965	208	3,900 Coghill 6,150 Eshamy 3/	50,100	26,850	1,950	9,300
1966	181	8,850 Coghill & Unakwik 2,700 Eshamy 3/	52,200	30,300	3,600	6,750
1967	207	18,000 Coghill & Unakwik	59,100	30,600	6,000	8,250
1968	242	21,750 Coghill & Unakwik	76,650	28,800	4,650	4,650
1969	248	14,250 Coghill & Unakwik 4,350 Eshamy 3/	53,400	22,350	4,950	9,900
1970	245	19,800 Coghill & Unakwik 3,750 Eshamy 3/	60,450	38,850	7,350	13,650
1971	245 *	19,350 Coghill & Unakwik	65,400	26,250	8,700	9,450
1972	CLOSED	29,250 Coghill & Unakwik 13,500 Eshamy	63,300	36,300	14,100	9,300
1973	211 *	40,650 Coghill & Unakwik 7,050 Eshamy 3/	64,650	40,350.	7,200	9,450

1/ Peak effort.
2/ Fathoms of gear, weekly effort. Basis of 150 fathoms per fisherman.
3/ Includes set and drift gill nets.
* Actual count. Other years include some duplicates.

PRICE OF FISH AND SHELLFISH

Price negotiations were being conducted when the Copper River salmon season opened on May 15 and the price disagreements kept the fishermen on the beach until May 29, 1972. Also, in 1973 price negotiations continued until after the season opened on May 15 and no fishing was done until May 28. The prevailing prices paid for salmon is shown in APPENDIX TABLE 2 which shows a large increase for all salmon species. Coho salmon showed the highest increase in 1973 of about 330 percent above the 1972 price.

Following along the inflationary trend the crab and other fish prices also showed large increases in 1972 and 1973. Crab prices showed an increase of about 150 percent in 1973 over the previous year.

A large harvest of herring for sac roe was made in 1973 for which fishermen were paid $160 per ton. Herring spawn on kelp sold for fifty five cents per pound on the fishing grounds for an increase of five cents per pound above 1972 prices.

APPENDIX TABLE 4 lists the prices paid for shellfish and miscellaneous fish.

AVERAGE WEIGHT AND NUMBER OF SALMON PER CASE

The average weight of salmon by major fishery and species is shown in TABLE 6, and the number of salmon per case is given in TABLES 7 and 8. Average weights as given in TABLE 6 were calculated from numbers and weights recorded on fish tickets.

The number of salmon per case was obtained from the annual report of New England Fish Company's Orca Cannery. Historical data is presented in APPENDIX TABLE 5.

TIME OPEN TO FISHING AND CALENDAR WEEKS

The time open to fishing is expressed by month, day, gear and regulatory area in TABLES 9 and 10. Fishing time is shown in hours per day with the blanks denoting days closed to commercial fishing.

The calendar weeks shown in TABLES 11 and 12 were used in compiling catch statistics from the 1972 and 1973 landings.

TABLE 6. 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
	1966	8.40	7.34	8.39	4.14	7.73
	1967	6.70	6.62	8.95	4.45	8.26
	1968	11.87	6.81	8.57	3.92	8.89
	1969	27.29	6.32	7.63	3.90	9.40
	1970	14.75	6.98	7.91	3.98	8.33
	1971	9.54	7.02	7.77	3.55	7.24
	1972		SEASON CLOSED			
	1973		7.50	7.00	4.01	9.5
Copper River	1963	25.17	6.10	9.90	--	--
	1964	26.28	5.67	12.99	--	--
	1965	26.62	5.72	7.57	--	--
	1966	28.59	6.46	10.64	4.31	7.96
	1967	28.30	6.41	10.51	4.36	9.60
	1968	28.00	6.02	10.51	4.26	8.37
	1969	26.91	6.07	9.30	--	--
	1970	30.79	5.97	9.48	4.30	7.12
	1971	27.37	6.53	9.13	3.82	5.41
	1972	30.10	6.10	8.40	4.20	6.70
	1973	32.23	6.87	9.35		
Bering River	1963	27.07	5.88	9.86	--	--
	1964	28.70	6.28	8.85	--	--
	1965	32.00	5.88	9.06	--	--
	1966	28.61	6.50	10.12	--	--
	1967	36.15	6.17	10.36	--	--
	1968	--	5.05	10.10	--	--
	1969	28.41	6.25	8.26	--	--
	1970	37.00	5.92	9.62	--	--
	1971	24.39	6.76	9.81	3.50	
	1972	30.80	6.08	8.60	4.30	
	1973	36.92	7.10	9.39		
Averages 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
	1966	28.27	6.54	10.28	4.14	7.73
	1967	27.51	6.46	10.36	4.46	8.34
	1968	28.00	6.78	10.47	3.92	8.89
	1969	27.00	6.30	8.10	3.90	9.40
	1970	30.72	6.04	9.40	3.98	8.32
	1971	26.18	6.58	8.65	3.55	7.22
	1972	30.70	6.69	8.50	4.20	8.85
	1973	32.25	6.89	9.36	4.01	9.59

TABLE 7. Number of salmon per case, 1954 to present.

Prince William Sound

Year	Red	Coho	Pink	Chum
1954	9.5	9.7	16.5 1/	
1955	9.6	9.4	15.0	8.7
1956 2/				
1957	9.8	10.5	17.4	8.5
1958 2/				
1959		CLOSED SEASON		
1960	13.0	13.2	24.4	9.8
1961	10.4	9.0	17.0	9.3
1962	10.93	12.29	24.14	10.71
1963	9.53	7.23	22.89	9.14
1964 4/	13.52 3/	6.89	22.39	8.23
1965 4/	12.69 3/	10.31 5/	25.43 5/	10.23 5/
1966 4/	10.94	8.94	19.57	10.65
1967 6/	11.07	9.21	19.02	9.43
1968 6/	10.72	8.85	21.59	8.68
1969 6/	11.19	8.11	20.86	8.36
1970 6/	11.19	8.11	21.36	9.60
1971 6/	9.90	12.72	21.32	11.36
1972 6/	10.93	8.30	16.15	9.53
1973 6/	9.76	7.52	20.55	8.14

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/ Data 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, and chum 10.02.
6/ Data from New England Fish Company.

TABLE 8. Number of salmon per case, 1951 to present.

Copper and Bering Rivers

Year	King	Red	Coho	Pink	Chum
1951 1/	3.4	11.6	8.1	18.1	9.1
1952	3.4	11.6	8.1	18.1	9.1
1953 2/	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 2/	3.6	11.2	8.3	26.0	10.2
1957	3.8	11.6	--	--	--
1958 2/	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 3/	2.86	13.52	6.89	22.39	8.23
1965 3/	3.17	12.69 4/	10.31 4/	--	--
1966 5/	2.82	11.01	7.60	19.81	10.62
1967 6/	2.71	10.87	10.64	17.55	8.40
1968 6/	2.70	12.20	7.80	21.59	8.68
1969 6/	2.71	11.53	8.17	--	--
1970 6/	2.35	11.95	7.68	21.69	10.05
1971 6/	3.00	10.64	10.83	19.81	15.25
1972 6/		10.93	8.30	16.15	9.53
1973 6/	2.11	10.31	5.96	20.40	8.62

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.
5/ Data from Parks Canning Company.
6/ Data from New England Fish Company.

TABLE 9. Time open to salmon fishing by month, day, gear and regulatory area, 1972. 1/

MONTH	MAY	JUNE		JULY			AUGUST		SEPTEMBER
DAY	Copper River	Copper-Bering River	Coghill-Unakwik	Copper-Bering River	Coghill-Unakwik	Eshamy	Copper-Bering River	Eshamy	Copper-Bering River
1		6		6			24	24	24
2		24					6	24	6
3		6		18	18		6	24	
4				24	24		24	21	18
5		18		6	24	24	6		24
6		24		6	24	24			6
7		6		24	21	21	18	18	6
8		6		6			24	24	18
9		24					6	24	
10		6		18	18	18	6	24	
11				24	24	24	24	21	
12		18		6	24	24	6		
13		24		6	24	24			
14		6		24	21	21	18	18	
15	18	6		6			24	24	
16	24	24					6	24	
17	6	6*		18	18	18	6	24	
18	6			24	24	24	24	21	
19	24	18	18	6	18	24	6		
20	6	24	24	6		24			
21		6	24	24		21	18	18	
22	18	6	24	6			24	24	
23	24	24	21				6	24	
24	6	6		18		18	6	24	
25	6			24		24	24	18	
26	24	18	18	6		24	6		
27	6	24	24	6		24			
28		6	24	24		21	18		
29	18	6	24	6			24		
30	24	24	21				6		
31	6			18		18	6		

Total open hrs. by Month and gear	MAY	JUNE		JULY			AUGUST		SEPTEMBER
DGN	216	366	222	360	282	420	372	423	102
SGN						420		423	
PS			222		282				

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

* Bering River did not open until June 17.

TABLE 10. Time open to salmon fishing by month, day, gear and regulatory area, 1973. 1/

MONTH	MAY	JUNE		JULY				AUGUST			SEPTEMBER
DAY	Copper River	Copper-Bering River	Coghill-Unakwik	Copper-Bering River	Coghill-Unakwik	Eshamy	Prince William Sound	Copper-Bering River	Eshamy	Prince William Sound	Copper-Bering River
1		24						6	24	24	6
2		6		18	18	18		6	24	24	
3				24	24	24		24	21	21	18
4		18		6	24	24		6			24
5		24		6	24	24					6
6		6		24	21	21		18		18	6
7		6		6				24		24	24
8		24						6		21	6
9		6		18	18	18		6			
10				24	24	24		24			18
11		18		6	24	24		6			24
12		24		6	24	24					6
13		6		24	21	21		18			6
14		6		6				24			18
15	24	24						6			
16	6	6		18	18	18		6			
17	6			24	24	24		24			
18	24	18*	18	6	24	24		6			
19	6	24	24	6	24	24					
20		6	24	24	21	21		18			
21	18	6	24	6				24			
22	24	24	21					6			
23	6	6		18		18	18	6			
24	6			24		24	24	24			
25	24	18	18	6		24	24	6			
26	6	24	24	6		24	24				
27		6	24	24		21	21	18			
28	18	6	24	6				24			
29	24	24	21					6			
30	6	6		18		18	18	6			
31	6			24		24	24	24			

Total Open hrs. by Month and gear	MAY	JUNE		JULY				AUGUST			SEPTEMBER
DGN	204	366	222	378	333	486		372	69		162
SGN						486			69		
PS			222		333		153			132	

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

* Bering River did not open until June 17.

TABLE 11. Calendar weeks, 1972. 1/

Week	From	Thru	Week	From	Thru
1	Jan. 1	Jan. 1	28	July 2	July 8
2	Jan. 2	Jan. 8	29	July 9	July 15
3	Jan. 9	Jan. 15	30	July 16	July 22
4	Jan. 16	Jan. 22	31	July 23	July 29
5	Jan. 23	Jan. 29	32	July 30	Aug. 5
6	Jan. 30	Feb. 5	33	Aug. 6	Aug. 12
7	Feb. 6	Feb. 12	34	Aug. 13	Aug. 19
8	Feb. 13	Feb. 19	35	Aug. 20	Aug. 26
9	Feb. 20	Feb. 26	36	Aug. 27	Sept. 2
10	Feb. 27	Mar. 4	37	Sept. 3	Sept. 9
11	Mar. 5	Mar. 11	38	Sept. 10	Sept. 16
12	Mar. 12	Mar. 18	39	Sept. 17	Sept. 23
13	Mar. 19	Mar. 25	40	Sept. 24	Sept. 30
14	Mar. 26	Apr. 1	41	Oct. 1	Oct. 7
15	Apr. 2	Apr. 8	42	Oct. 8	Oct. 14
16	Apr. 9	Apr. 15	43	Oct. 15	Oct. 21
17	Apr. 16	Apr. 22	44	Oct. 22	Oct. 28
18	Apr. 23	Apr. 29	45	Oct. 29	Nov. 4
19	Apr. 30	May 6	46	Nov. 5	Nov. 11
20	May 7	May 13	47	Nov. 12	Nov. 18
21	May 14	May 20	48	Nov. 19	Nov. 25
22	May 21	May 27	49	Nov. 26	Dec. 2
23	May 28	June 3	50	Dec. 3	Dec. 9
24	June 4	June 10	51	Dec. 10	Dec. 16
25	June 11	June 17	52	Dec. 17	Dec. 23
26	June 18	June 24	53	Dec. 24	Dec. 30
27	June 25	July 1	54	Dec. 31	Dec. 31

1/ Used for 1972 catch statistics.

TABLE 12. Calendar weeks, 1973. 1/

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

1/ Used for 1973 catch statistics.

BERING RIVER DISTRICT

INTRODUCTION

The Bering River District is located between Cape Martin and Cape Suckling. Salmon commercially harvested in this area normally spawn in streams and rivers emptying into Controller Bay. However, the Bering River - Bering Lake system is the main salmon producer. Red and coho salmon are the primary important species harvested in this district.

Weekly fishing periods for red salmon are divided into two equal open and closed periods of three and one-half days each. Fishing during the coho salmon season is allowed five days per week.

Red Salmon

The Bering River commercial fishery opened June 19 in 1972 with 96 boats participating in the fishery. Although strong westerly winds hampered fishing effort 38,163 red salmon were delivered. The season lasted only three weeks, but during this time 51,445 red salmon were harvested. The total catch for the season was the highest recorded since 1962, TABLE 13.

In 1973 the commercial fishery began on June 18 and continued for two weeks. During that time only 15,426 red salmon were harvested, TABLE 16 The total catch was approximately 35,000 red salmon below the 1972 harvest and 15,000 below the 20 year average.

The catch figure is not truly indicative of the strength of the run since escapements into the Bering River system were quite good. However, it was apparent that the run returned early and the opening date allowed only a partial harvest of the tail end of the run.

FIGURE 3 shows commercial catches of red and coho salmon from 1954 to 1973.

Coho Salmon

The coho salmon fishery is the major fishery in this district, and for the past 15 years annual catches have averaged over 55,000 salmon. In 1972 it was apparent that the returning run was below average, and the season was closed by emergency order on September 5. During the season only 19,825 cohos were harvested, TABLE 15, which is the lowest recorded catch since 1967 and is approximately 35,000 fish below the 15 year average.

The 1973 coho salmon harvest was average for the district. During the peak of this run 77 boats fished the district and harvested a total of 65,348 cohos. This season was characterized by excellent fishing weather and very few hours were missed due to storms. TABLE 18 summarizes the season catch and associated data and catches from 1953 to 1973 are shown in TABLE 19. Catch trends for past years are presented graphically in FIGURE 3 while APPENDIX TABLE 6 compares catches beginning with 1896.

King Salmon

TABLE 14 and 17 present king salmon catches for the 1972 and 1973 seasons.

Escapement

The Bering River red salmon escapements in 1972 were the lowest recorded for the last four years. The red salmon run into the district was late which allowed fishing prior to the peak of the run. Normally commercial fishing occurs only during the peak of the run and the early segment of the run in not harvested.

The 1973 red salmon escapements into the various systems were very good although peak counts of some of the spawning systems were low due to silty, murkey water.

TABLE 20 presents comparable red salmon escapement estimates into the various index streams of this system.

Coho salmon escapement surveys were flown, but counts were minimal. Comparisons with surveys of past years cannot be made due to the irregularity of good survey weather at this time of year.

TABLE 13. Bering River red salmon weekly catch, 1972.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
26	38,171	234,370	6.1	96	398
27	12,227	72,364	5.9	58	211
28	1,047	6,203	5.9	13	81
TOTAL	51,445	312,937	6.1		

TABLE 14. Bering River king salmon weekly catch, 1972.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
26	93	2,762	29.6	93	1
27	13	497	38.2	57	
28	1	35	35	11	
TOTAL	107	3,294	34.2		

TABLE 15. Bering River coho salmon weekly catch, 1972.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
28	138	1,290	9.3	11	12
35	971	7,703	8.1	12	81
36	7,483	61,642	8.2	60	125
37	11,233	99,788	8	63	178
TOTAL	19,825	170,423	8.4		

1/ 150 fathoms drift gill net per boat.

In addition 3 pinks and 1 chum were taken.

TABLE 16. Bering River red salmon weekly catch, 1973.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
25	12,280	87,303	7.1	63	194.9
26	3,146	22,167	7.0	30	104.8
TOTAL	15,426	109,470	7.0		

TABLE 17. Bering River king salmon weekly catch, 1973.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boats
25	272	4,712	17.3	63	43.1
26	13	567	43.6	30	
TOTAL	285	5,279	30.4		

TABLE 18. Bering River coho salmon weekly catch, 1973.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
34	14,355	129,684	9.0	57	251.8
35	21,385	197,534	9.2	77	277.7
36	17,245	167,695	9.7	73	236.2
37	12,363	119.747	9.6	59	209.5
TOTAL	65,348	614,660	9.3		

1/ 150 fathoms of drift gill net per boat.

In addition 2 pinks and 5 chums were taken.

TABLE 19. Bering River drift gill net salmon catch, 1953 - 1973.

Year	Kings	Reds	Cohos	Pinks	Chums
1953	26	8,572	0	0	0
1954 2/	0	129	91,964	9	1
1955	125	34,121	70,100	50	2
1956	147	41,437	53,484	46	5
1957	71	29,142	27,441	27	22
1958	72	23,947	21,202	32	1
1959	77	27,384	58,560	6	0
1960	63	32,890	68,255	101	5
1961	29	55,084	50,883	30	1
1962	246	72,230	55,502	0	2
1963	172	21,525	87,507	56	0
1964	44	16,911	77,360	0	0
1965	7	13,536	52,162	7	164
1966	36	24,894	49,580	0	0
1967	13	11,464	46,135	3	2
1968	10	26,136	67,310	0	0
1969	44	38,093	4,033	0	0
1970	26	23,539	79,264	0	0
1971	105	36,776	88,231	4	0
1972	107	51,445	19,825	3	1
1973	285	15,426	65,348	2	5
TOTAL	1,705	604,681	1,134,146	376	211
AVERAGE	81	28,794	54,006	18	10

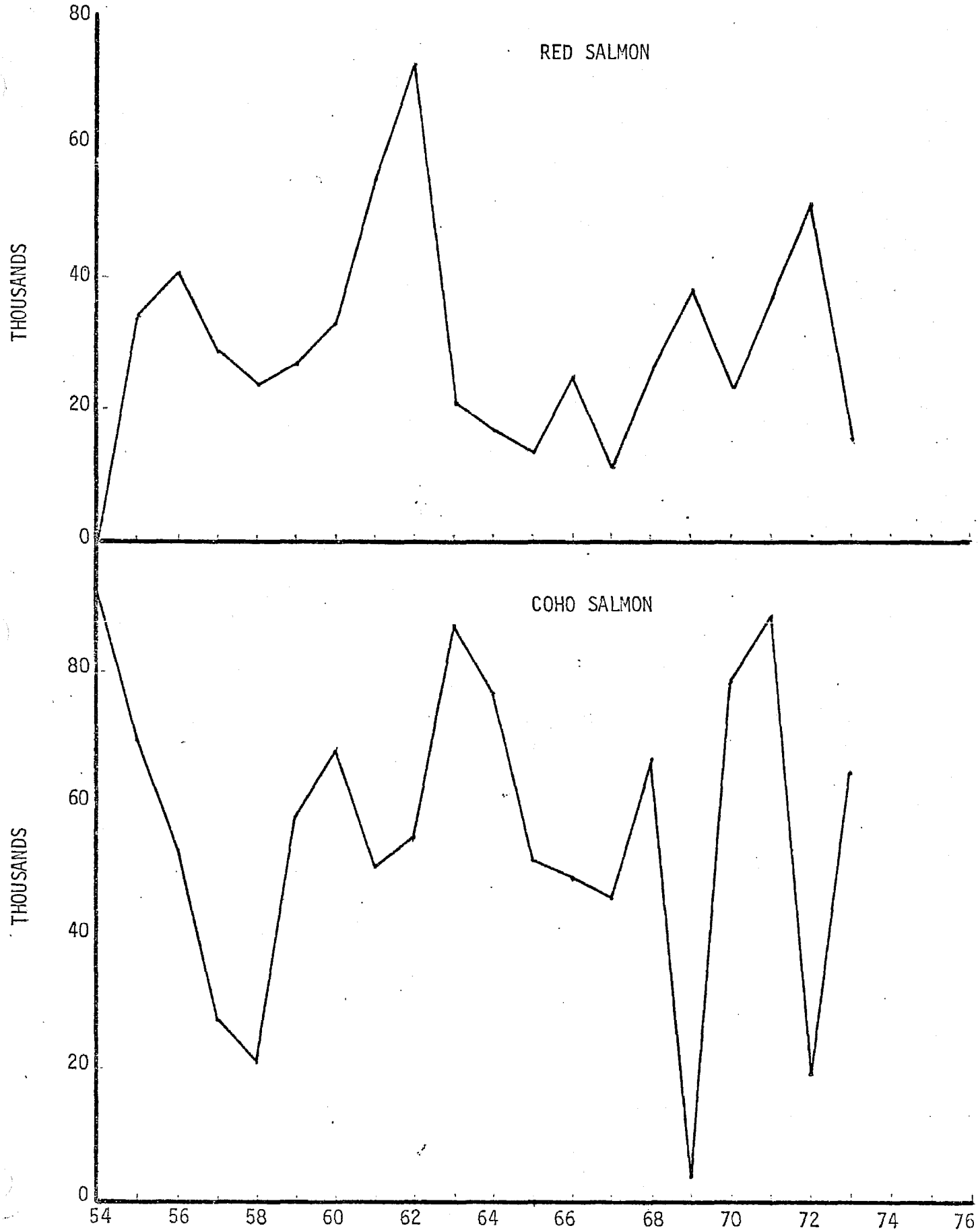

Figure 3. Commercial catches of red and coho salmon from the Bering River district, 1954 to 1973.

TABLE 20. Comparable estimated red salmon spawning escapements on selected systems, Copper - Bering River districts, 1966 - 1973.

System	1966	1967	1968	1969	1970	1971	1972	1973
Eyak Lake	5,400	800	1,360	21,000	28,742	5,800	12,275	6,000
McKinley Lake	4,000	1,200	0	500	5,000	1,700	600	1,800
39 Mile Creek	4,550	1,120	2,000	3,000	5,997	8,270	14,910	5,500
Tokun Lake	4,900	turbid	3,500	700	19,764	23,000	1,850	3,455
Little Martin Lake	1,050	800	0	400	0	3,000	3,000	1,500
Martin Lake	7,510	5,400	1,000	1,500	600	4.500	6,500	2,000
Martin River Slough	2,145	600	3,500	4,000	4,450	5,000	5,000	2,000
Copper River Subtotal	29,550	9,920	11,360	31,100	64,553	51,270	44,135	22,255
Bering Lake	3,180	2,500	9,400	47,000	20,000	21,675	2,000	2,300
Dick Creek	3,000	4,350	19,000	15,000	13,500	30,000	16,000	9,600
Shepard Creek	NS	NS	NS	6,000	6,000	10,200	6,000	3,000
Bering River Subtotal	6,180	6,850	28,400	62,000	39,500	61,875	24,000	14,900
Mentasta Lake	6,500	1,700	850	2,700	4,958	3,195	1,450	6,196
Gulkana River	13,180	31,450	12,859	15,615	24,998	11,150	22,363	32,812
St. Anne Creek	5,800	4,800	5,424	4,300	18,300	25,100	1,900	7,400
Mahlo River	3,300	turbid	2,585	3,300	8,631	12,400	1,525	4,500
Manker Creek	0	0	25	NS	0	NS	NS	
Bad Crossing	6,030	150	NS	3,500	1,650	NS	0	
Mendeltna Creek	3,000	4,800	1,959	6,805	4,700	870	2,404	2,868
per Copper River Subtotal	42,900	23,702	18,906	32,220	63,237	52,715	29,642	53,776
Copper River Delta	29,550	9,920	11,360	31,100	64,553	51,270	44,135	22,255
Bering River District	6,180	6,850	28,400	62,000	39,500	61,875	24,000	14,900
Upper Copper River	42,900	23,702	18,906	32,220	63,237	52,715	29,642	53,776
TOTALS	78,630	40,472	58,666	125,320	167,290	165,860	97,777	90,931

NS - No Survey.

COPPER RIVER SALMON DISTRICTS

INTRODUCTION

The Copper River district includes all waters of Hinchinbrook Island between Hook Point and Boswell Rock to the radio tower at Whitshed Village. All waters between Whitshed Village and Cape Martin are also included in this district.

Commercial fishing for red salmon in this district begins on May 15 of each year, and is regulated by a series of equal open and closed fishing periods. Prior to August 7 open fishing is permitted for three and one-half days each week. After August 7 commercial fishing for coho salmon is allowed on a five day per week basis. Each boat registered to fish this area is allowed a maximum of 150 fathoms of drift gill net.

The major commercial harvest occurs on red and coho salmon although king, chum and pink salmon are also taken incidentally.

Red Salmon

In 1972 the Copper River drift gill net commercial fishery was scheduled to open May 15, but due to price negotiations and ice conditions, very little effort was made to fish before May 29.

The catches during that week were above average. The peak of the run appeared during that week when approximately 475 fishermen caught 343,160 red salmon. The seasonal total catch of 727,144 red salmon, TABLE 21, was above average and approximately 200,000 above the parent year return. APPENDIX TABLE 7 compares annual catches since 1889.

The 1973 commercial red salmon catch was the lowest recorded in the district since 1959. Fishermen and processors did not reach price agreements until week 22. which was approximately three weeks after the season officially opened. No fish were delivered during the strike period.

Because of the "fishermen imposed" delayed opening the early portion of the run was missed. This was primarily responsible for the decreased catch, but the late run was also below average return levels which contributed to the decreased harvest.

Although 709 fishermen were registered to fish the area, fishing effort during any period never went beyond 523 boats. TABLE 24 and FIGURE 4 and 6 present weekly catches, effort and seasonal comparisons of this fishery.

Coho Salmon

The Copper River coho salmon drift gill net fishery opens on August 7 and fishing is then allowed on a five day per week basis. Prior to August 7 cohos are taken incidentally in the red salmon fishery. Although the season opened on schedule coho salmon prices were not settled until August 21 and fishermen did not begin fishing until that day in 1972.

The first week's catch after the price settlement was below average, but fishing effort was curtailed by bad weather. Run strength was difficult to ascertain when fishing conditions improved, and the catch was still below average. The season was closed on September 5. The seasonal catch of 103,021 coho salmon was approximately 100,000 below the 1971 catch and 30,000 less than the 16 year average. APPENDIX TABLE 7 presents annual catches since 1889 while TABLE 23 gives catch statistics by week for 1972.

The 1973 coho salmon catch was below average for the second year in a row, and as in 1972, the season was closed early by emergency order. The total season harvest of 132,164 is indicative of a gradual catch decline in this fishery. From 1960 to the present time, when three year averages are considered, the annual coho catch has dropped from 189,632 to 106,771. The 1973 harvest, although above the 106,771 average, was the result of a fairly strong early return. The strength of the early return was due primarily to a fishermen's strike which took place during the parent year return of 1969. The 1973 catch decline is directly corralated with the time period in which the strike ended in 1969 and when the fishermen returned to the fishing grounds.

Season catches, catch comparisons and associated data are presented in TABLE 26 and FIGURE 5. APPENDIX TABLE 7 presents historical catches from 1889.

King Salmon

The commercial catch of this salmon is taken incidental to the red salmon harvest. The 1972 catch of 22,250 king salmon was the largest recorded in the last 16 year. TABLE 22 gives weekly catch statistics of this fishery.

In 1973 the king salmon fishery continued to improve with a seasonal catch of 19,947. The average weight of this fish was 30 pounds. It is unusual to catch fish of this size in a drift gill net fishery utilizing gill nets of 5 3/8 inch mesh size.

TABLE 25 gives weekly catches, effort and weight while APPENDIX TABLE 7 compares total seasonal catches for past years.

Subsistence Fishery

A limited salmon subsistence fishery with dip nets and fishwheels is allowed on the upper Copper River from June 1 until August 15, In 1972 a total of 3,700 permits were issued. Catches totaled 26,850 reds and 1,501 kings. On the Copper River flats catches of 569 reds, 149 kings and 53 cohos were reported. TABLE 27 presents data of the upper and lower Copper River subsistence fishery for 1972.

In 1973 the number of subsistence fishing permits issued for the upper Copper River increased to 4,145. Catches from returned permits totaled 27,350 reds, 1,865 kings and 41 cohos. Ninety-four permits were issued to fish drift gill nets on the Copper River flats. Catches from returned reports amounted to 326 reds, 153 kings and 180 coho, TABLE 28.

APPENDIX TABLE 8 presents historical data for the upper Copper River subsistence fishery.

Escapements

Red salmon escapements into the spawning streams of the Copper River delta in 1972 looked better than in 1971, but upriver escapements appeared to be down from the previous year. King salmon escapements were very good while coho escapements were very weak.

In 1973 red salmon escapements into most spawning systems were below the 1972 levels. The fishermen's strike assisted early upriver escapements, but delta runs were hit fairly hard, and escapement totals were about one-half of the 1972 recorded totals.

Coho salmon surveys flown on four different occasions revealed escapements were very poor into most systems. Eyak Lake coho runs were again strong, and the escapement into that system looked very good.

TABLE 20 gives escapement estimates for the various areas for years 1966 - 1973. TABLE 29 and 30 show spawning escapements into the upper and lower Copper River systems.

Copper River sockeye salmon catch by age class contribution by sex and week for 1972 is found in TABLE 31.

TABLE 21. Copper River red salmon weekly catch, 1972.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
23	343,160	2,085,772	6.1	475	722
24	130,238	788,818	6.1	523	249
25	39,993	241,307	6.0	442	90
26	51,842	312,377	6.0	338	153
27	59,544	364,393	6.1	302	197
28	41,129	259,546	6.3	258	159
29	25,262	161,443	6.4	179	141
30	16,309	104,767	6.4	160	102
31	14,258	90,394	6.3	137	104
32	5,385	32,619	6.1	129	42
35	22	138	6.3	1	22
36	2	14	7.0	1	2
TOTAL	727,144	4,441,588	6.2		

TABLE 22. Copper River king salmon weekly catch, 1972

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
23	8,330	242,823	29.1	475	17
24	9,118	272,075	29.8	523	17
25	3,890	124,383	32.0	442	9
26	699	23,827	34.1	338	2
27	147	4,792	32.6	302	
28	36	1,140	31.7	258	
29	15	377	25.1	179	
30	8	228	28.5	160	
31	5	145	29.0	137	
32	2	32	16.0	129	
TOTAL	22,250	669,822	28.8		

1/ 150 fathoms of drift gill net gear per boat.

TABLE 23. Copper River coho salmon weekly catch, 1972.

Week No.*	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
25	21	121	5.7	442	
26	3	25	8.3	338	
27	24	152	6.3	302	
28	113	818	7.2	258	
29	212	1,382	6.5	179	
30	401	2,963	7.4	160	3
31	1,530	9,891	6.5	137	11
32	6,971	47,121	6.8	129	54
35	33,946	274,953	8.1	239	142
36	26,499	227,814	8.6	257	103
37	33,301	301,633	9.0	226	173
TOTAL	103,021	866,873	7.3		

1/ 150 fathoms of drift gill net gear per boat.

* Fishermen on strike week 33 and week 34.

TABLE 24. Copper River red salmon weekly catch, 1973.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boats
22	122,595	823,920	6.7	435	281.8
23	76,285	526,153	6.8	415	183.8
24	44,347	307,346	6.9	369	120.1
25	27,547	187,021	6.7	181	152.1
26	20,611	142,833	6.9	158	130.4
27	15,478	108,179	6.9	106	146.0
28	12,590	89,817	7.1	96	131.1
29	8,742	62,446	7.1	75	116.5
30	3,080	21,556	6.9	37	83.2
31	1,316	8,768	6.6	37	35.5
32	222	1,620	7.2	72	3.0
34	3	25	8.3	199	
TOTAL	332,816	2,279,684	7.0		

TABLE 25. Copper River king salmon weekly catch, 1973.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
22	9,308	316,093	33.9	435	21.4
23	6,127	207,128	33.8	415	14.7
24	3,041	101,916	33.5	369	8.2
25	1,129	37,408	33.1	181	6.2
26	259	8,861	34.2	158	1.6
27	54	1,802	33.3	106	
28	12	397	33.0	96	
29	10	171	17.1	75	
32	4	67	16.7	72	
33	1	35	35.0	130	
34	1	20	20.0	199	
35	1	40	40.0	230	
TOTAL	19,947	673,938	31.1		

1/ 150 fathoms of drift gill net per boat.

TABLE 26. Copper River coho salmon weekly catch, 1973.

Week No.	Total Catch	Total Pounds	Average Wt./Fish	Number Boats 1/	Average No. Fish/Boat
23	265	1,692	6.3	415	
24	6	40	6.6	369	
27	1	7	7.0	106	
28	2	14	7.0	96	
29	26	190	7.3	75	
30	518	3,431	6.6	37	14
31	2,423	16,194	6.6	37	654
32	8,631	62,479	7.2	72	120
33	15,147	117,592	7.7	130	116
34	24,999	234,907	9.3	199	125
35	34,181	336,949	9.8	230	149
36	23,590	235,905	10.0	196	120
37	22,375	226,075	10.1	171	131
TOTAL	132,164	1,235,475	7.8		

1/ 150 fathoms of drift gill net per boat.

In addition 8,964 pinks and 10,173 chums were harvested.

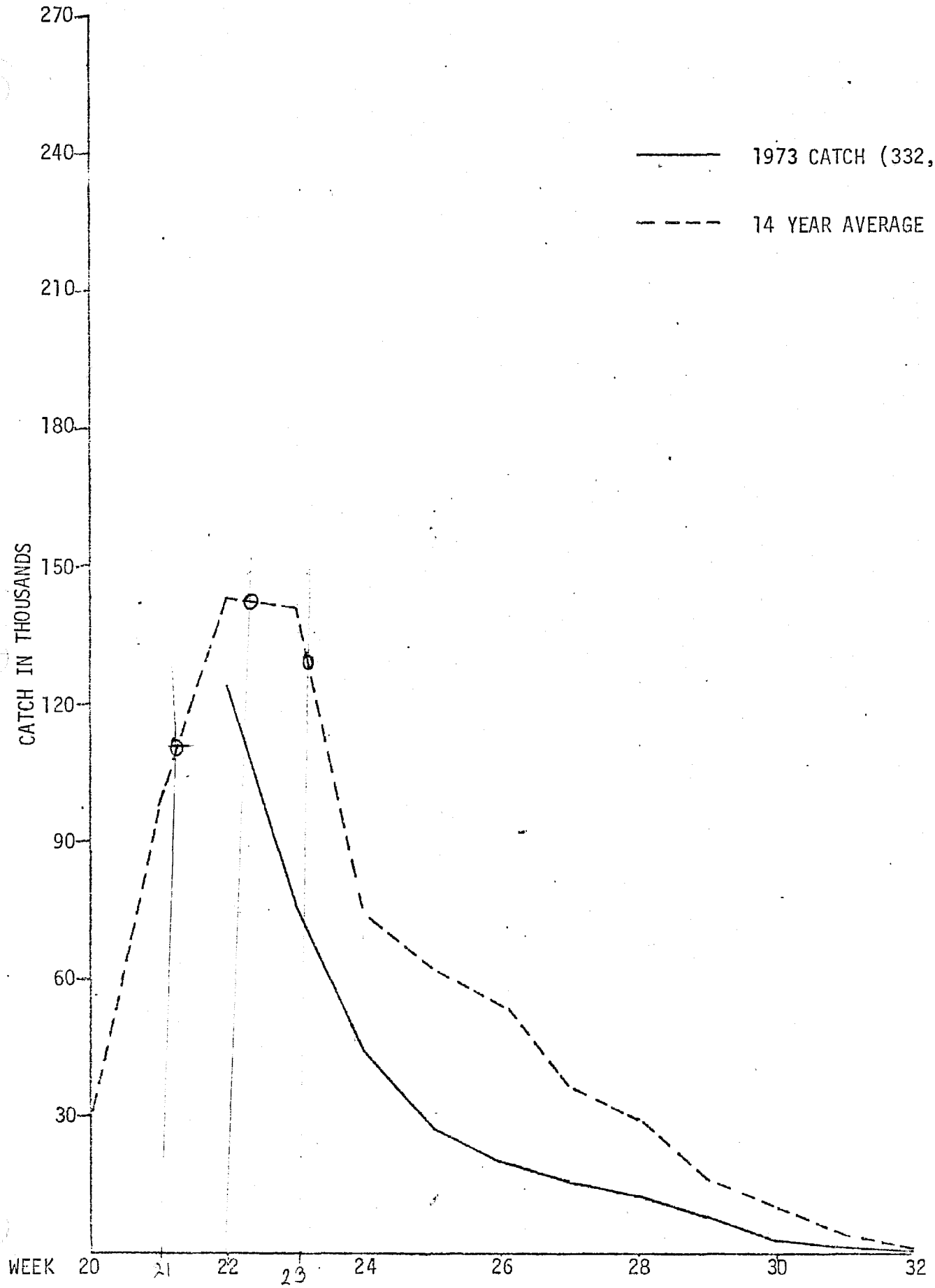

FIGURE 4. Copper River 1973 red salmon catch as compared to a 14 year average.

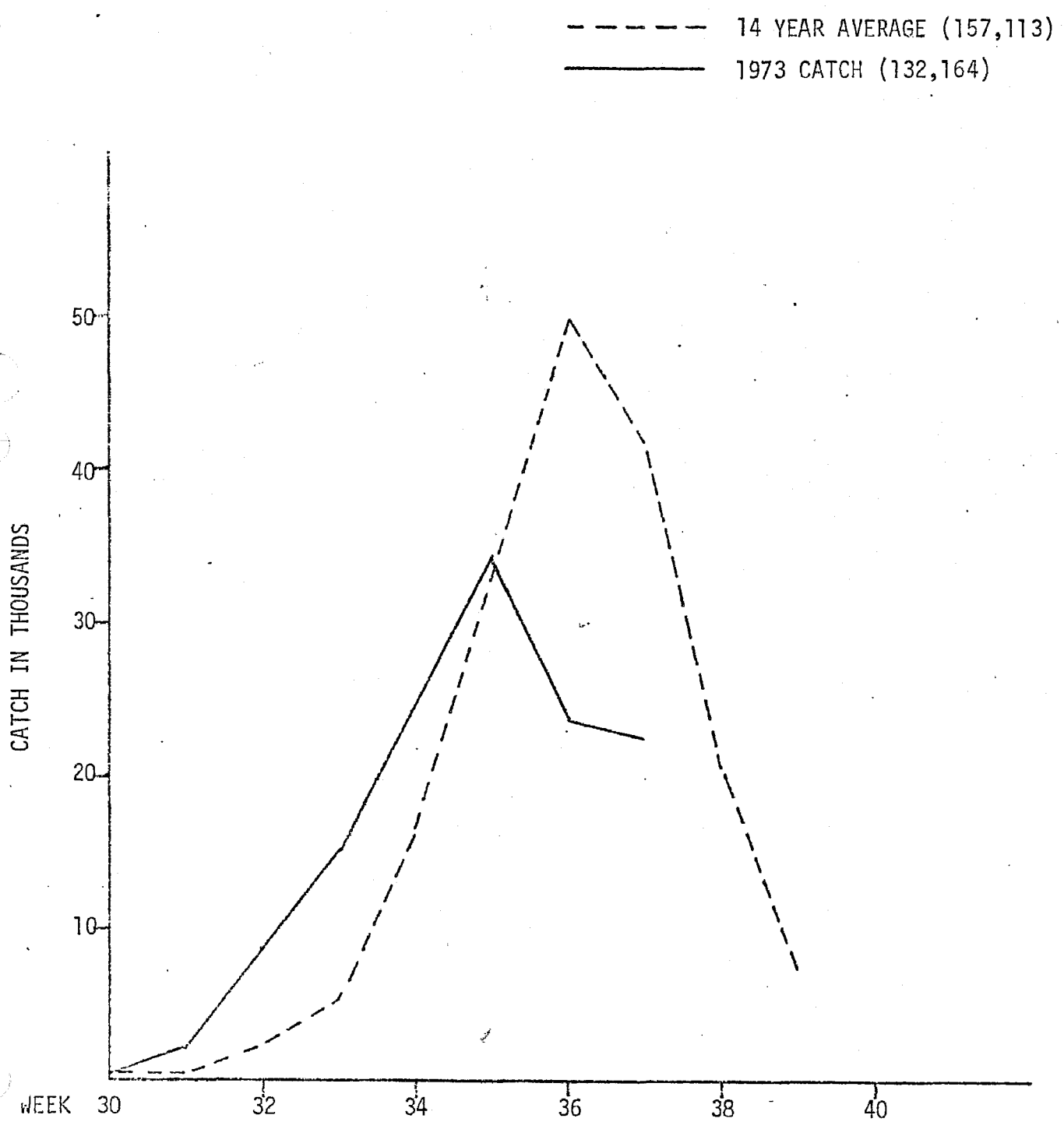

FIGURE 5. Copper River 1973 coho salmon catch as compared to a 14 year average.

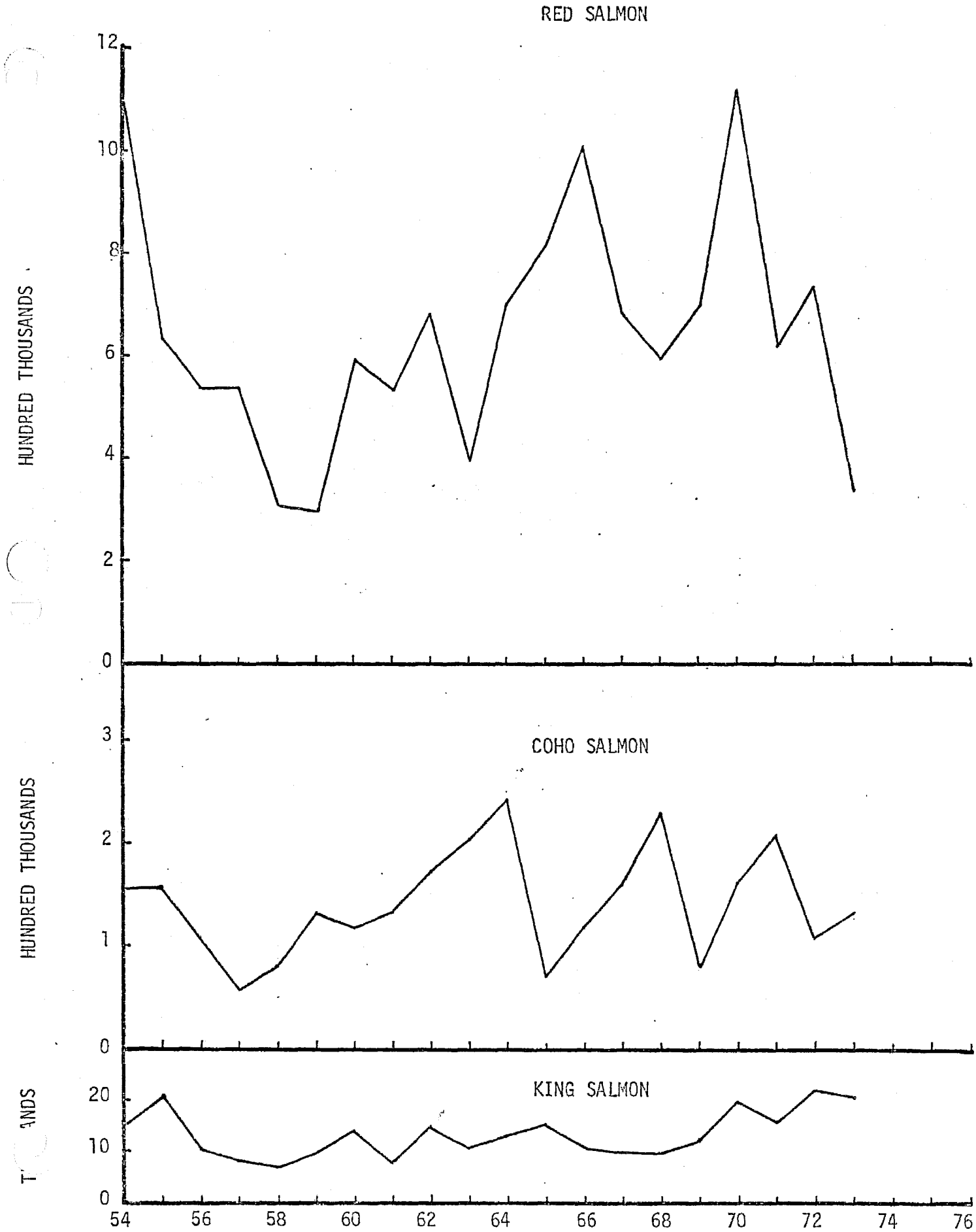

FIGURE 6. Commercial catches of red, coho and king salmon from the Copper River District from 1954 to 1973

TABLE 27. Prince William Sound Area subsistence fishery, 1972. 1/

Area	Number Permits Issued	Number Permits Returned	Type of Gear	Catch			
				Reds	Kings	Cohos	Other 2/
Upper Copper River	3,700	3,308	Fishwheel and Dip Net	7,854	302	52	14
				18,996	1,199	196	2
Lower Copper River	104	80	Gill Net	569	149	53	
TOTAL	3,804	3,388		27,419	1,650	301	16

1/ Compiled from reports received through May 1, 1973.

2/ Includes whitefish, lamprey and grayling.

TABLE 28. Prince William Sound Area subsistence fishery, 1973. 1/

Area	Number Permits Issued	Number Permits Returned	Type of Gear	Catch			
				Reds	Kings	Cohos	Other 2/
Upper Copper River	305	271	Fishwheel	10,943	639	41	56
Upper Copper River	3,840	3,486	Dip Net	16,407	1,226	10	14
Copper River Flats	94	89	Gill Net	326	153	180	
Prince William Sound	19	16	Gill Net			289	
Eyak & McKinley Lakes 3/	10	9	Gill Net				945
TOTAL	4,268	3,871		27,676	2,018	420	1,015

1/ Compiled from reports received through April 30, 1974.

2/ Includes whitefish, steelhead, cutthroat, dolly varden, lamprey and lingcod.

3/ Whitefish permits.

TABLE 29. Estimated red salmon spawning escapements, Copper River delta, 1972, 1973.

System	Estimated Escapement	
	1972	1973
Eyak Lake	12,275	6,000
Hatchery Creek	403	687
McKinley Lake	600	1,800
Salmon Creek	7,204	2,000
25.6 Mile Creek	600	600
27 Mile Creek	900	600
39 Mile Creek	14,910	5,500
Goat Mountain Creek	5,500	2,100
Pleasant Creek	550	132
Deadwood Lake	turbid	0
Tokun Lake	1,850	3,455
Martin Lake	6,500*	2,000
Little Martin Lake	3,000	1,500
Pothole Lake	1,500	Bog Colored
Ragged Point Lake	5,000	5,300
Martin River Sloughs	5,000	2,000
Martin Creeks	13,000	5,000
TOTAL	78,792	38,674

* Includes 1500 at mouth of Martin River.

TABLE 30. Estimated spawning escapement of red and king salmon to upper Copper River, 1972 and 1973. 1/

System	Estimated Escapement 1972 Red	1972 King	1973 Red	1973 King
Bremner Drainage				
Peninsula Lake	30		325	
Little Bremner River	NS		NS	
Salmon Creek	0		200	
Tiekel Lake	0		NS	
Chitina Lakes	NS		NS	
Long Lake	3,000		150	
Canyon Creek	30		15	
Tana Lake	80		30	
Tana Lake Outlet	100		1,395	
Nizina River	GLACIAL			
Tanada Lake & Creek	930		10	
Copper Lake	300		2	
Suslota Lake	4,830		7,765	
Sinona Creek				
Mentasta Lake & Fish Creek	1,450		6,196	
Slana River	GLACIAL		10,375	
Ahtell Creek		0	NS	
Indian Creek		13	NS	
Mankomen Lake	0		0	
East Fork Chistochina		348	50	486
Gulkana River	1,280	992		457
Gunn Creek	27		65	
Fish Lake	5,707		6,300	
Summit Lake	0		2	
Summit Lake to Paxson	6,164		5,700	
Paxson, Mud Creek, Mud Lake	5,818		6,960	
Paxson Lake Outlet	2,750	13	4,300	24
Middle Fork	80	195	5,200	110
Swede Lake	400		350	
Dickey Lake	137		2,500	
West Fork Gulkana	0		1,435	3
Oldman Lake & Mendeltna Creek	2,404	49	2,868	15
Tazlina Lake	0		0	
Kiana Creek		89	151	172
St. Anne Creek	1,900	25	7,400	
Klutina Lake Outlet	2,000	25	1,000	5
Mahlo Creek	1,525		4,500	
Manker Creek		4		17
Tonsina Lake	250		300	
Greyling Creek		47		47
Little Tonsina River	0			100
TOTAL	41,192	1800	75,544	1,436

1/ Derived from aerial and/or ground counts.

TABLE 31. Upper River sockeye salmon catch by age class contribution by sex and week, 1972.

WEEK		AGE CLASS 4_1		4_2		5_1	5_2		5_3		6_2		6_3		7_3		7_4		TOTAL
		M	F	M	F	M	M	F	M	F	M	F	M	F	F	F	M	F	
23	Sample %	.7	.5	1.8	1.8		30.6	19.2		.2	.5	.2	27.0	16.8	.2		.3	.2	607
5/28 - 6/3	Catch	2404	1717	6182	6182		105092	65940		687	1717	687	92729	57697	687		1030	687	343,160
24	Sample %	2.1	1.3	6.5	3.6	.3	50.2	18.8	.3	.5			9.1	7.0		.3			384
6/4 - 6/10	Catch	2699	1671	8356	4628	386	64532	24167	386	643			11698	8998		386			130,238
25	Sample %	2.4	1.6	13.6	10.4		36.4	21.7	.7	.2	.7		7.3	5.0					383
6/11 - 6/17	Catch	958	638	5427	4150		14526	8660	297	80	279		2913	1995					39,993
26	Sample %	1.8	1.8	17.5	3.6		43.7	22.2	.9	.5	.2		4.7	3.1					446
6/18 - 6/24	Catch	933	933	9067	1865		22643	11503	466	259	104		2435	1606					51,842
27	Sample %			23.4	13.1		29.2	26.3			.7		2.9	4.4					137
6/25 - 7/1	Catch			13712	7677		17111	15412			410		1699	2578					59,544
28	Sample %		.6	3.8	6.0		40.7	38.5					6.6	3.8					182
7/2 - 7/8	Catch		247	1566	2473		16772	15866					2720	1566					41,210
TOTALS	%	1.4	1.0	9.6	5.1	.05	38.7	22.3	.4	.3	.3	.1	12.3	8.2	.05	.05	.1	.05	2139
	Catch	9289	6635	63698	33839	332	256781	147965	2654	1991	1991	664	81613	54408	332	332	664	332	727,144
SEXES COMBINED	%	2.4		14.7		.05	61.0		.7		.4		20.5		.1		.15		
	Catch	15924		97537		332	404746		4645		2654		136021		664		995		727,144

PRINCE WILLIAM SOUND SALMON DISTRICTS

INTRODUCTION

The Prince William Sound Area is divided into six major districts principally for the management of a purse seine fishery for pink and chum salmon. The Sound is further divided into three smaller districts for the management of small, red salmon runs which are taken by set gill nets, drift gill nets and purse seines, FIGURE 1.

Fishing seasons are varied for each fishery and timed to intercept the various stocks. The Coghill - Unakwik district fishery for red salmon is the earliest, beginning in late June and ending about mid-July for drift gill nets. Purse seine fishing in these districts coincides with drift gill net fishing but is extended past the mid-July gill net closing date in order to harvest later runs of pink and chum salmon. Fishing in the Eshamy district is conducted by both drift and set gill nets. The season for this late red salmon run usually begins in early July and extends into September. Purse seines fishing in the Southwestern District in July and August catch about 30 percent of the Eshamy reds before they enter the gill net fishery. The purse seine fishery is conducted in all Prince William Sound districts, except Eshamy. Purse seining usually begins in early or mid-July, (late July in some years), depending upon the strength of early pink salmon runs, and usually extends into the first or second week of August.

For several years the weekly fishing time has been five days per week, 6:00 a.m. Monday until 6:00 a.m. Saturday, but in 1970 the weekly fishing time was changed to 6:00 a.m. Monday until 9:00 p.m. Friday.

A summary of Prince William Sound Fishing seasons from 1952 to 1973 is shown in TABLE 32.

General Districts, Purse Seine Fishery

The general purse seine season was closed in 1972 because of the forecast of a poor returning run of pink salmon. The small returning runs of both pink and chum salmon did not warrant an emergency opening so the season remained closed in 1972.

In 1973 the general purse seine season opened as scheduled on July 23 and produced a catch of both pink and chum salmon above expectations.

Some purse seine fishing was done during the early Coghill - Unakwik red salmon season when 47 units of gear reported catches, but the bulk of the fishing effort took place after the regular purse seine season opened on July 23. During the peak of the season 211 purse seine boats participated in the fishery in all purse seine fishing districts, including the Montague District, which was opened to limited fishing after several years of being closed to fishing.

Salmon runs entering Prince William Sound in 1972 appeared normal with timing and distribution similar to the majority of past years.

TABLE 33, 34 and 35 show a harvest of 1,954,432 pink salmon, 620,374 chums, 9,864 reds, 812 coho and 237 kings. APPENDIX TABLE 10 shows the Prince William Sound salmon catches from inception of the fishery, 1889 to 1973. Presented in graph form in FIGURE 7 is the commercial catches from 1920 to 1973. Case pack data from inception of the fishery is presented in APPENDIX TABLE 11.

Subsistence Fishery

Each year some salmon are taken by permit for subsistence purposes from Prince William Sound. In 1972 no subsistence fishing was done in Prince William Sound. In 1973 a total of 19 permits were issued of which 14 were returned showing a gill net catch of 289 coho, TABLE 28.

1972 Prince William Sound Pink and Chum Salmon Forecast

The returning run of 635,010 pink salmon to Prince William Sound in 1972 was 65 percent below the mean estimate forecast of 1.7 million, and falls within the lower range of the forecast. The error is probably the result of several factors, but the cold late spring was probably the most significant. The chum forecast of 0.8 million is 60 percent above the returning run of 311,580 estimated from aerial and ground spawning stream surveys. Comparable forecast data is shown in TABLE 36.

1973 Prince William Sound Pink and Chum Salmon Forecast

The returning run of 3,306,170 pink salmon in 1973 was 22.4 percent above the mean estimated forecast of 2.7 million, and falls within the upper range of the forecast. The error may be partly caused by unusually late winter conditions which delayed sampling about one month later than usual. The fry migration out of the streams may have been well underway, causing a lower index than actual.

The chum forecast of 643,000 is 50 percent below the returning run of 1,282,850. The chum salmon run for 1973 was expected to be in the upper range of the forecast because production from the parent year (1969) for four year old chums was excellent, and production of pinks from the 1969 brood year was also good. However, the returning run exceeded even the best expectations and went beyond the upper range estimate of 927,000 by approximately 38 percent. The 1973 chum run was the largest since 1962 and 1963 when 1.3 million returned.

TABLE 36 shows comparisons of forecasts since 1962.

Escapement

Weekly aerial spawning escapement counts and periodic ground surveys were made on selected streams to determine the progress of escapements and to provide estimates for calculating season escapements for reds, pinks and chums. Summaries of these live counts for both 1972 and 1973 are shown in TABLES 39 through 46. Surveys were conducted weekly from early July until late September including a total of 199 streams in 1972 and 198 in 1973.

In 1972 the pink salmon escapements were generally poor with approximately one-half the total estimated escapement counted in the Eastern District. A good escapement of chum salmon was estimated in 1972 with fair to excellent distribution through the Sound. Age analysis of chum salmon escapement by stream and sex is presented in TABLE 58 and 59.

Spawning escapements of pink salmon were generally poorly distributed in 1973, and in individual streams ranged from poor to excellent. Approximately 44 percent of the total pink salmon escapement occurred in Coghill River. Fishermen were unable to adequately harvest the Coghill River pink run in spite of the fact that additional fishing area on the west side of Port Wells was allowed plus an increased fishing effort in 1973.

The chum salmon spawning escapement was good and well distributed throughout Prince William Sound and was the largest recorded spawning escapement in the history of the fishery.

Historical spawning escapement counts by species are given in APPENDIX 13. FIGURE 8 graphically shows estimated salmon spawning escapements in Prince William Sound from 1927 to 1973.

TABLE 47 through 57 show red salmon spawning escapement counts from various Prince William Sound stream systems from 1960 to 1973. San Juan Lake is located on the southwest end of Montague Island. The area was uplifted about 31 feet during the 1964 earthquake and the water drained from the lake. Red salmon no longer enter the stream system.

Shrode Creek Weir

In 1972 and 1973 a field crew was stationed at the Shrode Creek fish weir to make counts of fish passage and to make observations of the adequacy of the fish passage facilities.

Daily counts of fish passage were made from July 22 to August 27 in 1972, and from July 16 to August 16 in 1973. Salmon counts in 1972 totaled 205 pink salmon, 4,355 reds and 15 chums. In 1973 a total of 44 pinks and 870 reds were counted. Salmon counts for both years are shown in TABLE 60 by species and day.

TABLE 61 gives the Shrode Creek weir station weather observations for 1972.

Historical spawning escapements and weir counts are shown in APPENDIX TABLE 14.

TABLE 32 Prince William Sound summary of fishing seasons 19[illegible] - 1973.

Year	GENERAL AREAS Opening Date	Closing Date	Season Extensions	Special Closures	Weekly Closures	DISTRICT OPENINGS AND CLOSURES Eshamy Open - Closed	Coghill - Unakwik Open	Closed
1951	0600 7/1	0600 8/1	None	8/1-6	48 hrs.	8/22	None	
1952	0600 8/4	1800 8/30	None	None	48 hrs.	8/22	None	
1953	0600 7/13	1800 8/8	8/5 - 8	None	48 hrs.	8/22	None	
1954	CLOSED				48 hrs.	8/22	None	
1955	CLOSED				48 hrs.	8/22	None	
1956	0600 7/10	0600 8/6	None	None	48 hrs.	8/22	None	
1957	0600 7/10	0600 8/5	None	8/5 - 10	48 hrs.	8/22	None	
1958	0600 7/10	0600 8/6	None 1/	8/6 - 9	48 hrs.	CLOSED	None	
1959	CLOSED					CLOSED	None	
1960	1201 7/11	1800 8/3	None	7/4 - 10 2/	72 hrs.	CLOSED	None	
1961	Eastern	Southeastern 3/				7/1 8/18	6/12	7/14
	0600 8/1	1800 8/14						
	Montague 3/							
	0600 8/8	1800 8/14						
1962	General 4/							
	0600 7/9	2400 8/13			119 hrs. 5/	7/2 8/15	6/18	7/14
1963	0500 7/1	1900 8/19 5/				CLOSED	6/18	7/14
1964	0600 7/13	0600 8/15 5/	8/16 - 21		48 hrs.	CLOSED	6/18	7/14
1965	0600 7/5	1800 8/3 5/	None		48 hrs.	CLOSED 5/	6/21	7/17
1966	0600 7/18	1800 8/12 5/	None		48 hrs.	7/4 8/19	6/20	7/16
1967	0600 7/24	1800 8/4 5/	None		48 hrs.	CLOSED	6/20	7/22
1968	0600 7/11	1800 8/8 5/	5/		5/	CLOSED	6/20	7/16
1969	0600 7/14	1800 8/8	None		48 hrs.	7/7 8/22	6/20	7/12
1970	0600 7/13	2100 8/6	None		57 hrs.	7/7 8/14	6/22	7/17
1971	0600 7/12	1200 8/16	None		57 hrs.	CLOSED	6/21	7/16
1972	CLOSED				57 hrs.	7/5 8/25	6/19	7/19
1973	0600 7/23	2100 8/8	8/3 - 8		57 hrs.	7/2 8/3	6/18	7/20

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/ 14-hour fishing day.
5/ Refer to special regulatory changes by field announcement. For fishing seasons prior to 1951 refer to 1964 Annual Management Report.

TABLE 33. Prince William Sound pink salmon weekly catch, 1973. 1/

Week No. 2/	Total Catch	Total Pounds	Average Wt./Fish	No. Units Gear 4/	Average No. Fish/Boat	No. Fishing Days/Week 3/
25	1	5	5.0	2		5
26	102	434	4.2	5	20.4	5
27	3,182	13,647	4.2	10	318.2	5
28	24,226	101,857	4.2	27	897.2	5
29	141,742	617,354	4.3	129	1,098.7	5
30	922,746	3,623,857	3.9	319	2,892.6	5
31	804,710	3,173,719	3.8	312	2,579.1	5
32	57,723	238,082	4.0	148	390.0	2.37
TOTAL	1,954,432	7,768,955	4.2		1,170.8	37.37

1/ In addition 237 king salmon and 812 coho salmon were taken.

2/ Week 25 through 29 catches from early Coghill - Unakwik season.

3/ Fishing 24 hours per day except Friday when fishing was allowed until 9:00 p.m., and Monday when fishing started at 6:00 a.m.

4/ This includes some duplicates of vessels that fished and delivered in more than one area during some weeks.

TABLE 34. Prince William Sound chum salmon weekly catch, 1973.

Week No. 1/	Total Catch	Total Pounds	Average Wt./Fish	No. Units Gear 2/	Average No. Fish/Boat	No. Fishing Days/Week 3/
25	7	70	10.0	2	3.5	5
26	201	1,659	8.2	5	40.2	5
27	399	4,072	10.2	10	39.9	5
28	5,107	53,128	10.4	27	189.1	5
29	23,741	222,683	9.3	129	181.9	5
30	272,626	2,578,691	9.4	319	854.6	5
31	200,953	1,925,610	9.5	312	644.0	5
32	117,340	1,167,384	9.9	148	792.8	2.37
TOTAL	620,374	5,953,297	9.6		343.2	37.37

1/ Week 25 through 29 catches from early Coghill - Unakwik season.

2/ This includes some duplicates of vessels that fished and delivered in more than one area during some weeks.

3/ Fishing 24 hours per day except Friday when fishing was allowed until 9:00 p.m., and Monday when fishing started at 6:00 a.m.

TABLE 35. Prince William Sound red salmon weekly catch, 1973.

Week No. 1/	Total Catch	Total Pounds	Average Wt./Fish	No. Units Gear 2/	Average No. Fish/Boat	No. Fishing Days/Week 3/
25	13	110	8.4	2	6.5	5
26	417	3,417	8.2	5	83.4	5
27	433	3,589	8.2	10	43.3	5
28	555	4,215	7.6	27	20.5	5
29	2,434	17,914	7.3	129	18.8	5
30	2,636	20,697	7.8	319	8.2	5
31	3,357	26,175	7.8	312	10.7	5
32	19	118	6.2	148		2.37
TOTAL	9,864	76,235	7.6		27.3	37.37

1/ Week 25 through 29 catches from early Coghill - Unakwik season.

2/ This includes some duplicates of vessels that fished and delivered in more than one area during some weeks.

3/ Fishing 24 hours per day except Friday when fishing was allowed until 9:00 p.m., and Monday when fishing started at 6:00 a.m.

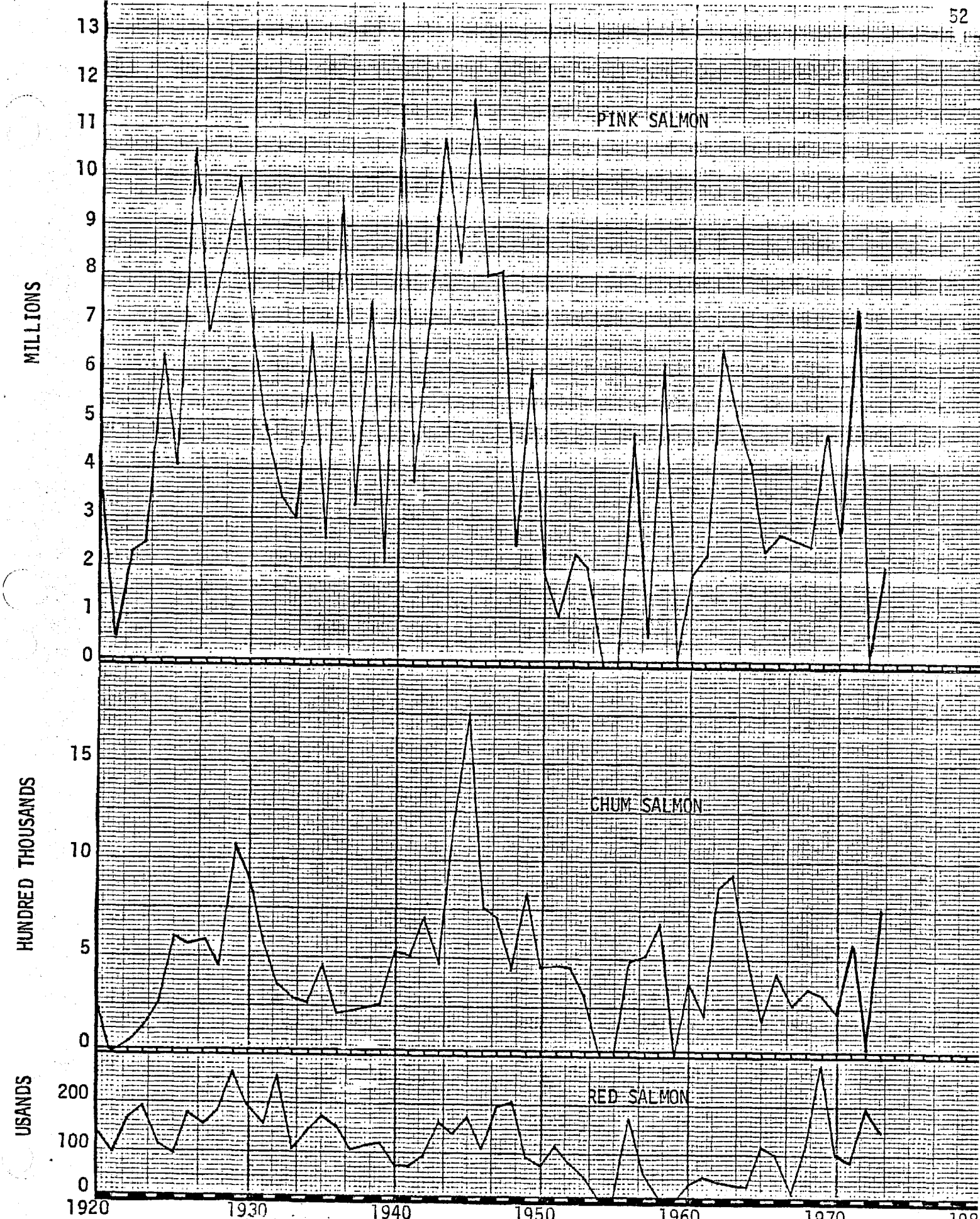

FIGURE 7. Commercial catches of pink, chum and red salmon in Prince William Sound from 1920 to 1973. Catches in years 1921, 1954, 1955, 1959 and 1972 are not indicative of abundance due to restrictions of economic or regulatory nature.

TABLE 36. Comparison of Prince William Sound pink, chum and red salmon run forecasts showing the percent of error, from 1962.

	Pink			Chum			Red		
Year	Mean Forecast	Return	Percent Error	Mean Forecast	Return	Percent Error	Mean Forecast	Return	Percent Error
1962	8.9	8.7	+ 1.1						
1963	5.0 1/	6.6	-21.2						
1964	6.1	6.0	+ 1.1	1.00	0.92	+ 8.8			
1965	4.2	3.4	+19.4	0.73	0.39	+46.6			
1966	6.3	4.0	+36.5	0.58	0.65	-10.7			
1967	3.3	3.8	-13.2	0.44 2/	0.45	- 2.2			
1968	3.1	3.5	-11.4	0.68	0.55	+19.1			
1969	5.8	5.9	- 1.1	0.44	0.48	- 8.3	0.19	0.18	+ 4.12
1970	4.4	3.8	+14.0	0.34	0.33	+ 3.0	0.09	0.04	+56.00 *
1971	6.2	9.5	-34.57	0.76	0.74	+ 2.2			
1972	1.7	0.6	-36.36	0.80	0.31	+38.9			
1973	2.7			0.64					

1/ Weighted fry densities to include upstream production indicated 5.8 million, or an error of -13.2 percent.
2/ Using expanded estimate of 4 year return to total.
* Estimated.

TABLE 37a. Eastern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
5	Koppen Creek	2500	2800	2500	3750	5000	6850		4750			640		17360
6	Sheep River	200	400	500		3000	3000	6000						8070
6	Comfort Creek		0	0	470	600	130	1300	1820			40		2300
8	Beartrap River	250	200	4500	3550		4000		3890					13660
1	Olsen Creek	0	200	1000	1980	9500	4910	4000						10260
2	Control Creek	0	100	200	1510	4500	3280		2600			200		7020
5	St. Matthews Cr.		0	0	1340		2000	2500	3770					5810
76	Irish Creek			200	390	1400	1800	6500	8600					10800
80	Whalen Creek	0	0	0		500	1570	8500	13800			3100		18190
88	Short Creek					0	810		380			30		2250
89	Fish Creek	0	0	0	3280	4800	7230	11000	9020			2700		20810
106	Gladhough Cr.			50	430	600	1530		1840					3180
115	Millard Creek	0	800	2000	10540	15000	28500	35000	46500					45830 4/
116	Duck River	0	0	200	640	800	8090	20000	75500					72090
117	Indian Creek	1000	2000	3000	12020	15000	13310	10000	10430					30600
121	Levshakoff Cr.	0	50	150	1500	1400	2590	700	1600					3800
123	Gregorieff Cr.	0	0	200	1430	1200	2860		1340					4150
127	Naomoff River		0	500		3000	5000	2000						5480
129	Vlasoff Creek		0	50		1400	2100	1000						2480
153	Stellar Creek	0	50	500	6190		8570		3650					14350
Other Streams 2/		50	130	620	2930	5560	8440	10490	11950	6350	2770	1040	720	32360
DISTRICT TOTALS 3/ (54 Streams)		4000	6760	16170	55380	85810	117040	152550	207940	113840	59460	28960	14470	330850

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

TABLE 37b. Northern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals	
224	Backyard Creek				0	500	2000		3280					4600	
229	Cedar Creek				0	200	2630		6920					8420	
233									3000					3280	
234	Wells River	0	0	500	100	1000	3430		16400					19090	
241	Cannery Creek	0	0	0	340	2500	7540		12400			1450		11230	4/
259	Jonah Creek		0	500	1800	6000	4430		3850					6100	4/
264	Siwash River		0	400	1150	4000	7880		4640			0		11120	
265	Unakwik Creek			50	360	600	3920		7540			0		9540	
276	Black Bear Cr.			0	20		660		9160			0		8660	
Other streams 2/		0	0	0	760	640	710	3980	9190	4590	2290	660	330	6730	
DISTRICT TOTALS 3/ (21 streams)		0	0	1450	4530	15850	33950	55560	76380	38230	19780	6200	3110	88770	

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

TABLE 37c. Coghill District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
303	Triple Creek		0	200	1130	1600	1820		540					2790
322	Coghill River and Lake	0	0	0		3000	12000		3500					7770 4/
Other Streams 2/			0	0	320	300	430	620	810	410	200	100	50	1200
DISTRICT TOTALS 3/ (5 Streams)		0	50	1680	4620	4890	11010	8690	6350	3150	1600	880	430	11850

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

TABLE 37d. Northwestern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972 1/

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
430	Meacham Creek		0	150	120	150	2610		1020					2760
432	Swanson Creek		0	500	1120	1200	4810		1880					5870
435	Logging Camp Cr.			0	150	200	1330		2110					2990
476	Shrode Creek													4710*
479	Culross Creek		0	0	40	600	630		3230					3780
480	Mink Creek			150	700		3690		4600					7360
484	East Finger Cr.			50	70	650	2150		3320					4630
485	West Finger Cr.			250	0	1500	5280		3110					7090
498	McClure Creek		0	0	0		570		2320					3100
495	Chimevisky Lagoon			0	0	0	460		3400					3560
Other streams 2/			50	1060	3430	3940	3610	3370	3060	1510	790	380	190	8570
DISTRICT TOTALS 3/ (24 streams)			50	2160	5630	10130	25140	26620	28050	14500	7270	3110	1550	54420

1/ Ground counts underlined.
2/ From records maintained on small streams which had a total of less than 2,000.
3/ Contains interpreted data where surveys lacking on certain weeks.
4/ Stream life factor 4.0 weeks, others calculated from stream life factor of 2.5 weeks.
5/ Stream numbering revised in 1962.
* From weir count and count below weir by weir operator.

TABLE 37e. Eshamy District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972 1/

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
Other Streams 2/					0	90	130	410	620	440	230	110	50	1510
DISTRICT TOTALS 3/ (4 Streams)					0	90	130	410	620	440	230	110	50	1510

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

TABLE 37f. Southwestern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
603	Ewan Creek			1000		800	3500		10000					12950
608	Jackpot River			200		500	3000							5150
655	Johnson Creek			0		100	450		2500					2760
Other streams 2/				170	540	1190	3120	4020	4620	2380	1200	580	280	7240
DISTRICT TOTALS 3/ (25 Streams)				1370	1840	2590	10070	15250	20120	10130	5070	2520	1290	28100

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

TABLE 37g. Montague District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
739	Swamp Creek					0	640		4300	1930				4410
746	Shuman Creek			0		0	1020		2500	350		0		2320
747	Cabin Creek			0		0	500		5600	5150		0		6750
758	Head Rocky Bay					0	20		2500	780				2090
759	Rocky Creek					0	1480		3000	2920				4880
Other streams 2/				0	0	10	2920	4860	6590	4130	2100	250	130	8410
DISTRICT TOTALS 3/ (34 streams)				0	0	10	6580	15640	24490	15260	7680	1650	830	28860

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

TABLE 37h. Southeastern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1972

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
812	Nuchek Creek			250		450	2200	3360		1980		0		4950
815	Constantine Cr.					1500		1110		3050		0		4720
828	Cook Creek						500	1570		2920		0		3830
834	Hardy Creek						5200			2100				6880
835	Scott Creek						2600			2800				5680
837	Davis Bay			0		100	1100			2300				2860
844	Makaka Creek							2890		2210				4680
847	Hawkins Creek						2100	4380		1320		0		5180
850	Canoe Creek						1100	2880		1700				3910
851	Zillesenoff Cr.						1500	4320		4290				7080
856	Cedar Bay						250	2000		1120				2280
857	Cedar Bay						600	2180		2430				3680
861	Bernard Creek					800	1200	3520		5190		40		7220
863	Orca Creek							960		1850				2390
Other streams 2/			0	0	730	570	3030	4040	5150	6110	3130	0		8460
DISTRICT TOTALS 3/ (32 streams)			320	630	5740	11420	23410	39710	40500	41370	21360	40		73800

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

TABLE 38. Recapitulation of weekly pink salmon counts by districts, (live counts in streams), 1972 1/.

No. of Streams	District	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
54	EASTERN	4000	6760	16170	55380	85810	117040	152550	207940	113840	59460	28960	14470	330850
21	NORTHERN	0	0	1450	4530	15850	33950	55560	76380	38230	19780	6200	3110	88770
5	COGHILL	0	50	1680	4620	4890	11010	8690	6350	3150	1600	880	430	11850
24	NORTHWESTERN		50	2160	5630	10130	25140	26620	28050	14500	7270	3110	1550	54420
4	ESHAMY				0	90	130	410	620	440	230	110	50	1510
25	SOUTHWESTERN			1370	1840	2590	10070	15250	20120	10130	5070	2520	1290	28100
34	MONTAGUE			0	0	10	6580	15640	24490	15260	7680	1650	830	28860
32	SOUTHEASTERN		320	630	5740	11420	23410	39710	40500	41370	21360	40		73800
RINCE WILLIAM SOUND TOTALS		3000		16760		76990		210950		141710		18310		618160
199			4220		38230		140360		232000		72250		9110	

1/ Totals rounded to nearest 10 salmon.

TABLE 39a. Eastern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
11	Humpy Creek			100	650	1400	1400	1840	500	280	50	0	0		2510
35	Koppen Creek			550	930	1000	900	1190	360	2530	5000	2090	0	0	5950
36	Sheep River			150	600	650	650	500	200	2960	10000	3650		100	8410
48	Beartrap River			500	500	700	500	430	2040	1790	500	770	0		3190
51	Olsen Creek		600	1500	1570	8000	4000	11450	10500	7120	3290	1680	40		20030
52	Control Creek			3200	7500	9000	14000	9050	6860	2270	1800	1220	0		22920
54	Carlsen Creek			0	0	300	800	2530	900	550	250	220			2220
56	St. Matthews Cr.			500	1250	1700	1500	4280	2300	1520	1300	1200	0		6320
76	Irish Creek				0	400	3000	6690		8680	2600	250	0		11650
80	Whalen Creek				4800	4800	4800	3930		3910	1400	80			12530
89	Fish Creek				2800	3150	5600	8100	4550	2990	4200	520	0		13600
93	Kirkwood Creek				0	0	800	3610	1200	750	600	60	0		2810
106	Gladhough Cr.					1200	750	970		620	300	100	0		2140
116	Duck River				800	4480	5400	900	6000	3200	5000	9850	3000	0	15650
117	Indian Creek			1200	2800	3200	3800	16600	2000	960	500	280	20	0	12780
121	Levshakoff Cr.			770	3290	5250	4550	5620		2540	700	210	30		10960
123	Gregorieff Cr.			1200	3360	3920	3840	4450		840	800	810	0		8910
127	Naomoff River				2200	5300	5000		400		0		0		6680
129	Vlasoff Creek				1500	1300	2000				400		200		4300
133	Sawmill Creek				1900	2500		580	270						3360
137	Lowe River				4300	6950									8000
143	Siwash Creek				25000	26000	14790		10						34080
153	Stellar Creek			2240	5250	5400	10850	10360			3000	2120	0		23340
Other streams 2/				500	2470	9830	8450	9310	8160	9140	6580	1970	900	670	22510
DISTRICT TOTALS 3/ (53 streams)		1210	8120	33660	74070	106430	102380	115840	79550	60240	48340	27380	5690	910	264850

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

TABLE 39b. Northern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculat Season Totals
224	Backyard Creek				0	0	5000			4160	1200	250	0		8240
234	Wells River			430	5600	5500	6000	10780	3000		200	0	0		13320
241	Cannery Creek				0	0	700	7790		6310	3500	590	0		6480
259	Jonah Creek				0	600	800	8840		10180	5000	1700	0		9120
Other streams 2/				100	300	630	1760	5360	6520	2960	490	70	130	70	7320
DISTRICT TOTALS 3/ (20 streams)			200	530	5900	6730	14260	37770	30880	25210	10390	2610	130	70	44480

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

TABLE 39c. Coghill District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
	Coghill River			7100	104000	340000	374000	351000	500000		120000		2000		543150
Other streams 2/								140	150	100					150
DISTRICT TOTALS 3/ (5 streams)			3500		104000		374000		500150		120000		2000		
				7100		340000		351140		310100		61000			543300

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

TABLE 39d. Northwestern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculate Season Totals
430	Meacham Creek				0	0	400	1000	2850	2490	1000	260	70		3230
432	Swanson Creek				0	0	5000	4760	8000		8000	1020	250		14010
Other streams 2/					0	0	40	1680	1790	2340	930	20	0		2960
DISTRICT TOTALS 3/ (24 streams)					0	0	5440	7440	12640	12830	9930	1300	330		20200

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

TABLE 39e. Eshamy District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
Other streams 2/						20	90	700	2150	5900	3350	1030	240	0	5390
DISTRICT TOTALS 3/ (5 streams)						20	90	700	2150	5900	3350	1030	240	0	5390

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

TABLE 39f. Southwestern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/

Stream No. 5/	Stream or Bay	Week Ending 7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
603	Ewan Creek		0	100		3000	11000	15000		0		15720
608	Jackpot River	0	0	3500		4000	5000			0		9600
621	Totemoff Cr.		0	400		1460		2590		0		3390
665	Bjorn Creek			0		100	500	3170		160		2290
666	O'Brien Creek		0	900		2710		5130		270		6520
670	Montgomery Cr.			1700		4410		2190		10		6300
673	Falls Creek			800		4100		2690		10		5920
677	Hayden Creek		0	700		2040		1300		0		2960
Other streams 2/		0	0	250	1260	2200	4780	7350	3770	250	90	7940
DISTRICT TOTALS 3/ (27 streams)		0	1250	8350	15380	24020	34780	44420	22500	600	310	60640

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

TABLE 39g. Montague District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
707	MacLeod Creek						300			2000			750		3390
711	Quadra Creek						150		1800	3000			430		3690
717	Glacier Bay						0			2000			10		2000
739	Swamp Creek						2000		3990	3200	2770		400		7260
740	Kelez Creek						200		1180	1500	1680		200		2600
744	Wilby Creek					0	0		1550	1500	2150		90		2900
747	Cabin Creek				0	0	400		5570	7300	7180		280		10950
748	Gilmore Creek				0		200		1980	800	1470		20		2530
749	Shad Creek				0		3500		5270	2600	3190		100		8900
752	Stockdale Cr.						3500		7000	3700			10		10860
758	Head Rocky Bay						500		3260		2420		230		5070
759	Rocky Creek						0		12760		22970		220		28780
788	Green Creek						0	1000		2500			0		5100
Other streams 2/					0	0	10	2730	5560	6760	8460	5070	1490	710	12310
DISTRICT TOTALS 3/ (34 streams)					0	5180	10760	31360	53670	57660	65940	35030	4230	2080	106340

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

TABLE 39h. Southeastern District, Prince William Sound, pink salmon spawning escapements, (live counts in streams), 1973 1/

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculate Season Totals
812	Nuchek Creek				300	2100	29000	50000	45360	19000	19830		900		71000
815	Constantine Cr.				300	500	500	620	2520		2790		50		4750
817	Deer Creek				0	50	900	700		700			350		2270
818	Juania Creek				0	50	50	300		1500			80		2970
821	Brown Bear Cr.				0	0	0	0		1700			430		3400
827	Captain Creek				0	10	1300	1800	3230	4100	3030		20		6010
828	Cook Creek				0	0	0	0	1780	2100	3230		330		3750
829	King Creek				0	0	200	600	1680	750	1370		0		2110
831	Double Creek				0	160	1800	3800	5000	3600	1910		100		6970
834	Hardy Creek				0	1500	3000	7500	12500	2700			30		11740
835	Scott Creek				300	1700	4600	7000	8800	3800			230		11870
836	Dan's Creek				0		1800	2500	3800	900					4340
837	Dan's Bay				0	100	2900	9600	2800	2900			250		8410
844	Makaka Creek				0	50	1200	2500	12800	5800	4010		0		11340
847	Hawkins Creek				0	100	900	2500	5250	4500	2910		0		7060
850	Canoe Creek				0	780	540	700	3080	1700	1460		10		3600
851	Zillesenoff Cr.				0	0	0	500	3840	3500	2160		0		4410
857	Cedar Bay				0	40	550	600	2110		1270		0		2920
861	Bernard Creek				0	50	800	2800	5000	3600	3150		10		6600
Other streams 2/						20	710	1120	6160	6600	4590	2440	270	140	8820
DISTRICT TOTALS 3/ (30 streams)				450	900	8110	50750	95140	128160	74550	64700	33240	3200	1660	184340

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

TABLE 40. Recapitulation of weekly pink salmon counts by district (live counts in streams), 1973 1/.

No. of Streams	District	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Total
53	EASTERN	1210	8120	33660	74070	106430	102380	115840	79550	60240	48340	27380	5690	910	264850
20	NORTHERN	0	200	530	5900	6730	14260	37770	30880	25210	10390	2610	130	70	44840
5	COGHILL	0	3500	7100	104000	340000	374000	351140	500150	310100	120000	61000	2000	0	543300
24	NORTHWESTERN	0	0	0	0	0	5440	7440	12640	12830	9930	1300	330	0	20200
5	ESHAMY	0	0	0	0	20	900	700	2150	5900	3350	1030	240	0	5390
27	SOUTHWESTERN	0	0	0	0	1250	8350	15380	24020	34780	44420	22500	600	310	60640
34	MONTAGUE	0	0	0	0	5180	10760	31360	53670	57660	65940	35030	4230	2080	106340
30	SOUTHEASTERN	0	0	450	900	8110	50750	95140	128160	74550	64700	33240	3200	1660	184340
PRINCE WILLIAM SOUND TOTALS		1210	11820	41740	184870	467720	566840	654770	831220	581270	367070	184090	16420	5030	1229900
198															

1/ Number of salmon rounded to nearest 10.

TABLE 41a. Eastern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
35	Koppen Creek	1000	4500	8900	5100	10000	6350		330	1000		30		16440
36	Sheep River	0	50	300		500				1000				2000
48	Bear Trap River	250	2000	4000	6070	4000	6000		7120	10000				20400
51	Olsen Creek	250	1500	3500	7460	4000	8300			7000		50		17520
52	Control Creek	50	1000	1200	1150	1000	860		140	200		0		2480
87	Sunny River					0	0		50	1650		1600		2300
99	Lagoon Creek	0	100	200	430	250	680		440	1200		1540		3020
116	Duck River	0	100	700	0	400	1700		8000	10000				12300
117	Indian Creek	700	5000	6000	7740	8000	2140		570	2000				13800
127	Naomoff River		400	2400						12000				17560
129	Vlasoff Creek		30	150		200				4000				5020
133	Sawmill Creek			250		500								2480
153	Stellar Creek	30	350	1400	2410		4930	6000	1800					8490
Other streams 2/		130	1130	3180	3750	3720	3290	4440	3080	2650	920	420	190	10970
DISTRICT TOTALS 3/ (29 streams)		2410	16290	32180	37570	37670	39880	43890	41660	54400	28950	3760	1820	134780

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

TABLE 41b. Northern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
214	Long Creek			1000	1320	3000	1770		5000					8390
217	Spring Stream				1060	800	950		440					2080
229	Cedar Creek			200	390	1500	3550		400					3410
234	Wells River	200	2700	7500	16600	20000	28300		3200					38980
258	Jonah Creek		0	0	200	4000	7350		5200					11290
264	Siwash River		0	0	0	250	560		1600			0		2040
276	Black Bear Cr.			50	320	200	1610		2960			0		4170
279	Canyon Creek			0		0			3200					3850
Other streams 2/		0	30	70	180	550	1230	2510	3770	2520	1200	0		4820
DISTRICT TOTALS 3/ (12 streams)		200	3630	9350	20070	30300	46390	36120	25770	17190	8540	0		79030

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

TABLE 41c. Coghill District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
322	Coghill River	0	0	2500		6000			3500					11700
Other streams 2/		0	0	0		0			0					0
DISTRICT TOTALS (3 streams)		0	0	2500	4250	6000	5170	4330	3500	2330	1170	0		11700

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

TABLE 41d. Northwestern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
421	Mill Creek		0	0	140	1000	4220		2200					5180
432	Swanson Creek		0	100	1170	1000	3140		3240					6030
454	Halferty Creek			150	1810	1500	2340		960					3780
455	Paulson Creek			1100	2040	2000	2610		400					4240
476	Shrode Creek		0	0		500								2500
479	Culross Creek		0	0	0	200	40		2210					2320
495	Chimevisky Lagoon			200		200	3600		4050					6490
Other Streams 2/			200	480	1220	2420	4880	4250	3570	2390	1190	0		8280
DISTRICT TOTALS 3/ (18 streams)			930	2030	6830	8820	21830	20260	18130	12100	6040	0		38820

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

TABLE 41e. Southwestern - Eshamy Districts, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
613	Jackson Creek			800	1520	1200	1760		50					2510
Other streams 2/				50	70	130	60	160	240	100	60			340
DISTRICT TOTALS 3/ (6 streams)				850	1590	1330	1820	1070	290	130	60			2850

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

TABLE 41f. Montague District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
741	Chalmers River			0		50	200		2600					2740
746	Schuman Creek			0		0	870		1630			0		2150
Other streams 2/				0	0	50	0	150	280	170	90	0		300
DISTRICT TOTALS 3/ (12 streams)				0	0	100	1070	2800	4510	2990	1500	0		5190

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

TABLE 41g. Southeastern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1972 1/.

Stream No. 5/	Stream or Bay	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Totals
815	Constantine Creek					7000		9400		9730		420		21940
828	Cook Creek					1400		2240		1320		0		3970
Other streams 2/					160	300	1000	1380	1790	2460	1280	90	50	3400
DISTRICT TOTALS 3/ (11 streams)				1750	4360	8700	11020	13020	13140	13510	7030	510	260	29310

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

TABLE 42. Recapitulation of weekly chum salmon counts by districts, (live counts in streams), 1972 1/.

No. of Streams	District	Week Ending 7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Calculated Season Total
29	EASTERN	2410	16290	32180	37570	37670	39880	43890	41660	54400	28950	3760	1820	134780
2	NORTHERN	200	3630	9350	20070	30300	46390	36120	25770	17190	8540	0		79030
3	COGHILL	0	0	2500	4250	6000	5170	4330	3500	2330	1170	0		11700
18	NORTHWESTERN		930	2030	6830	8820	21830	20260	18130	12100	6040	0		38820
6	SOUTHWESTERN-ESHAMY			850	1590	1330	1820	1070	290	130	60			2850
12	MONTAGUE			0	0	100	1070	2800	4510	2990	1500	0		5190
11	SOUTHEASTERN			1750	4360	8700	11020	13020	13140	13510	7030	510	260	29310
PRINCE WILLIAM SOUND TOTALS		2610	20850	48660	74670	92920	127180	121490	107000	102650	53290	4270	2080	301680
91														

1/ Number of salmon rounded to nearest 10.

TABLE 43a. Eastern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculate Season Totals
23	Chase River				810	1000	1330	2230	3220	1770	150	200			4620
35	Koppen Creek			10450	17670	18000	17100	5770	6940	4570	5200	180		250	37080
36	Sheep River			0	0	0	600	2400	2800	6140	11000	7690		600	13890
48	Beartrap River			1900	5500	5500	5500	4890	8160	8130	5500	3260			20810
51	Olsen Creek		850	2090	3750	4500	14000	10920	1500	4430	2890	740	50		18470
80	Whalen Creek				1200	1200	1200	520	300	0	0	0			2130
83	Keta Creek						20	20	200	30	2100	1170		2500	3220
87	Sunny River						100		100		11000	19910		43000	45900
89	Fish Creek				1200	1350	2400	750	1950	250		170			3720
99	Lagoon Creek			0	400	700	500	390	420	500	800	1620			2620
116	Duck River				1200	6720	8100	12800	9000	13000	20000	1740		600	29960
117	Indian Creek			3840	11200	12800	15200	4700	8000	280		10		0	23550
121	Levshakoff Cr.			330	1410	2250	1950	900		320	100	30			3260
127	Naomoff River				1100	4000	3000		11300		14000				26520
129	Vlasoff Creek				0	200	500		3400		3000				5940
131	Gorge Creek				2000	1200		250							2460
153	Stellar Creek			960	2250	6600	4650	2680				2080			11380
Other streams 2/		160	380	990	2290	3770	3240	2450	3240	3250	3390	2720	2000	1050	11580
DISTRICT TOTALS 3/ (30 streams)		4630	10210	24310	51980	69850	80110	60920	63850	72030	81520	50030	46660	51930	267210

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

TABLE 43b. Northern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
214	Long Creek				2000	3100	3300	2100			3800	740			9240
216	Vanishing Cr.				300	470	700	600			3600	880			4420
229	Cedar Creek			50	100	1600	2850	4050	4000	530		10			5380
234	Wells River			12600	50400	49500	54000	22690	27000		1600	300			95450
258	Jonah Creek				0	50	50	1320	840	8340	6000	1090			7400
264	Siwash River				0	30	100	460	1200	4590	4300	1300			5180
276	Black Bear Cr.				0	400	1000	2250	2930	2450	1400	0			4170
279	Canyon Creek				0	0	1000		3500		5500				8660
Other streams 2/			0	10	30	50	750	1290	2290	2880	1150	110	60	30	3520
DISTRICT TOTALS 3/ (12 streams)		6880	13810		52830	55200	63750	37010	45960	42690	27610	7230	3610	1800	143420

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

TABLE 43c. Coghill District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculate Season Totals
322	Coghill River		500	3500	20000	25000	30000			30000					73600
Other streams 2/			0	0	0	0	0	0	0	0	0	0	0		NONE
DISTRICT TOTALS 3/ (3 streams)			0	500	3500	20000	25000	30000	30000	30000	30000	15000	0		73600

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

TABLE 43d. Northwestern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1973 1/

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculate Season Totals
421	Mill Creek				0	50	20	580		1580	2000	430			2420
495	Chimevisky Cr.				50	200	2500	640	3000	570		490			3350
Other streams 2/				110	370	1380	2950	5730	5020	4700	3450	1320	680	340	10420
DISTRICT TOTALS 3/ (18 streams)				140	420	1630	5470	6950	9100	6850	5980	2240	1140	560	16190

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

TABLE 43e. Southwestern-Eshamy, Prince William Sound, chum salmon spawning escapements (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
Other streams 2/				0	120	370	640	1010	480	110	60	0			1130
DISTRICT TOTALS (9 streams)				0	120	370	640	1010	480	110	60	0			1130

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

TABLE 43f. Montague District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
Other streams 2/					0	0	120	580	1270	1720	2100	1170	240	120	2930
DISTRICT TOTALS 3/ (12 streams)					0	0	120	580	1270	1720	2100	1170	240	120	2930

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

TABLE 43g. Southeastern District, Prince William Sound, chum salmon spawning escapements, (live counts in streams), 1973 1/.

Stream No. 5/	Stream or Bay	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Totals
815	Constantine Cr.				300	2500	5000	11880	8730		9470		3000		27160
821	Brown Bear Cr.				600	700	1200	1700		200					2250
828	Cook Creek				900	4500	5500	7000	3410	1200	60				9220
Other streams 2/				0	0	620	1360	1450	1350	1110	1210	860	500	250	3480
DISTRICT TOTALS 3/ (11 streams)				900	1800	8320	13060	22030	14240	11590	10840	9740	8520	4260	42110

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

TABLE 44. Recapitulation of weekly chum salmon escapement counts by district, (live counts in streams), 1973 1/.

No. of Streams	District	Week Ending 6/30	7/7	7/14	7/21	7/28	8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	Calculated Season Total
30	EASTERN	4630	10210	24310	51980	69850	80110	60920	63850	72030	81520	50030	46660	51930	267210
12	NORTHERN		6880	13810	52830	55200	63750	37010	45960	42690	27610	7230	3610	1800	143420
21	NORTHWESTERN-COGHILL			640	3920	21630	30470	36950	39100	36850	35980	17240	1140	560	89790
9	SOUTHWESTERN-ESHAMY					120	370	640	1010	480	110	60	0	0	1130
12	MONTAGUE						120	580	1270	1720	2100	1170	240	120	2930
11	SOUTHEASTERN			900	1800	8320	13060	22030	14240	11590	10840	9740	8520	4260	42110
PRINCE WILLIAM SOUND TOTAL		4630	17090	39660	110530	155120	187880	158130	165430	165360	158160	85470	60170	58680	546590
95															

1/ Totals rounded to nearest 10 salmon.

TABLE 45. Prince William Sound pink, chum and red salmon total estimated spawning escapement by district, 1972. 1/

District	Number of Streams Surveyed	Pinks	Chums	Reds
Eastern	54	330,850	134,780	5,000
Northern-Unakwik	21	88,770	79,030	200
Northwestern-Coghill	29	66,270	50,520	55,800
Southwestern-Eshamy	29	29,610	2,850	35,670
Montague	34	28,860	5,190	0
Southeastern	32	73,800	29,310	0
TOTAL	199	618,160	301,680	96,670

1/ Number of salmon rounded to nearest 10.

TABLE 46. Prince William Sound pink, chum and red salmon total estimated spawning escapement by district, 1973. 1/

District	Number of Streams Surveyed	Pinks	Chums	Reds
Eastern	53	264,850	267,210	1,700
Northern-Unakwik	20	44,840	143,420	450
Northwestern-Coghill	29	563,500	89,790	58,300
Southwestern-Eshamy	32	66,030	1,130	13,700
Montague	34	106,340	2,930	0
Southeastern	30	184,340	42,110	0
TOTAL	198	1,229,900	546,590	73,520

1/ Number of salmon rounded to nearest 10.

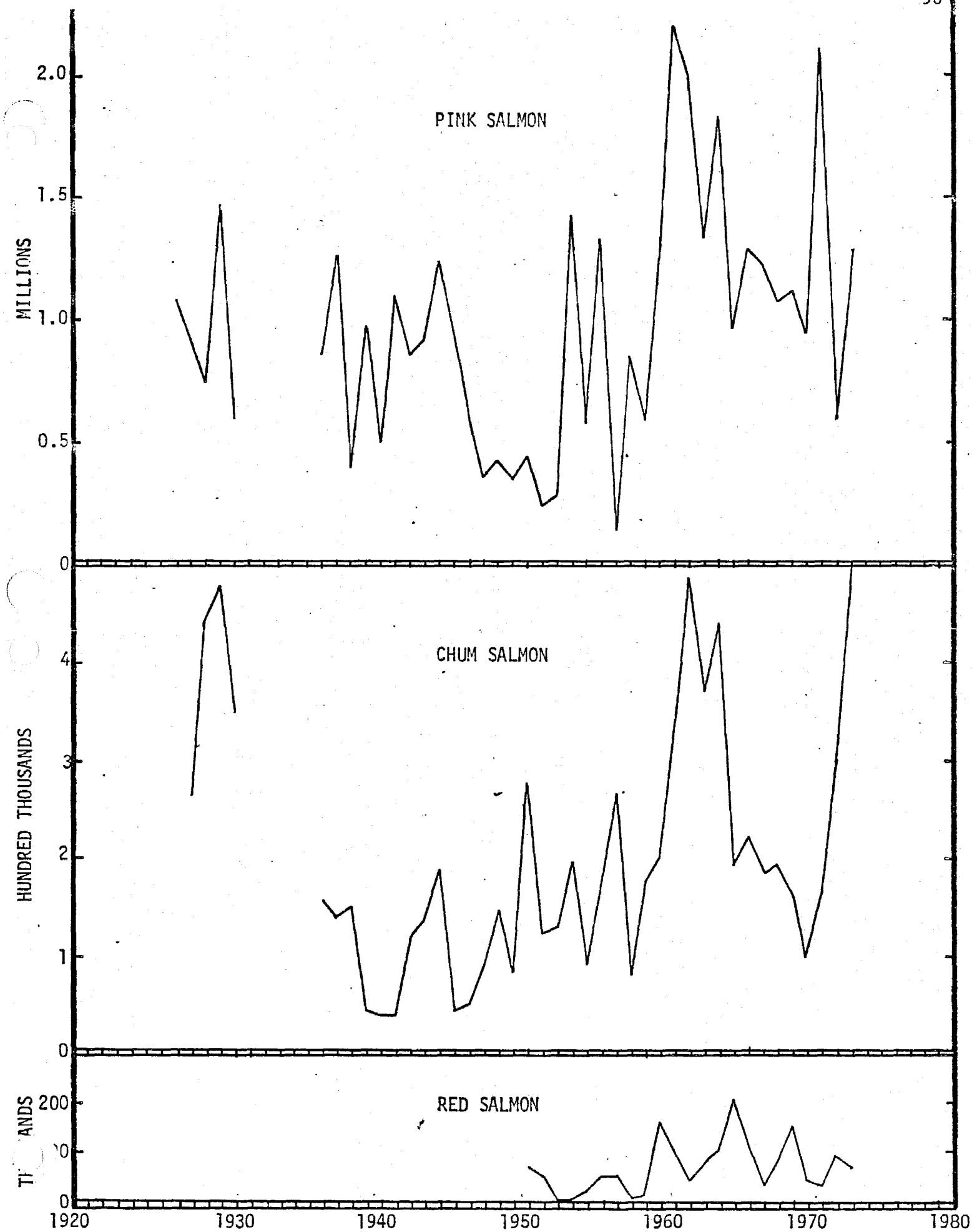

FIGURE 8. Annual estimated salmon spawning escapement in Prince William Sound, 1927 - 1973.

TABLE 47. San Juan Bay Lake (Stream #700), red salmon spawning escapements, 1961 - 1966, (aerial counts of live fish).

Date of Survey	1961	1964	1966
7/29	500+		
8/6		1500+	
8/27			10

TABLE 48. Esther Passage Lake (Stream #300), red salmon spawning escapement, 1962, 1963, 1973 (aerial counts of live fish).

Date of Survey	1962	1963	1973
6/18		500	
7/11	0		
7/18			1800
7/26		100	
8/4		0	

TABLE 49. Cowpen Lake, red salmon spawning escapements, 1960 - 1973, (aerial counts of live fish).

Date of Survey	1960	1961	1962	1963	1966	1973
7/6					2000	
7/7	50					
7/24						400
7/26			100			
8/12				50		
8/16		100				
8/31			300			

TABLE 50. Boswell Bay Lake, (Stream #) red salmon spawning escapement, 1973 (ground count of dead fish).

Date of Survey	1973
8/20	400

TABLE 51. Coghill Lake, red salmon spawning escapements, 1960-1973, (aerial counts of live fish).

Week Ending	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973
6/23				2080			0						
6/30	6500	300		15200									
7/7			300					700					
7/14	8000												
7/14	15000	10000+		16000			85000			1000		10000	27600
7/21	50000									58000	35200		26000
7/28			1000	90000	22200	85000					36500	20700	31000
8/4				40000					11800	72000			14000
8/11			1700		13800			33000					55000
8/18				17400									
8/25				18950						9100			
9/1			9500										
9/8													
9/15				3030									1650+

TABLE 52. Jackpot Lakes, red salmon spawning escapements, 1960-1973, (aerial counts of live fish).

Week Ending	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973
6/23				0									
6/30	500			50									
7/7			0										
7/14								700					
7/21	2500					0					300	0	0
7/28			500	800	5500					1000			
8/4		2900										5500	2900
8/11													
8/18		1800				2000							
8/25													
9/1													300+
9/8													
9/15													

TABLE 53. Billy's Hole Lake, red salmon spawning escapements, 1960-1973, (aerial counts of live fish).

Week Ending	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973
6/23													
6/30		200											
7/7								0					
7/14	220	3050		300		1000	1500			200			
7/21										300			50
7/28		3000	800	200				500	400		0		
8/4			1000		1100				300			0	
8/11			600									0	
8/18		1000		700	2400								
8/25			25										
9/1			500		700								
9/8													
9/15													

TABLE 54. Bainbridge Lake, red salmon spawning escapements, 1960-1973, (aerial counts of live fish).

Week Ending	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1973
6/23													
6/30				300									
7/7							1000						
7/14						0		0					
7/21	300		80			100							0
7/28				300	850			100		300	600	0	150
8/4	400	1900		25		300	100				500	100	600
8/11			900	450	1325					500		200	
8/18		2000	300		800	500							
8/25									300				
9/1													
9/8			500										
9/15													

TABLE 55. Shrode Lake, red salmon spawning escapements, 1962 - 1973, (aerial counts of live fish).

Week Ending	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	197
6/23											
6/30											
7/7	1000										
7/14						4000				50	
7/21		300		0	190				200		150
7/28		500	500	50						100	100
8/4		1500						3900		50	
8/11	1400				1500						
8/18			8000								
8/25											
9/1											
9/8											
9/15	140										

TABLE 56. Robe Lake, red salmon spawning escapements, 1961 - 1973, (aerial counts of live fish).

Week Ending	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1973
6/23											
6/30											
7/7		2000									
7/14	500		500				9000				
7/21				4000	7500				5000	500	1700
7/28	800	2100	980	1500				3800			
8/4		1200					500				
8/11		1550									
8/18		460	100								
8/25											
9/1	1700										
9/8											
9/15											

TABLE 57. Miners Lake, red salmon spawning escapements, 1961 - 1965, (aerial counts of live fish).

Date of Survey	1961	1962	1963	1964	1965
6/29			250		
7/8					0
7/25				50	
7/26	500				
7/27			500		
8/12			4800		
8/14				3800	
8/25		300			
8/31		1600			

TABLE 58. Age analysis of chum salmon escapement by stream, Prince William Sound, 1972.

Stream	AGE CLASS 3 No.	3 %	4 No.	4 %	5 No.	5 %	6 No.	6 %
2			2	40	3	60		
35	2	1	72	39	111	60	1	0.5
52			10	27	27	73		
87	1	3	22	58	15	39		
89	10	53	4	21	5	26		
99	5	14	15	42	16	44		
116	8	12	56	84	3	4		
117	5	3	124	79	28	18		
121			15	38	25	62		
153			60	91	6	9		
217			17	23	55	76	1	1.0
221	2	5	1	3	37	92		
229	17	16	36	34	54	50		
234	5	2	179	68	88	30		
276	30	22	61	45	44	33		
282	16	46	13	37	6	17		
414			26	72	10	28		
421			16	41	22	56	1	3.0
450			15	45	18	55		
455	4	6	18	26	48	68		
495	1	1	39	35	71	64		
613	2	3	11	16	54	81		
746			7	21	26	79		
815	2	3	42	57	29	40		
TOTAL	110	6.2	861	48.5	801	45.1	3	0.2

N = 1,775

TABLE 59. Age analysis of chum salmon escapement by sex, Prince William Sound, 1972.

Age	Males No.	Males %	Age	Females No.	Females %
3	59	6.5	3	51	5.9
4	426	47.1	4	435	49.9
5	418	46.2	5	383	44.0
6	1	0.1	6	2	0.2
TOTAL	904			871	

N = 1,775

TABLE 60. Shrode Creek daily weir count, 1972 - 1973.

Salmon Count - 1972 1/				Salmon Count - 1973 2/		
Date	Pink	Red	Chum	Date	Pink	Red
7/22		77		7/16		13
7/23		88		7/17		1
7/24	5	148		7/18		13
7/25		142		7/19		8
7/26		83		7/20		85
7/27		27		7/21		11
7/28		191		7/22		2
7/29	8	943	1	7/23		149
7/30	1	853		7/24	4	13
7/31	3	464		7/25	3	7
				7/26		5
8/1	2	313	1	7/27		
8/2		327		7/28		
8/3	3	339		7/29		2
8/4		34		7/30		
8/5		7		7/31		
8/6	3	3				
8/7				8/1		30
8/8		27		8/2		10
8/9	12	19	1	8/3		
8/10	2	15		8/4		43
8/11	1	13	1	8/5	5	90
8/12		11		8/6	21	137
8/13		2		8/7	2	28
8/14				8/8		3
8/15				8/9		47
8/16				8/10		26
8/17	3	12		8/11	4	58
8/18	1	2		8/12	5	89
8/19	32	54		8/13		
8/20	10	15		8/14		
8/21	15	24	1	8/15		
8/22	25	15		8/16		
8/23	20	15				
8/24	10	10	3			
8/25	10	5	2			
8/26	10	30	1			
8/27	35	47	4			
TOTAL	205	4,355	15		44	870

1/ Ground counts below the weir produced the following: Pinks 4,502, chums 535. In addition a creel census showed 304 reds, 35 pinks and 60 chums taken by sport fishermen.

2/ A creel census of sport fishermen indicated a red salmon catch in excess of 332.

TABLE 61. Shrode Creek weir station weather data, 1972.

Date	Water Temperature 1/	Air Temperature 1/
7/22	42	75
23	42	78
24	48	72
25	44	60
26	49	70
27	46	56
28	46	52
29	52	68
30	48	62
31	50	60
8/ 1	50	62
2	51	60
3	54	70
4	52	58
5	50	53
6	49	56
7	50	54
8	53	70
9	57	62
10	56	60
11	57	62
12	53	64
13	52	59
14	52	56
15		
16		
17	50	65
18	50	65
19	50	65
20	50	55
21	49	52
22	48	51
23	48	50
24	49	50
25	50	60
26	48	65
27	48	50

1/ Temperatures in degrees Fahrenheit.

ESHAMY DISTRICT

Commercial Fishery - 1972

The Eshamy District was opened as scheduled on July 5 and continued without interruption until closed by emergency order on August 25. Both set and drift gill net fishermen participated in the fishery to harvest 82 kings, 52,888 reds, 1,146 cohos, 45,375 pinks and 26,008 chums, TABLE 62. The catch in 1972 was above average for all species except pink salmon.

Escapement - 1972

The 1972 spawning escapement to Eshamy Lake and River is shown by the daily weir count in TABLE 65. Cumulative weir counts by year are shown in TABLE 67. Counting at the weir began on June 28 and terminated on September 12. The 1972 weir count of 28,683 compares to the average of 38,038 since 1960.

General weather data collected at the station is given in TABLE 68.

Commercial Fishery - 1973

The Eshamy District was opened as scheduled on July 2 and continued until closed by emergency order on August 3. The red salmon run was smaller than expected this year, and it was necessary to close the season earlier than the usual late August closing date. Both set and drift gill net fishermen participated in the fishery to harvest 16,439 reds, 149 cohos, 21,501 pinks and 27,564 chums, TABLE 63.

TABLE 64 shows the Eshamy District salmon catch from 1950 to 1973.

Escapement - 1973

The 1973 spawning escapement is given in TABLE 66 which shows the Eshamy River daily weir count. Cumulative weir counts by year are shown in TABLE 67. Counting at the weir began on June 17 and terminated on September 14 with a total of 10,202 red salmon counted. The 1973 red salmon escapement is the smallest recorded since 1963 when 3,092 reds were recorded at the weir. The average escapement of reds since 1960 is 35,898.

General weather data collected for 1973 is given in TABLE 68.

APPENDIX TABLE 15 and 16 show the salmon catch from 1904 and the weir count from 1931 respectively.

TABLE 62. Eshamy District drift gill net and set net weekly catch, 1972.

Week	Kings	Reds	Cohos	Pinks	Chums	Units of Gear
Drift Gill Net						
28		397		6	8	1
29		555	8	98	319	4
30	7	3,243	146	2,452	3,587	35
31	33	4,009	277	6,642	4,940	40
32	8	6,587	191	10,872	6,346	59
33	1	39	2	235	195	1
34		152		41	258	4
35		135	2	16	10	1
Sub-total	49	15,117	626	20,362	15,663	
Set Gill Net						
28	5	2,940	16	208	377	14
29	5	4,588	30	1,019	1,335	18
30	5	3,720	32	1,984	2,524	19
31	4	4,247	166	5,928	1,736	21
32	11	16,339	193	13,166	3,106	31
33	2	4,639	58	2,127	959	15
34		309		384	82	3
35	1	989	25	197	226	9
Sub-total	33	37,771	520	25,013	10,345	
TOTAL	82	52,888	1,146	45,375	26,008	

TABLE 63. Eshamy District drift gill net and set net weekly catch, 1973.

Week	Kings	Reds	Cohos	Pinks	Chums	Units of Gear
Drift Gill Net						
27	15	2,609	8	290	1,748	17
28	8	2,345	9	748	2,383	29
29	2	763	23	1,145	2,740	11
30	16	954	14	6,436	7,149	42
31		799	13	3,153	2,611	38
32			12	5	1	1
Sub-total	41	7,470	71	11,777	16,632	
Set Gill Net						
27	2	2,013	4	185	869	10
28	10	1,745	44	721	2,053	15
29	14	1,708	22	2,100	3,272	13
30	2	1,591	7	3,383	3,354	15
31		1,912		3,335	1,366	12
Sub-total	28	8,969	78	9,724	10,914	
TOTAL	69	16,439	149	21,501	27,546	

TABLE 64. Eshamy District salmon catch, 1950 - 1973.

Year	Kings	Reds	Pinks	Chums	Cohos	Total
1950		26,772	23,289	3,976	780	54,817
1951		78,360	62,790	9,552	1,580	152,282
1952		43,128	11,025	2,872	720	57,745
1953		15,828	52,815	9,152	1,070	78,865
1954		7,848	15,666	5,560	560	29,634
1955		12,919	26,857	4,806	595	45,177
1956		75,355	32,101	14,439	788	122,683
1957		33,665	22,672	12,183	738	69,258
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		55,133	113,326	22,918	1,324	192,701
1962		23,857	76,345	39,909	3,895	144,006
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		15,456	550	649	71	16,726
1966		20,826	36,584	7,896	745	66,051
1967			S E A S O N C L O S E D			
1968			S E A S O N C L O S E D			
1969	16	61,728	25,273	8,021	46	95,084
1970	2	17,292	44,381	5,632	579	67,886
1971			S E A S O N C L O S E D			
1972	82	52,888	45,375	26,008	1,146	125,499
1973	69	16,439	21,501	27,546	149	65,704
TOTAL	169	557,494	610,550	201,119	14,786	1,384,118
AVERAGE 1/	10	34,843	38,159	12,570	924	86,507

1/ Average of years fished.

TABLE 65. Eshamy River daily weir count, 1972.

Date	Red Salmon Daily Count by Sex			Daily Total	Weekly Total	Cummulative Total
	Male	Female	Jack			
6/28	Weir	Installed				
7/5	1			1		1
7/6	385	509	6	900		901
7/7	886	827	11	1,724		2,625
7/8	103	90	5	198		2,823
7/9	127	84	4	215	3,038	3,038
7/10	207	204	4	415		3,453
7/11	50	38		88		3,541
7/12	23	17	1	41		3,582
7/13	51	37	2	91		3,672
7/14	623	554	14	1,191		4,863
7/15	2	1	1	4		4,867
7/16	225	181	1	407	2,236	5,274
7/17	112	106	2	220		5,494
7/18	141	145	2	288		5,782
7/19	394	310	8	712		6,494
7/20	107	60	3	170		6,664
7/21						6,664
7/22	14	12	2	28		6,692
7/23	5	4	2	11	1,429	6,703
7/24	39	47	1	87		6,790
7/25	47	41		88		6,878
7/26						6,878
7/27						6,878
7/28	2	1		3		6,881
7/29	112	107	3	222		7,103
7/30	15	11		26	426	7,129
7/31						7,129
8/1						7,129
8/2						7,129
8/3	321	227	2	550		7,679
8/4	40	37		77		7,756
8/5	74	100	2	176		7,932
8/6	260	235		495	1,298	8,427
8/7	400	400	2	802		9,229
8/8	389	372		761		9,990
8/9	279	279	2	578		10,568
8/10	285	235		520		11,088
8/11						11,088
8/12						11,088
8/13					2,661	11,088
8/14	1,102	1,072		2,174		13,262
8/15	5,545		25	5,570		18,832

TABLE 65, cont. Eshamy River daily weir count, 1972.

Date	Red Salmon Daily Count by Sex Male	Female	Jack	Daily Total	Weekly Total	Cummulative Total
8/16	2,625			2,625		21,457
8/17	1,213		2	1,215		22,672
8/18	150			150		22,822
8/19	47			47		22,869
8/20	52			52	11,833	22,921
8/21	14			14		22,935
8/22	300			300		23,235
8/23	374			374		23,609
8/24	884			884		24,493
8/25	666			666		25,159
8/26	118			118		25,277
8/27	15	18		33	2,389	25,310
8/28	2	1	1	4		25,314
8/29	18	22		40		25,354
8/30	368	402	2	772		26,126
8/31	261	308	3	572		26,698
9/1	59	64	1	124		26,822
9/2	48	61		109		26,931
9/3	32	46		78	1,699	27,009
9/4	514		3	517		27,526
9/5	114	286	1	401		27,927
9/6	68	71	2	141		28,068
9/7	400		4	404		28,472
9/8						28,472
9/9						28,472*
9/10	4	3		7	1,470	28,479
9/11	14	11		25		28,504
9/12	88	91		179		28,683

Weir removed at 0800*

TOTAL						28,683

* Weir gate found open.

** A total of 35 reds observed below the weir.

TABLE 66. Eshamy River daily weir count, 1973.

Date	Red Salmon Count				Count of Other Species	
	Daily Adult	Daily Jack	Daily Total	Cummulative Total	Coho	Pink
6/17	Weir Installed					
7/2	16		16	16		
7/3				16		
7/4				16		
7/5				16		
7/6	4		4	20		
7/7				20		
7/8	1		1	21		
7/9				21		
7/10	1		1	22		
7/11				22		
7/12	2		2	24		
7/13	16	3	19	43		
7/14				43		
7/15				43		
7/16				43		
7/17				43		
7/18	6		6	49		
7/19	10		10	59		
7/20	8		8	67		
7/21				67		
7/22				67		
7/23	2		2	69		
7/24	1		1	70		
7/25	5		5	75		4
7/26	4		4	79		
7/27	30		30	109		6
7/28	59	3	62	171		6
7/29				171		
7/30	4		4	175		4
7/31	57	1	58	233		3
8/1	70		70	303		2
8/2	3		3	306		
8/3				306		
8/4	60		60	366		
8/5	2		2	368		
8/6	35	2	37	405		1
8/7	264	5	269	674		1
8/8	40	1	41	715		
8/9	12	1	13	728		4
8/10	76	3	79	807		
8/11				807		
8/12	106	4	110	917		11

TABLE 66, cont. Eshamy River daily weir count, 1973.

Date	Red Salmon Count				Count of Other Species	
	Daily Adult	Daily Jack	Daily Total	Cummulative Total	Coho	Pink
8/13	11		11	928		2
8/14	286	6	292	1,220		240
8/15	84	2	86	1,306		86
8/16	14		14	1,320		28
8/17	171	1	172	1,492		44
8/18	132	2	134	1,626		86
8/19	76		76	1,702		32
8/20	68	4	72	1,774		16
8/21	210	8	218	1,992		183
8/22	888	16	904	2,896	14	407
8/23	403	12	415	3,311	14	211
8/24	268	8	276	3,587	16	72
8/25	1,053	18	1,071	4,658	15	195
8/26	586	15	601	5,259	2	42
8/27	26	2	28	5,287		12
8/28				5,287		
8/29				5,287		
8/30	4		4	5,291		
8/31	6	1	7	5,298		
9/1	52	2	54	5,352		
9/2	2		2	5,354		
9/3	12	3	15	5,369		
9/4	59	8	67	5,436		
9/5	34	4	38	5,474		
9/6	286	14	300	5,774	84	
9/7	1,831	49	1,880	7,654	18	
9/8	614	38	652	8,306	21	
9/9	781	40	821	9,127	19	
9/10	408	14	422	9,549	2	
9/11	324	2	326	9,875		
9/12	82	4	86	9,961		
9/13	52		52	10,013		
9/14	185	4	189	10,202**		
TOTAL	9,902	300	10,202	10,202**	205	1,698

* During the season a total of 889 reds were captured at the mouth of Eshamy River and held in a live pen for later transplant to Lower Herring Bay Lake. A total of 255 were successfully planted in Lower Herring Lake. The missing reds were apparently lost to sea lion or seal predation?

** Weir removed on September 14th.

TABLE 67. Eshamy River red salmon weekly cumulative weir counts, 1960 - 1973.

Date Ending	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
6/30	52	2,183	1,096	0	8	0	16	26	363	47	64	0	0	0	
7/7	1,308	3,421	1,441	116	28	0	49	846	639	347	172	0	2,625	20	
7/14	3,220	4,317	1,768	168	1,948	885	784	858	1,362	1,151	240	0	4,863	43	
7/21	4,633	5,381	1,877	195	3,379	1,553	1,181	875	1,948	1,220	341	55	6,664	67	
7/28	6,214	6,209	2,024	211	5,336	5,110	2,795	896	2,012	1,224	932	585	6,881	171	
8/4	7,316	7,438	2,132	222	6,706	8,271	5,281	1,195	6,503	2,712	1,632	731	7,756	366	
8/11	8,252	21,412	3,704	546	8,657	11,252	10,670	3,208	10,925	4,755	2,046	799	11,088	807	
8/18	10,509	31,580	5,538	716	17,604	28,568	13,912	3,871	23,806	5,599	7,204	811	22,822	1,626	
8/25	12,209	38,474	7,450	2,063	45,994	41,965	25,471	9,031	66,113	7,059	9,675	934	25,159	4,658	
9/2	13,217	45,072	8,720	2,588	65,672	51,150	26,375	10,746	67,766	10,935	11,065	944	26,931	5,354	
9/9		46,400	9,297	3,064	67,730	53,053	26,572	10,821	68,048	24,722	11,431	951	28,472	9,127	
9/16		47,275	9,390	3,092		90,438	26,593			61,185	11,460	954	28,683	10,202	
9/23						108,934				61,196					
TOTAL	13,217	47,275	9,390	3,092	67,730	108,934	26,593	10,821	68,048	61,196	11,460	954*	28,683	10,202	

* Probably inaccurate because of holes in weir. Actual escapement is estimated to be at least 3,000.

TABLE 68. Eshamy River weir station weather data 1972 and 1973.

Date	1972 Air Temp.	1972 Water Temp.	1972 Water Level	1972 General Weather	1973 Air Temp. Min.	1973 Air Temp. Max.	1973 Water Temp	1973 Water Level	1973 General Weather
5/1									
5/2								.48 4	Overcast-snow
5/3					32	45	34	.48 4	Overcast-rain
5/4					34	43	34	.49 4	Overcast-rain
5/5					34	42	34	.50 4	Overcast-rain
5/6					32	40	34	.47 4	Overcast-rain
5/7					32	40	34	.42 4	Overcast-rain
5/8					34	44	34	.38 4	Overcast-rain
5/9					32	50	34	.37 4	Overcast-rain
5/10					34	49	34	.40 4	Overcast-rain
5/11					35	48	34	.41 4	Overcast-rain
5/12					32	46	34	.41 4	Overcast
5/13					32	50	34	.40 1	Clear
5/14					36	48	34	.62 4	Overcast-rain
5/15					36	45	34	.80 4	Overcast-rain
5/16					35	45	34	.88 4	Overcast-rain
5/17	40	33	.08 4	Overcast	36	46	34	.95 4	Overcast-rain
5/18	33	33	.14 4	Overcast	35	45	34	.95 4	Overcast-rain/tr.
5/19	39	33	.20 4	Overcast-rain	30	48	34	.88 4	Overcast-rain/tr.
5/20	35	33	.22 4	Overcast-rain	36	42	34	.85 4	Overcast-rain
5/21	38	33	.20 1	Clear	36	43	34	.86 4	Overcast-rain
5/22	46	33	.20 2	Pt. Cloudy	34	44	34	.82 4	Overcast-rain
5/23	35	33	.20 4	Overcast-rain	32	52	34	.68 1	Clear
5/24	37	34	.22 4	Overcast-rain	36	47	34	.70 4	Overcast-rain
5/25	42	34	.30 4	Overcast-rain	33	46	34	.64 4	Overcast-rain
5/26	35	34	.32 4	Overcast-rain	35	45	34	.66 4	Overcast-rain
5/27	43	34	.42 4	Overcast	33	42	34	.62 4	Overcast-rain
5/28	42	34	.42 4	Overcast	34	44	34	.64 4	Overcast-rain
5/29	48	34	.44 1	Clear	30	50	34	.64 2	Pt. Cloudy
5/30	38	34	.48 4	Overcast-rain	34	50	34	.64 2	Pt. Cloudy
5/31	43	34	.60 4	Overcast-rain	35	44	34	.62 2	Pt. Cloudy
6/1	39	34	.60 4	Overcast-rain	34	44	34	.65 4	Overcast-rain
6/2	39	34	.60 4	Overcast-rain	33	47	34	.70 3	Partly Cloudy
6/3	39	34	.64 4	Overcast-rain	33	45	34	.66 2	Partly Cloudy/tr.
6/4	44	34	.66 4	Overcast-rain	32	48	34	.63 4	Overcast-rain
6/5	39	34	.64 4	Overcast-rain	34	43	34	.68 4	Overcast-rain
6/6	40	34	.58 1	Clear	33	44	34	.70 4	Overcast-rain
6/7	48	35	.56 1	Clear	34	44	34	.68 3	Partly Cloudy
6/8	41	35	.52 1	Clear	34	44	35	.68 4	Overcast/tr.
6/9	44	35	.50 2	Pt. Cloudy	35	45	35	.66 2	Partly Cloudy
6/10	46	35	.50 1	Clear	34	47	35	.64 2	Partly Cloudy/tr.
6/11	42	35	.48 2	Pt. Cloudy	33	56	35	.63 1	Clear
6/12	52	35	.46 4	Overcast	37	57	35	.68 2	Partly Cloudy
6/13	46	35	.40 4	Overcast-rain	37	58	35	.69 1	Clear
6/14	48	35	.42 2	Pt. Cloudy	37	57	35	.70 4	Overcast-rain
6/15	49	35	.44 4	Overcast	36	49	35	.72 4	Overcast-rain

TABLE 68. Eshamy River weir station weather data, 1972 and 1973, cont.

Date	1972 Air Temp.	1972 Water Temp.	1972 Water Level	1972 General Weather	1973 Air Temp. Min.	1973 Air Temp. Max.	1973 Water Temp.	1973 Water Level	1973 General Weather
6/16	49	36	.44	Overcast-rain	36	46	36	.72	Partly Cloudy
6/17	42	36	.46	Overcast-rain	35	49	36	.76*	Overcast
6/18	45	36	.44	Partly Cloudy					Overcast-rain
6/19	47	37	.44	Clear	38	48	36	.76	Overcast/tr
6/20	46	37	.44	Overcast	38	48	37	.74	Overcast
6/21	44	39	.43	Clear	38	58	38	.72	Clear
6/22	48	39	.40	Overcast-rain	39	50	38	.80	Overcast-rain
6/23	46	39	.48	Clear	35	56	38	.80	Clear
6/24	46	39	.50	Overcast	35	54	38	.80	Overcast-rain
6/25	49	39	.48	Overcast	37	47	38	.80	Overcast-rain
6/26	52	40	.48	Overcast-rain	40	50	40	.80	Partly Coudy
6/27	49	40	.50	Overcast-rain	38	54	40	.78	Clear
6/28	50	40	.50	Overcast-rain	36	62	42	.72	Clear
6/29	54	41	.56	Overcast-rain	40	58	44	.70	Overcast
6/30	54	41	.50	Overcast-rain	44	55	44	.68	Overcast/tr.
7/1	59	41	.48	Partly Cloudy	40	53	45	.62	Overcast/rain
7/2	45	42	.46	Partly Cloudy	47	58	46	.60	Overcast
7/3	56	43	.44	Partly Cloudy	46	59	48	.58	Overcast
7/4	56	47	.44	Clear	45	62	49	.56	Clear
7/5	58	47	.44	Clear	43	61	50	.55	Clear
7/6	56	48	.43	Clear	43	52	50	.56	Clear
7/7	59	49	.42	Clear	45	56	51	.54	Overcast
7/8	60	50	.39	Clear	46	51	51	.53	Overcast
7/9	58	50	.38	Clear	47	62	51	.52	Overcast/rain
7/10	60	54	.29	Overcast	48	62	52	.51	Partly Cloudy
7/11	68	55	.28	Clear	48	68	54	.50	Overcast/tr.
7/12	68	56	.28	Partly Cloudy	48	56	55	.48	Overcast-rain
7/13	59	57	.28	Overcast-rain	46	50	55	.62	Overcast-rain
7/14	54	57	.29	Overcast-rain	43	55	56	.60	Overcast-rain
7/15	61	58	.30	Overcast-rain	43	59	56	.57	Partly Cloudy
7/16	56	58	.31	Partly Cloudy	43	56	54	.54	Overcast/tr.
7/17	54	58	.30	Overcast-rain	48	50	53	.52	Overcast-rain
7/18	58	59	.28	Overcast-rain	49	62	55	.51	Clear
7/19	51	59	.25	Partly Cloudy	49	59	55	.51	Partly Cloudy
7/20	66	60	.20	Clear	46	62	56	.50	Overcast
7/21	66	61	.20	Clear	47	60	56	.48	Overcast/tr.
7/22	64	60	.20	Clear	49	58	56	.46	Overcast-rain
7/23	64	60	.18	Clear	50	60	57	.43	Overcast-rain
7/24	64	61	.15	Clear	50	62	58	.36	Partly Cloudy
7/25	65	62	.10	Clear	50	57	58	.32	Overcast
7/26	61	62	.08	Partly Cloudy	51	59	57	.32	Overcast/tr.
7/27	53	62	.08	Overcast	48	56	56	.42	Overcast-rain
7/28	58	60	.08	Overcast-rain	50	54	56	.70	Overcast-rain
7/29	62	60	.08	Overcast	50	52	53	.72	Overcast-rain
7/30	59	60	.06	Overcast	48	53	52	.86	Overcast-rain
7/31	63	60	.05	Overcast	49	55	52	.80	Overcast-rain

TABLE 68. Eshamy River weir station weather data, 1972 and 1973, cont.

Date	1972 Air Temp.	1972 Water Temp.	1972 Water Level	1972 General Weather	1973 Air Temp. Min.	1973 Air Temp. Max.	1973 Water Temp.	1973 Water Level	1973 General Weather
8/1	58	60	.05	4 Overcast	43	55	52	.66	4 Overcast
8/2	58	61	.00	4 Overcast-rain	45	58	53	.62	2 Partly Cloudy
8/3	60	61	.01	2 Partly Cloudy	45	59	54	.56	2 Partly Cloudy
8/4	58	61	.06	4 Overcast-rain	46	60	54	.54	2 Partly Cloudy
8/5	56	61	.10	4 Overcast-rain	45	56	54	.54	4 Overcast-rain
8/6	53	62	.18	4 Overcast-rain	45	56	54	.56	4 Overcast-rain
8/7	59	62	.25	1 Clear	48	59	53	.50	4 Overcast-rain
8/8	59	62	.23	1 Clear	50	54	53	.48	4 Overcast-rain
8/9	61	62	.22	1 Clear	50	56	55	.44	4 Overcast-rain
8/10	59	63	.18	1 Clear	48	54	57	.40	4 Overcast-rain
8/11	59	63	.12	4 Overcast	46	57	58	.38	2 Partly Cloudy
8/12	56	62	.08	4 Overcast-rain	43	62	58	.38	1 Clear
8/13	52	61	.19	4 Overcast-rain	43	62	59	.37	1 Clear
8/14	59	61	.25	4 Overcast-rain	42	59	60	.28	1 Clear
8/15	59	61	.40	4 Overcast-rain	42	60	58	.26	1 Clear
8/16	59	60	.52	1 Clear	42	61	58	.18	1 Clear
8/17	57	60	.48	1 Clear	42	62	58	.14	1 Clear
8/18	56	60	.46	4 Overcast-rain	46	61	59	.12	1 Clear
8/19	56	60	.40	4 Overcast-rain	47	60	59	.12	1 Clear
8/20	55	60	.38	4 Overcast-rain	48	58	57	.10	4 Overcast-rain
8/21	55	59	.40	4 Overcast-rain	49	56	57	.14	4 Overcast-rain
8/22	54	59	.50	4 Overcast-rain	46	54	57	.18	4 Overcast-rain
8/23	51	59	.80	4 Overcast-rain	48	56	57	.20	1 Clear
8/24	51	58	.92	4 Overcast-rain	50	53	57	.20	4 Overcast-rain
8/25	59	58	.86	1 Clear	50	55	56	.22	4 Overcast-rain
8/26	56	58	.75	2 Partly Cloudy	42	61	56	.22	2 Partly Cloudy/tr.
8/27	57	58	.68	2 Partly Cloudy	42	59	56	.24	1 Clear
8/28	57	57	.68	4 Overcast-rain	40	56	56	.26	2 Partly Cloudy/tr.
8/29	52	57	.68	4 Overcast-rain	41	56	56	.24	2 Partly Cloudy/tr.
8/30	51	57	.68	4 Overcast-rain	41	52	56	.24	4 Overcast-rain
8/31	54	57	.68	4 Overcast-rain	42	51	55	.25	4 Overcast-rain
9/1	52	56	.70	4 Overcast-rain	41	52	55	.25	4 Overcast-rain
9/2	46	56	.82	4 Overcast-rain	42	56	54	.26	1 Clear
9/3	48	56	.90	4 Overcast-rain	41	51	54	.26	4 Overcast-rain
9/4	51	55	.88	4 Overcast-rain	46	52	53	.32	4 Overcast-rain
9/5	53	55	.90	4 Overcast-rain	45	54	53	.48	4 Overcast-rain
9/6	46	55	.78	2 Partly Cloudy	43	54	52	.95	4 Overcast-rain
9/7	49	54	.66	4 Overcast	45	50	50	.95	4 Overcast-rain
9/8	54	54	.64	4 Overcast	45	48	50	.82	4 Overcast-rain
9/9	50	54	.56	4 Overcast	42	48	50	.70	2 Partly Cloudy
9/10	52	54	.50	4 Overcast-rain	39	48	50	.62	1 Clear
9/11	54	54	.58	4 Overcast-rain	40	50	51	.62	2 Partly Cloudy
9/12	52	53	.56	4 Overcast-rain	42	50	51		4 Overcast
9/13					45	51	51	.38	4 Overcast
					46	53	50	.28	4 Overcast-rain

1/ Temperature in degrees Fahrenheit. 2/ Water level measured in tenths of feet.
* Water level increased from .72 to .76 when weir was installed.

COGHILL AND UNAKWIK DISTRICTS

Commercial Fishery - 1972

The early red salmon season opened as scheduled on June 19 and continued uninterrupted until closed by emergency order to drift gill nets on July 19. Prices of purse seine caught salmon were not settled, so purse seine gear was not fished this year.

The 1972 catch statistics are summarized in TABLE 70. The catch of all species is above the average since 1960, and the excellent red salmon catch about equaled the previous high catch of 144,818 reds taken in 1969.

Comparable catch and catch per unit of effort by drift gill nets is shown in TABLE 72 for the years since 1961. In 1972 drift gill net gear caught 69 kings, 144,638 reds, 296 coho, 9,406 pinks and 19,247 chums.

Escapement - 1972

The weir - tower counts of red salmon in Coghill River were continued in 1972 and comparative spawning escapement estimates are summarized in TABLE 73.

Commercial Fishery - 1973

The salmon season opened as scheduled on June 18 and continued without interruption until closed by emergency order to drift gill nets on July 20.

In anticipation of a large run of pink salmon to Coghill River the west side of Port Wells was opened to fishing this year. Approximately 45 percent of the early Coghill season pink salmon catch was from the west side of Port Wells, so it appears that the additional open area did help to increase the harvest of Coghill River bound pinks.

Comparable drift gill net catch by species for Coghill and Unakwik Districts is shown in TABLE 72. The catch of all species was above the average for the 13 year period with exceptionally large catches of both pink and chum salmon being made.

The 1973 catch statistics are summarized in TABLE 71 for both purse seines and drift gill nets. In 1973 both types of gear caught 244 kings, 102,901 reds, 378 coho, 304,871 pinks and 139,728 chums.

FIGURE 9 shows the annual salmon catch from the Coghill and Unakwik Districts from 1961 to 1973.

Escapement - 1973

In 1973 an electronic sonar fish counter was installed in the Coghill River at the weir station, but continued low water during the counting period made the sonar counts unreliable. Weir - tower counts and aerial estimates were continued and are presented in TABLE 74. A large run of pink salmon returning to Coghill River were successful in escaping the commercial fishery with a resulting spawning escapement estimated to be about 543,150 pinks. Good spawning escapements of 55,000 reds and 46,000 chums were also estimated. FIGURE 10 graphically presents the Coghill River visual red salmon counts in 1973.

TABLE 70. Coghill and Unakwik district drift gillnet weekly catch, 1972. 1/

Week	Kings	Reds	Cohos	Pinks	Chums	Units of Gear
26	8	7,401	3	15	1,786	54
27	19	31,604	19	467	5,019	122
28	13	75,964	84	1,818	4,830	189
29	28	24,906	182	4,446	5,218	195
30	1	4,763	8	2,660	2,394	63
TOTAL	69	144,638	296	9,406	19,247	

1/ No purse seine fishery conducted in 1972.

TABLE 71. Coghill and Unakwik district purse seine and drift gill net weekly catch, 1973. 1/

Purse Seine 2/

Week	Kings	Reds	Cohos	Pinks	Chums	Units of Gear 3/
25	2	13		1	7	2
26	4	417		102	201	5
27	17	433		3,182	399	10
28	6	555		24,226	5,107	27
29	24	2,434	24	141,742	23,741	129
30	13	393	105	46,046	25,777	103
31		157	4	8,627	2,577	46
Sub-total	66	4,402	133	223,926	57,809	

Drift Gill Net

25	34	19,542	23	178	12,294	225
26	64	33,544	52	1,904	14,431	307
27	25	30,170	71	21,772	18,757	369
28	47	13,623	74	33,572	23,008	323
29 *	8	1,620	25	23,519	13,429	113
Sub-total	178	98,499	245	80,945	81,919	
TOTAL	244	102,901	378	304,871	139,728	

1/ Data from early Coghill - Unakwik season, June 18 to July 23.
2/ Purse seine catch data also appears in the Prince William Sound catch,
3/ This includes some duplicates of vessels that fished and delivered in more than one area during some weeks.

TABLE 72. Coghill and Unakwik District gill net comparative effort and catch, 1961 - 1973.

Year	Reds	Pinks	Chums	Cohos	Average Units of Gear	Red Catch/ Unit of Gear
1961 1/	12,961	10,019	2,412	13	25	518
1962 2/	13,846	2,241	4,817	15	41	338
1963 3/	16,965	2,689	5,265	20	19	893
1964 3/	28,864	5,790	4,494	2	44	656
1965 *	22,855	1,905	4,363	18	19	1,203
1966 *	30,924	995	1,684	6	24	1,289
1967 *	24,565	37,854	18,607	45	73	337
1968 *	47,323	19,326	16,870	114	91	520
1969 *	79,442	1,142	8,153	9	55	1,444
1970 *	27,916	8,503	5,765	62	82	340
1971 *	31,332	4,117	11,365	54	176	178
1972	144,638	9,406	19,247	296	189	918
1973 *	98,499	80,945	81,919	245	271	364
TOTAL	580,130	183,932	184,961	899		
AVERAGE	44,625	14,918	14,228	69		

1/ The first season for drift gill net fishing in the Coghill District.
2/ The first season for drift gill net fishing in the Unakwik District.
3/ No drift gill net catches were reported from the Unakwik District.
* Purse seines also fished these years.

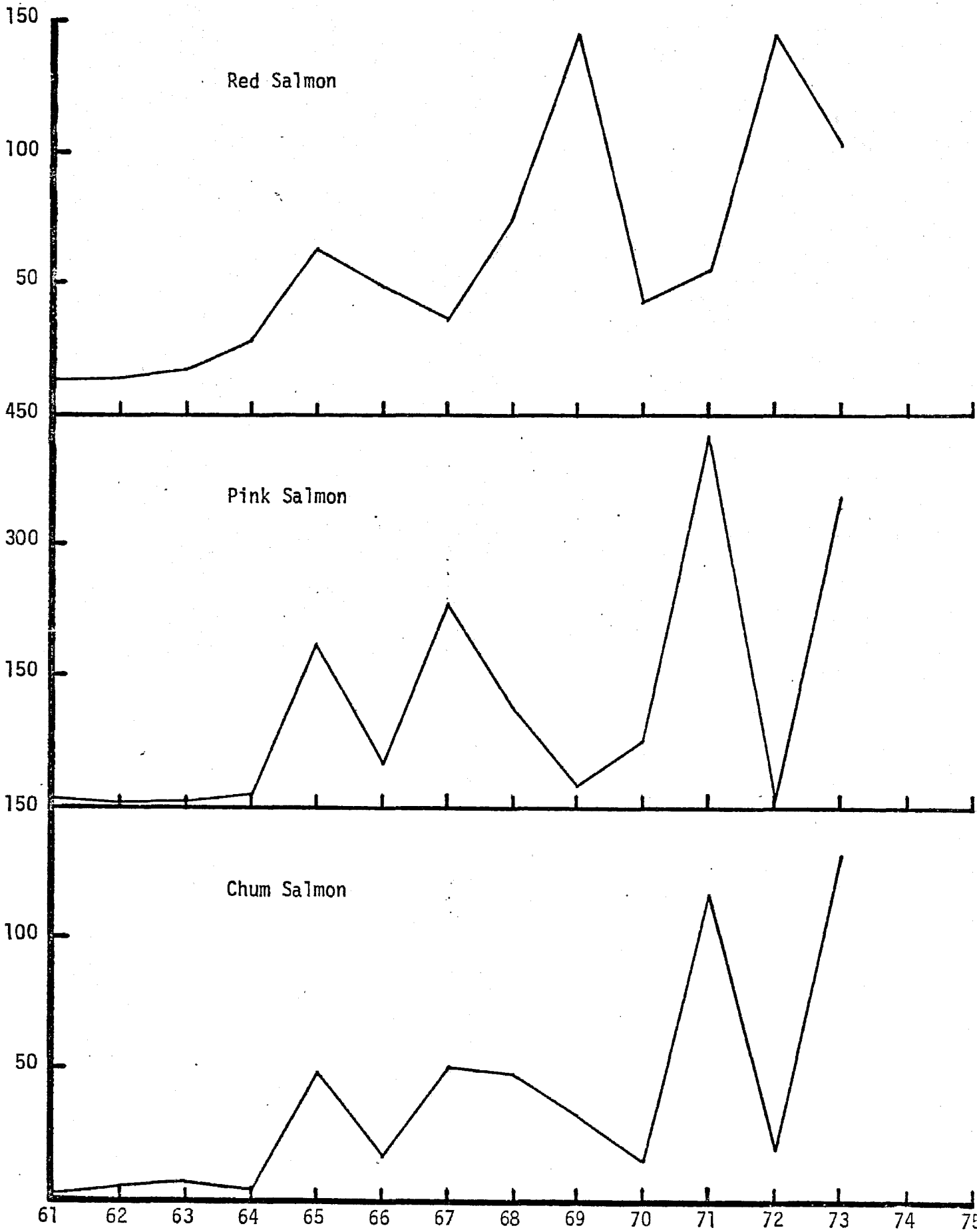

FIGURE 9. Coghill and Unakwik District commercial salmon catches, 1961 - 1973.

TABLE 73. Comparative Coghill River spawning escapement estimates, 1960 - 1973.

Year	WEIR - TOWER ESTIMATES 1/				AERIAL - GROUND SURVEY ESTIMATES 2/			
	Reds	Chums	Pinks	Coho	Reds	Chums	Pinks	Coho
1960					129,000	24,012	2,840	
1961	54,792	1,160	183,661		40,000	49,324	195,600	
1962	26,866		114		12,000	27,000	3,520	
1963	63,984				75,000	63,400	57,930	280
1964					22,200	37,640	9,720	
1965	40,000				85,000	13,200	62,000	
1966	80,000				85,000	10,360	6,260	
1967	11,800 *	7,960	187,224		33,000	6,600	139,300 3/	
1968 4/					11,800	12,640	2,650	
1969 5/	10,142 *				81,000	34,600	72,000	
1970 5/	9,658 *				35,200	3,080	18,580	
1971	no weir count				15,000	10,200	500,000	
1972	16,392				51,000	11,700	7,770	
1973	13,281				55,000	73,600	543,150	

1/ Above weir.
2/ Entire system.
3/ Estimated from stream counts. Aerial estimates of schooled pink salmon in Coghill Lake indicated an escapement in excess of 500,000.
4/ Aerial estimate of red salmon escapement only as red migration preceeded weir installation.
5/ The weir was removed prior to the upstream migration of pinks and chums.
* Unexpanded counts.

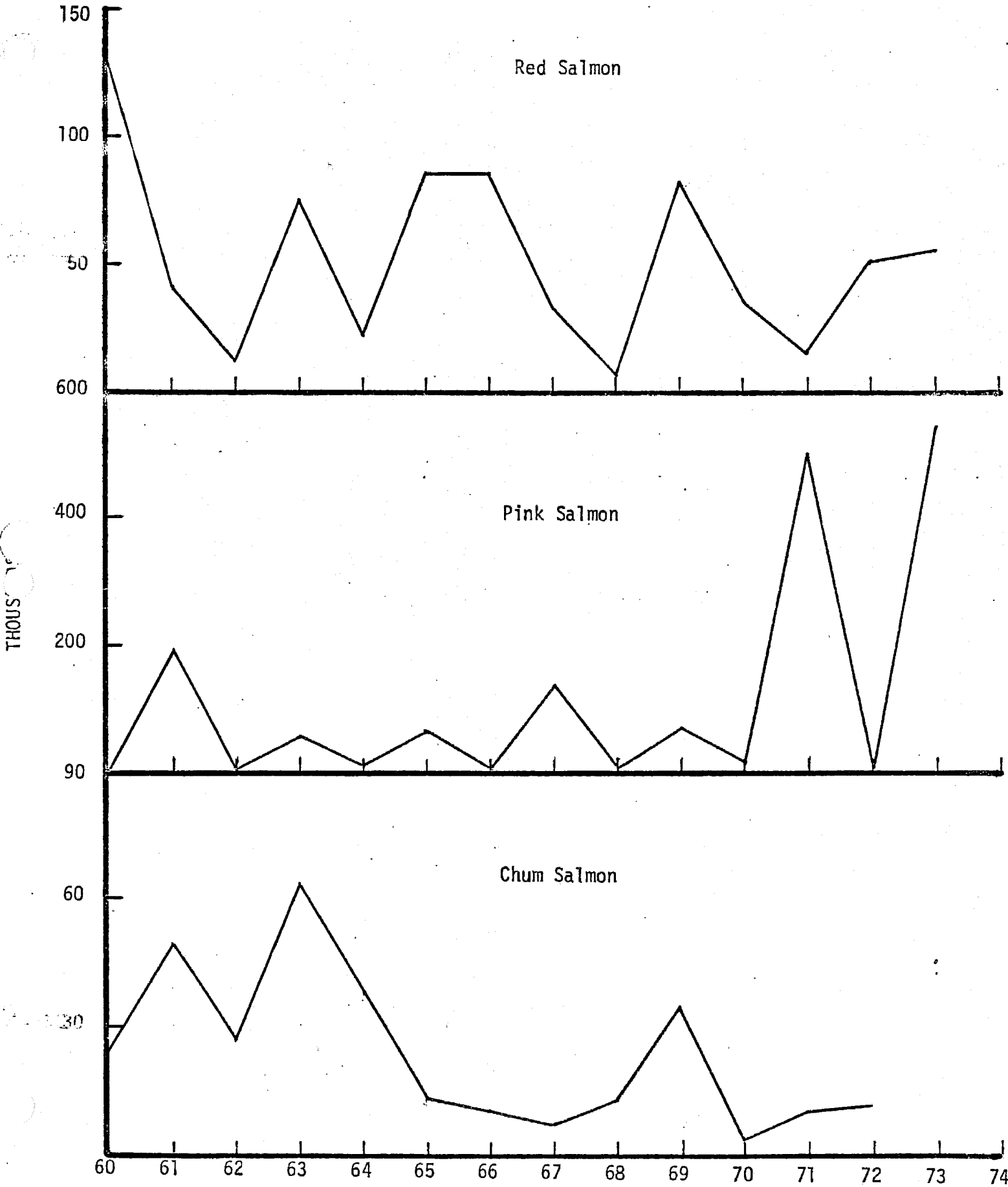

FIGURE 10. Coghill River aerial salmon spawning escapements, 1960 - 1973.

TABLE 74. Coghill Lake visual red salmon count, 1973.

Data	Visual Red Salmon Count	Air Temperature	Water Temperature
6/29	47	52°	42°
6/30	0	52°	42°
7/1	2	56°	44°
7/2	277	55°	43°
7/3	678	60°	44°
7/4	70	60°	44°
7/5	769	60°	44°
7/6	557	63°	48°
7/7	1,197	56°	48°
7/8	6,872	58°	46°
7/9	2,812	58°	48°
7/10	Removed weir from river	57°	47°
TOTAL	13,281		

Counts were made on a daylight basis only, usually 8 - 12 hours daily, and are low.

Sonar counts were very erratic, sometimes as much as 20 to 40,000 in an overnight period. The water was too shallow during the time that the array was in the water to give a semblance with visual counts.

CRAB FISHERY

Dungeness Crab

The Dungeness crab catch showed an increase in 1972 and again in 1973 after the declining period from 1967 to 1971, FIGURE 11. Dungeness crab were harvested mainly from Orca Bay and the gulf area between Cape Suckling and Hook Point with about one-half the total catch taken from inside waters during each of the two years.

The soft-shelled condition prevalent during the 1971 season was improved in 1972 and practically non-existant in 1973. Fishing pressure was about the same in 1971 and 1972 in number of weeks fished, but more gear was fished in 1972, and more effort was evident in the gulf area between Cape Suckling and Hook Point.

Peak fishing effort usually occurs in early September each year when the Orca Bay "inside area" opens to fishing. In 1972 a total of 41 vessels operated gear as compared to 27 in 1973. The fact that there was no salmon purse seine season in Prince William Sound in 1972 probably accounts for the large number of vessels operating in the Dungeness crab fishery. The salmon purse seine fishery was open in 1973, and the number of Dungeness crab vessels showed a decided decrease.

Seasonal catches of Dungeness crab are shown for 1972 and 1973 in TABLE 75 and 76 respectively. Historical catches from inception of the fishery are shown in APPENDIX TABLE 17.

King Crab

In 1970 the Board of Fish and Game established catch quotas for king crab fishing areas throughout the State. A catch quota of 500,000 pounds was designated for the Prince William Sound Area. To date the king crab fishery has never closely approached this figure. The largest annual catch of king crab for the area was 296,132 pounds landed in 1972 and the next highest catch was 246,965 taken in 1960, APPENDIX TABLE 18. The 1972 and 1973 king crab catch by area and week is shown in TABLE 77 and 78. Historical king crab catches are shown in APPENDIX TABLE 18.

Tanner Crab

TABLE 79 and 80 show landings of tanner crab taken from the Prince William Sound Area in 1972 and 1973 respectively. The tanner crab fishery which began in 1968 has shown a tremendous growth within a period of six years, and with continued demand expected for crab products the fishery will probably continue to expand within the limits of harvestable populations. Historical catches are shown in APPENDIX TABLE 19.

Two quota areas were promulgated by the Board of Fish and Game for the Prince William Sound Area in 1972. The "INSIDE" area, which comprises the waters of Prince William Sound, has a quota of 3.5 million pounds of tanner crab, and the "OUTSIDE" area, the waters of the Gulf of Alaska between Cape

Suckling and Cape Fairfield has a quota of 12 million pounds. The "OUTSIDE" quota was closely approached by a catch of 11.7 million pounds landed during the 1972-73 season, TABLE 79, and future expansion of the fishery in the gulf area may cause the quota to be taken.

Efforts to obtain funding for tanner crab research have not been successful and present data collection consists of distribution and catch sampling.

During 1972 and 1973 the commercial landings of tanner crab were periodically sampled for length and width to determine the trend of the fishery and verify the size distribution being utilized. TABLE 81 shows a length range of 75 to 149 m.m., and a width range of 100 to 184 m.m. FIGURE 12 depicts graphically tanner crab lengths for the 1971-72 and 1972-73 season which shows there is no significant difference in the size distribution for the two years.

TABLE 75. Dungeness crab catch in pounds by statistical area, by week, from the Prince William Sound Area, 1972.

	Statistical Area																			
Week	201 -00	201 -07	201 -08	201 -09	201 -12	201 -14	201 -17	201 -19	201 -21	201 -22	201 -34	201 -36	201 -54	203 -11	203 -91	203 -95	203 -96	203 -98	203 -99	Total
28								11610						713						12,323
29								38525	32823		11610									82,958
30					5100		843	3115	18010		15910		15495							58,473
31								8060	5961	5025	6060		10140							35,246
32						4381		3045			5370		14830							27,626
33						9447	19640	13801	12155				5930		1215					62,188
34						5370	9533			460		2240	6330		1105					25,038
35						4950	11434	11805					6950		890					36,029
36	42884	1888	7330			1362	14846	8156					7125		2660			6350	12435	105,036
37	55545	1938	10791				520											9434	19655	97,883
38	25235	1038	5225				855											3045	8913	44,311
39	5920		1745			1045							12005			585		435	1685	23,420
40													7310						1775	9,085
41																			1020	1,020
42	555												7830							8,385
43	515			2010																2,525
44							16890													16,890
45							6820													6,820
46	1995						7840										180		3466	13,481
47	9595																180		10365	20,140
48	4965																80	295	3811	9,151
49	3610																145	255	5055	9,065
50	5725																230		3290	9,245
51	2655																160		1195	4,010
52	2170																		470	2,640
53	830											125					200		530	1,685
TOTAL	162199	4864	25091	2010	5100	26555	89221	98117	68949	5485	38950	2365	93945	713	5870	585	1175	19814	73665	724,673

LE 76. Dungeness crab catch in pounds by statistical area, by week, from the Prince William Sound Area, 1973.

k	201 -00	201 -06	201 -08	201 -09	201 -14	201 -34	201 -37	201 -38	201 -53	201 -71	201 -92	203 -15	203 -31	203 -86	203 -87	203 -95	203 -96	203 -98	203 -99	Number Landings	No. Boats	Number Pounds	Cum. Pounds
	2077												120					375	65	12	8	2637	2637
	2920											255		175			265	1330	1097	19	9	6042	8679
	140											15								2	2	155	8834
	1190											35					135	540	320	9	9	2220	11054
	617																		105	6	5	722	11776
	1060														250	150	575		1886	18	8	3921	15697
	755														120		215		592	7	7	1682	17379
	1290											35				90	150			7	6	1565	18944
	1690															25			2450	12	8	4165	23109
	2555																		1165	10	4	3720	26829
	2555																			5	3	2555	29384
	2530																			5	2	2530	31914
	2065					70													7285	7	5	9420	41334
	1265																			2	1	1265	42599
	2015					25	180												1025	6	5	3245	45844
	2875					65	387													7	4	3327	49171
	4280																			5	2	4280	53451
	5650						575													8	5	6225	59676
	4105																			5	3	4105	63781
	2850								5983											8	5	8833	72614
	270						1980													2	2	2250	74864
							10100		8455											4	4	18555	93419
							4800		8210											3	3	13010	106429
	860							3990	3715	20090	14941									5	5	43596	150025
	1820						3185	6300	11635		41345									7	5	64285	214310
	4350						2610		4495	17195										6	5	28650	242960
				890	3255			5300	20170											6	5	29615	272575
				1170	5300			10070	7455											6	5	23995	296570
				1485	9335			15769	7925											6	4	34514	331084
					4135			13615	7952											3	3	25702	356786
					6770			13715	6975											4	4	27460	384246
					3410			9372	5860											3	3	18642	402888
					6410			8975	7250											4	3	22635	425523
					3735				7353											3	3	11088	436611
	22520		315		3235				12819									1025	1805	22	20	41719	478330
	77355		4160		2810				5255										14540	85	21	104120	582450
	39115	3060	1870		1990				6245										4010	66	24	56290	638740
	25045	2520	1700		625				15752										1060	51	27	46702	685442
	12100	2280	690						9400										1295	40	23	25765	711207
	12680	2115	885						6610										720	32	19	23010	734217

7700	370	340					11294										21	13	19704	753921
8690	140						6081										20	14	14911	768832
8190			1330				5575									500	25	14	15595	784427
3305							655									370	10	9	4330	788757
4800							3265				420						16	11	8485	797242
1850																780	8	6	2630	799872
3820																	7	5	3820	803692
2155																140	10	7	2295	805987
390																	1	1	390	806377
281499		9960		52340		23817		196384		56286		120		790		1340		41210		
	10485		3545		160		87106		37285		340		175		265		3270		636	806377

77. King crab catch in pounds by statistical area, by week, from the Prince William Sound Area, 1972.

201 -00	201 -04	201 -32	201 -36	203 -05	203 -11	203 -15	203 -31	203 -44	203 -67	203 -68	203 -76	203 -87	203 -88	203 -95	203 -96	203 -98	203 -99	Number Landings	Number Pounds	Cum. Pounds
												195						1	195	195
27												85		60	58			5	230	425
						1755			2370					235				4	4360	4785
														404	41			6	445	5230
														390	14			5	404	5634
					6635							1490		240	315			6	8680	14314
														571	50			5	621	14935
														246	25			5	271	15206
								40						99	47			7	186	15392
						576					240							2	816	16208
				4595	530													2	5125	21333
				10875	2845												975	3	14695	36028
				10855	4150													2	15005	51033
				21210	6869													4	28079	79112
440				10775	17256							492						6	28963	108075
													690					2	690	108765
1920					12685													2	14605	123370
					21553													2	21553	144923
						827						4200	170					3	5197	150120
				16205														3	16205	166325
												4525			11185			2	15710	182035
												3475				75		2	3550	185585
					3362			2796				977	6631	9975	4330	570		15	28641	214226
		575		12488	2710	869						165		4985	85	1485		16	23362	237588
		315										540		6830	3415	765		12	11865	249453
				8920			3445			227		105		1640	225	680		12	15242	264695
												1045		1705	3335	1035		22	10670	275365
	80			6393			3550					780		970	530	260		12	9013	284378
			455				2850					1375		1880	340	650		16	7550	291928
			320									310		930	2230	475		14	4265	296193
2387		890		102316		4027		2836		227		19759		31160		5995				
	80		775		78595		9845		2370		240		7491		26225		975	198		296193

TABLE 78. King crab catch in pounds by statistical area, by week, from the Prince William Sound Area, 1973.

Week	201 -00	201 -34	201 -36	203 -04	203 -11	203 -15	203 -69	203 -86	203 -87	203 -95	203 -96	203 -97	203 -98	203 -99	Number Boats	Number Landings	Number Pounds	Cumulative Pounds
1	94							870		460	750		545		7	13	2,719	2,719
2	330					1195		330		594	845		52	970	12	19	4,316	7,035
3	90					130	136	205	560	115	860				8	9	2,096	9,131
4						140		525		95			260	110	7	8	1,130	10,261
5						30		140							2	2	170	10,431
6			375						60		450			335	6	12	1,220	11,651
7									41		40	150		250	4	5	481	12,132
8									30	125	22				3	4	177	12,309
9		405												1320	2	5	1,725	14,034
10														145	1	2	145	14,179
11			110												1	1	110	14,289
34				15170										825	3	4	15,995	30,284
35				21889											2	3	21,889	52,173
36				10230										845	3	14	11,075	63,248
37				18358										250	3	3	18,608	81,856
38					27115										3	5	27,115	108,971
39					19910										2	2	19,910	128,881
40					1180										1	1	1,180	130,061
41				26565											3	3	26,565	156,626
42				7425	600										2	2	8,025	164,651
43				1415	630										2	2	2,045	166,696
44				4340					1600						3	3	5,940	172,636
45				10190				260							3	3	10,450	183,086
46				390				390			290				3	3	1,070	184,156
47								200							1	1	200	184,356
48				7440				495							2	3	7,935	192,291
49				2185											2	4	2,185	194,476
50				2240											1	3	2,240	196,716
51				10590											3	3	10,590	207,306
52				610											2	3	610	207,916
TOTAL	514	405	485	139037	49435	1495	136	3415	2291	1389	3257	150	857	5050		135	207,916	207,916

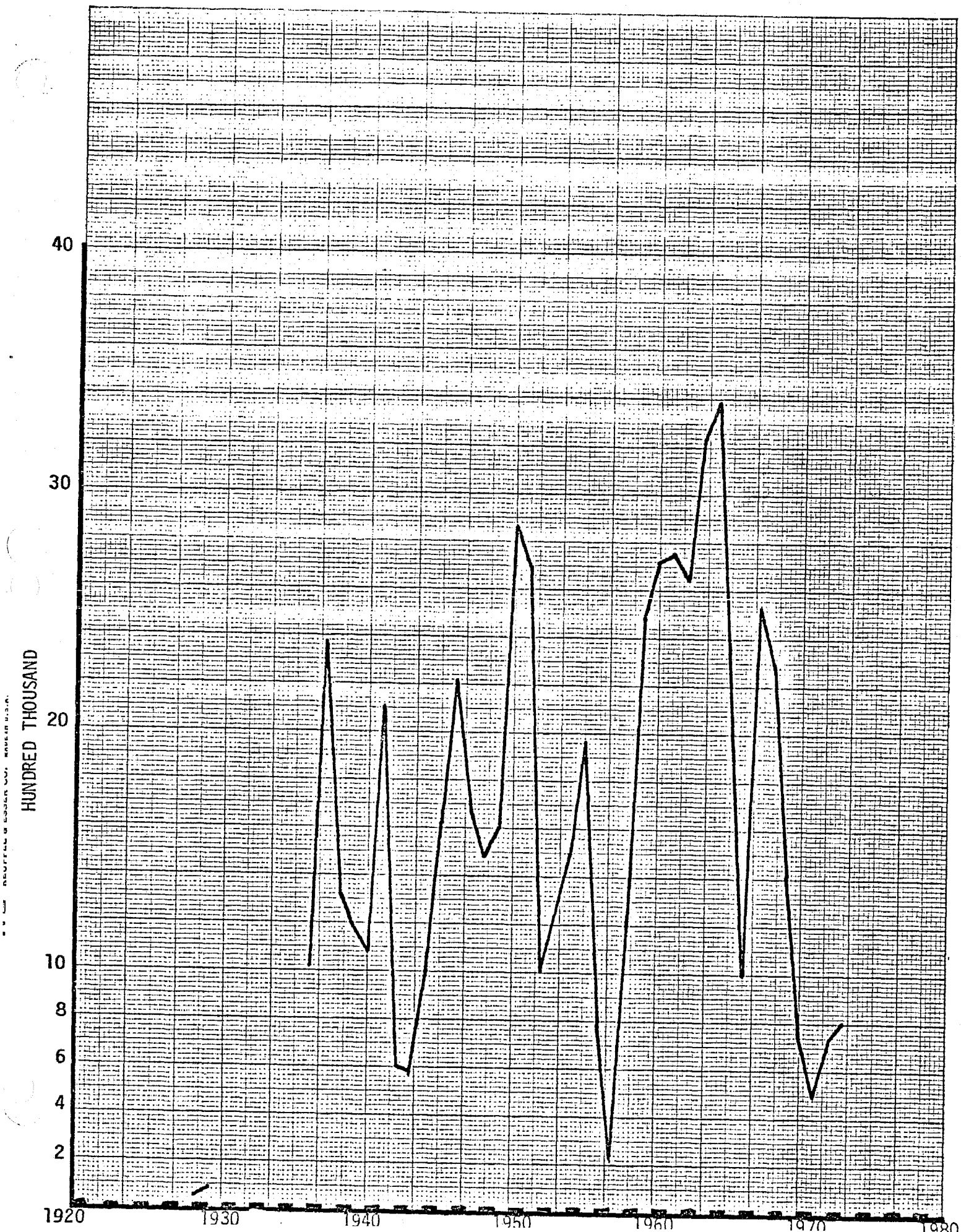
HUNDRED THOUSAND
40
30
20
10
8
6
4
2
1920
1930
1940
1950
1960
1970
1980

TABLE 79. Tanner crab catch in pounds, live weight, by stat area for 1972 and the 1972 - 73 season.

Stat Area	1972 Catch	Season (10/15/72 - 6/22/73) 1/	
		Inside Area	Outside Area
201-00	45,440	89,503	
201-03		478,492	
201-04	231,700	108,935	
201-08	85,630		
201-09	25,310		
201-12			78,775
201-17	49,479		
201-21	8,222		
201-22			277,620
201-32	309,426		887,286
201-33	176,967		
201-34	321,735		781,552
201-35	227,082		989,097
201-36	394,674		621,479
201-37	315,595		995,669
201-38			439,515
201-39	189,462		578,095
201-40	4,370		
201-42	102,115		
201-43	14,535		547,615
201-46	80,045		452,048
201-50			434,347
201-51			233,085
201-52			34,415
201-53			155,870
201-56			392,453
201-57	463,884		805,236
201-58	254,601		1,380
201-59			304,925
201-61	40,950		389,270
201-63			311,979
201-64			26,770
201-65			102,080
201-71			394,744
201-74			103,186
201-75			639,919
201-82	1,452,706		
201-96			43,615
202-10	3,259		3,259
202-24	478,716		
202-36			29,000
202-38			395,084
202-68			241,536
203-05	2,550	2,359	
203-15		148,025	
203-31	4,950	5,845	
203-34		1,085	

TABLE 79. Tanner crab catch in pounds, live weight, by stat area for 1972 and the 1972 - 73 season. cont.

Stat Area	1972 Catch	Season (10/15/72 - 6/22/73) 1/	
		Inside Area	Outside Area
203-44	341,473		
203-45	630,622		
203-47	11,175		
203-53	2,980	2,980	
203-61		57,510	
203-67	510		
203-68	32,748	32,748	
203-69		32,288	
203-76	31,495		
203-79		4,425	
203-86		24,435	
203-87	113,186	120,010	
203-88	2,160	2,160	
203-89		9,890	
203-92	41,754		
203-93	203,149		
203-94	73,455	22,765	
203-95	965,475	668,242	
203-96	578,143	253,830	
203-97	96,875	19,635	
203-98	115,120	86,320	
203-99	26,986	199,395	
TOTAL	8,550,709	2,370,913	11,690,904

1/ Season closed by emergency order on June 22, 1973.

TABLE 80. Tanner crab catch in pounds by week, 1972 and 1973.*

Week	1972		1973 Inside Area			1973 Outside Area		
	Pounds		Boats	Pounds		Boats	Pounds	
1			15	(24)	58,425	6	(6)	51,285
2	(12)	68,350	25	(43)	162,916	5	(6)	152,660
3	(11)	68,431	13	(16)	111,364	7	(7)	171,321
4	(10)	61,817	19	(25)	73,563	8	(8)	180,000
5	(21)	135,968	13	(13)	35,395	7	(7)	117,380
6	(19)	158,943	18	(35)	120,980	13	(31)	420,718
7	(19)	146,256	17	(24)	58,795	19	(29)	582,442
8	(16)	136,941	16	(32)	82,960	17	(28)	441,845
9	(18)	120,685	25	(39)	211,356	34	(43)	709,617
10	(27)	197,192	7	(16)	33,305	30	(48)	761,176
11	(11)	154,507	5	(12)	51,190	30	(38)	590,302
12	(20)	243,078	7	(9)	37,000	35	(53)	879,613
13	(15)	215,945	5	(6)	50,489	32	(38)	579,615
14	(17)	185,266	5	(7)	33,694	36	(71)	1,141,089
15	(31)	423,297	5	(6)	32,592	28	(28)	658,176
16	(19)	249,092	3	(7)	63,120	35	(48)	867,896
17	(6)	220,305	2	(6)	41,290	30	(48)	875,160
18	(12)	360,784	4	(5)	33,572	29	(32)	402,632
19	(24)	542,684	3	(3)	16,700	25	(28)	389,990
20	(37)	785,605	3	(4)	21,131	6	(7)	70,935
21	(32)	435,764	3	(5)	18,995	14	(23)	509,782
22	(34)	424,927	1	(1)	5,060	14	(18)	302,882
23	(21)	343,148	2	(2)	11,815	13	(15)	165,174
24	(24)	379,712	4	(8)	89,415	9	(10)	108,608
25	(26)	422,271	1	(1)	4,400	8	(13)	89,234
26	(19)	215,533						
27	(21)	234,182						
28	(23)	182,672						
29	(4)	20,505						
30	(2)	12,491						
35	(1)	155						
37	(2)	1,515						
38	(1)	835						
39	(1)	755						
40	(2)	2,680						
41	(3)	7,560						
42	(3)	8,195						
43	(1)	1,380						
44	(1)	885						
45	(7)	37,854						
46	(34)	185,515	1	(1)	4,865			
47	(37)	202,315						
48	(26)	103,968						
49	(37)	151,815						
50	(53)	282,237						
51	(29)	137,110				1	(1)	7,330
52	(42)	178,874				1	(1)	5,503
53	(31)	100,710						
TOTAL	(858)	8,550,709		(350)	1,464,387		(685)	11,232,465

* Bracketed numbers are landings.

TABLE 81. Tanner crab length and width frequencies from the commercial catch, 2/29/72 - 7/5/72 and 12/8/72 - 3/15/73.

	Length *				Width **			
	1972		1973		1972		1973	
(mm)	No.	%	No.	%	No.	%	No.	%
75 - 79	1	0.03	14	0.50				
80 - 84	3	0.08	39	1.39				
85 - 89	26	0.67	78	2.78				
90 - 94	69	1.79	188	6.70				
95 - 99	198	5.12	309	11.01				
100 - 104	405	10.48	528	18.81	1	0.09	1	0.16
105 - 109	643	16.64	542	19.31	1	0.09	4	0.64
110 - 114	804	20.80	485	17.28	12	1.11	7	1.12
115 - 119	783	20.26	338	12.04	14	1.29	14	2.24
120 - 124	545	14.10	197	7.02	25	2.31	26	4.16
125 - 129	288	7.45	69	2.46	62	5.73	26	4.16
130 - 134	78	2.01	18	0.64	111	10.25	57	9.12
135 - 139	19	0.49	1	0.03	162	14.96	88	14.08
140 - 144	2	0.05	1	0.03	210	19.39	107	17.12
145 - 149	1	0.03			103	9.51	83	13.28
150 - 154					188	17.36	98	15.68
155 - 159					99	9.14	58	9.28
160 - 164					48	4.43	42	6.72
165 - 169					33	3.05	11	1.76
170 - 174					12	1.11	3	0.48
175 - 179					1	0.09		
180 - 184					1	0.09		
TOTAL	3,865	100	2,807	100	1,083	100	625	100

* Measured from eye notch to posterior center of carapace.

** Greatest width of shell including spines, at the approximate mid-point.

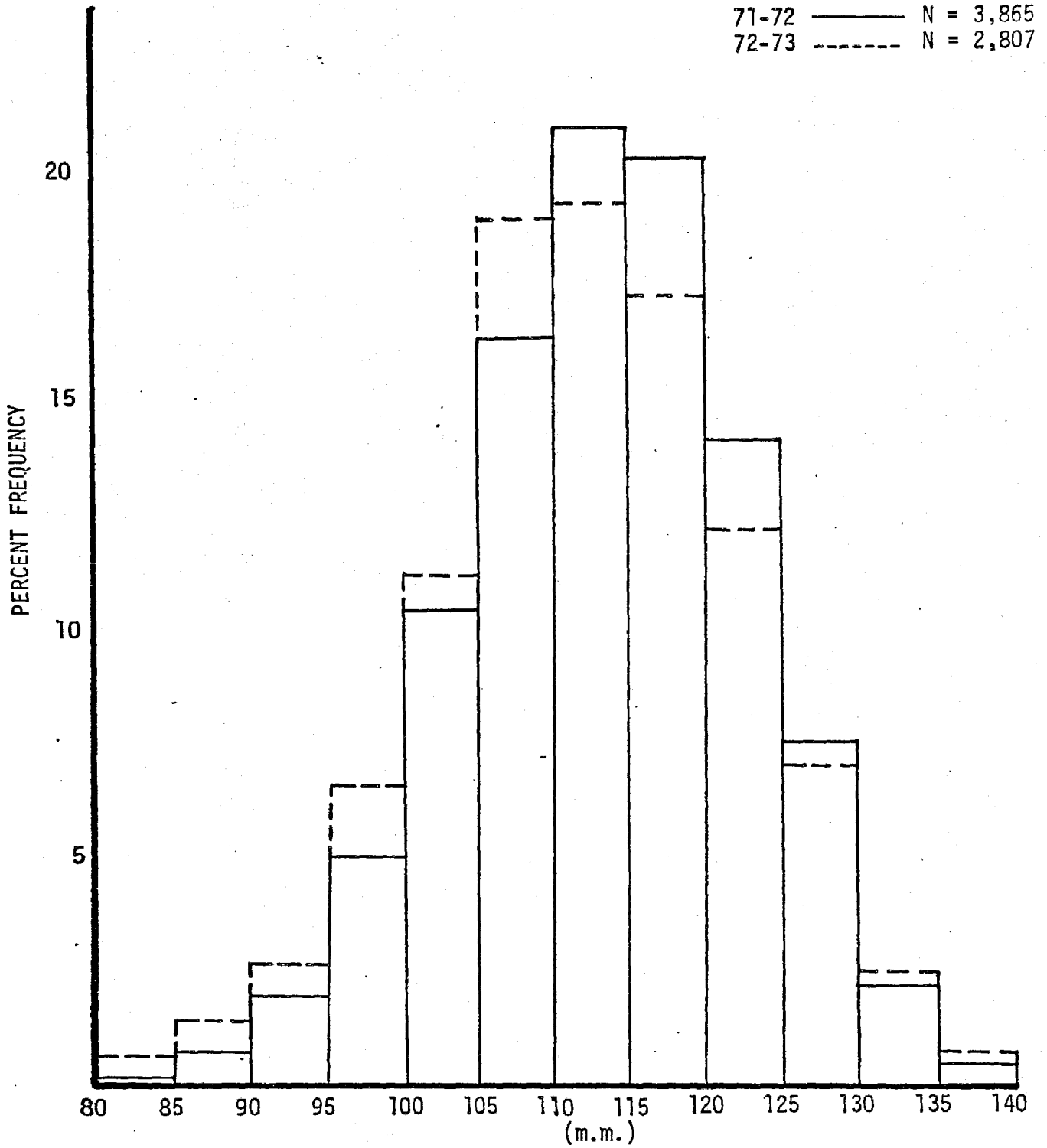

FIGURE 12. Tanner crab length frequencies from commercial catch, 2/29/72 - 7/5/72, and 12/8/72 - 3/15/73, landed in Cordova.

MISCELLANEOUS FISH AND SHELLFISH

Several operations harvested herring, herring spawn on kelp, razor clams, shrimp, bottomfish and troll salmon.

Herring

Herring were taken for bait and extraction of roe, and herring spawn on kelp was harvested in 1972 and 1973.

The spawn on kelp harvest decreased from 769,481 pounds in 1971 to 600,453 pounds in 1972, TABLE 82, primarily due to a more stringent requirement of processors rather than decreased effort or availability. A large increase in the harvest of herring for roe extraction in 1972 about doubled the catch from the previous year.

In 1973 the unlimited market for herring roe plus a large increase in price resulted in a catch of 6,991 tons, TABLE 83. The herring spawn on kelp totaled 306,358 pounds, TABLE 83.

The 1973 fishery began in a manner similar to 1972 with the purse seine fleet prospecting for herring in the Chamberlain Bay area and adjacent waters of Glacier Island outside the Eastern District closed area. Large vessels with acoustical gear reported large concentrations of herring at depths of about 50 fathoms in Port Fidalgo on April 10. Small herring schools were reported moving into shallow water from April 10 to 15, and the first spawning activity was reported to occur near Tatitlek Village on April 15. FIGURE 13 shows the average weekly temperatures from three thermographs in relation to observed herring spawning activity. The first observed spawning occurred when the water temperature was 39° F.

Aerial surveys were commenced on April 16 and revealed large concentrations of herring in most of the known spawning areas and some light spawning occurring near Bidarka Point in Port Fidalgo. Aerial surveys were continued on a daily basis and records compiled on prepared charts showed a large build-up of herring schools and a rapid expansion of spawning activity in previously used areas of known spawning grounds during the week beginning April 15. The herring spawn on kelp fishery was opened by emergency order at 6:00 a.m. on April 23 after several successive spawnings had occurred.

Purse seine fishermen discovered large concentrations of herring in Columbia Bay in the Northern District on April 18. Fishing success was excellent and a total of 3,166.3 tons were caught in four days after which the area was closed to fishing at 6:00 p.m. on April 21. After the closure the purse seine fleet (27 boats) dispersed to other areas of Prince William Sound in search of other herring spawning populations. On April 23 herring were discovered in Zaikoff and Rocky Bay on Montague Island. A total of 730 tons of herring were taken from Rocky Bay after which three bays on the north end of Montague Island were closed to herring fishing by emergency order at 6:00 a.m. April 28. After the closure of Montague Island bays the purse seine fishermen located herring in Zaikoff Bay on Montague Island and in Gibbon Anchorage on Green Island on May 7. The intensive fishery harvested 525 tons from Zaikoff Bay and 2,268 tons from Gibbon Anchorage before the bays were closed to fishing

by emergency order at 6:00 p.m. May 9. No other herring were located and the Prince William Sound area was closed to herring fishing at 6:00 a.m. May 12.

The herring season in Prince William Sound was re-opened on August 27 to provide a bait fishery for crab fishermen. The fall bait fishery was not successful and only 17,094 pounds of herring were caught, TABLE 82.

The 1973 herring catch of 6,991 tons compares to a 1972 harvest of 1,777 tons and the historical peak catch of 73,450 tons in 1938, FIGURE 14 and APPENDIX TABLE 20. Catches of recent years have been used primarily for the extraction of roe while catches made prior to 1960 were used principally for the production of oil and meal.

The herring spawn on kelp fishery which opened by emergency order on April 23 concentrated around Bidarka Point on the west entrance to Landlocked Bay. Some kelp was taken from Landlocked Bay and Tatitlek Narrows. Quality of kelp accepted was very stringent again this year and the harvest of 306,358 pounds was about one-half the poundage taken in 1972, APPENDIX TABLE 20.

FIGURE 15 shows the age distribution by percent of commercially taken herring fron northeastern Prince William Sound for the years 1971, 1972 and 1973. The successful year classes of 3, 4 and 5 year old herring in 1971 can be followed through the fishery which shows they have contributed substantially to the catch in 1972 and 1973. For example, the 3 year herring in 1971 are the 4 year herring in 1972, 5 year old herring in 1973, etc. When the herring reach 7 and 8 years of age natural mortality apparently increases rapidly and their contribution to the fishery is no longer significant.

FIGURE 16 shows the age distribution by percent for the 1973 herring catch. Catches from Rocky Bay and Green Island were predominately 3 year olds and are probably from the same stocks of herring. Columbia Bay catches are apparently from different herring stocks which shows an entirely different age pattern. The dominant year classes are 5 and 6 year fish but with a strong contribution of 3 and 4 year old herring. The 3,4 and 5 year old herring from this area will probably be the dominant year classes making up the 1974 catch.

The forecast for the future indicates a continued large market for herring sac roe and a local interest for approximately 700 - 1,000 tons of bait herring. The spawning stocks appear to be in healthy condition and general observations indicate large populations of immature herring during the summer and early fall.

TABLE 82. Herring and herring spawn on kelp harvest in pounds, by week, by statistical area, 1972.

	Herring							Herring Spawn on Kelp		
Week	221-10	221-40	221-50	221-60	222-10	222-40	Total	221-40	221-50	Total
16			2,455				2,455			
17		46,000				85,000	131,000			
18		168,000			65,175	1,953,450	2,186,625			
19		837,433	2,550		178,525	136,750	1,155,258	333,310	89,543	422,853
20		4,000	28,025				32,025	131,507	19,550	151,057
21			29,140				29,140	26,273	270	26,543
41	5,140						5,140			
42	1,070						1,070			
44	3,700			8,010			11,710			
TOTAL	9,910	1,055,433	62,170	8,010	243,700	2,175,200	3,554,423	491,090	109,363	600,453

TABLE 83. Herring and herring spawn on kelp harvest in pounds, by week, by statistical area, 1973.

	Herring				Herring Spawn on Kelp			
Week	221-60	222-10	227-20	Total	221-40	221-50	227-20	Total
16		6,332,695		6,332,695				
17		588,500	1,137,750	1,726,250	236,223	44,924		281,147
18			456,000	456,000	5,614	9,126		14,740
19			5,451,668	5,451,668				
20							10,269	10,269
21							202	202
38	17,094			17,094				
TOTAL	17,094	6,920,695	7,045,418	13,983,707	241,837	54,050	10,471	306,358

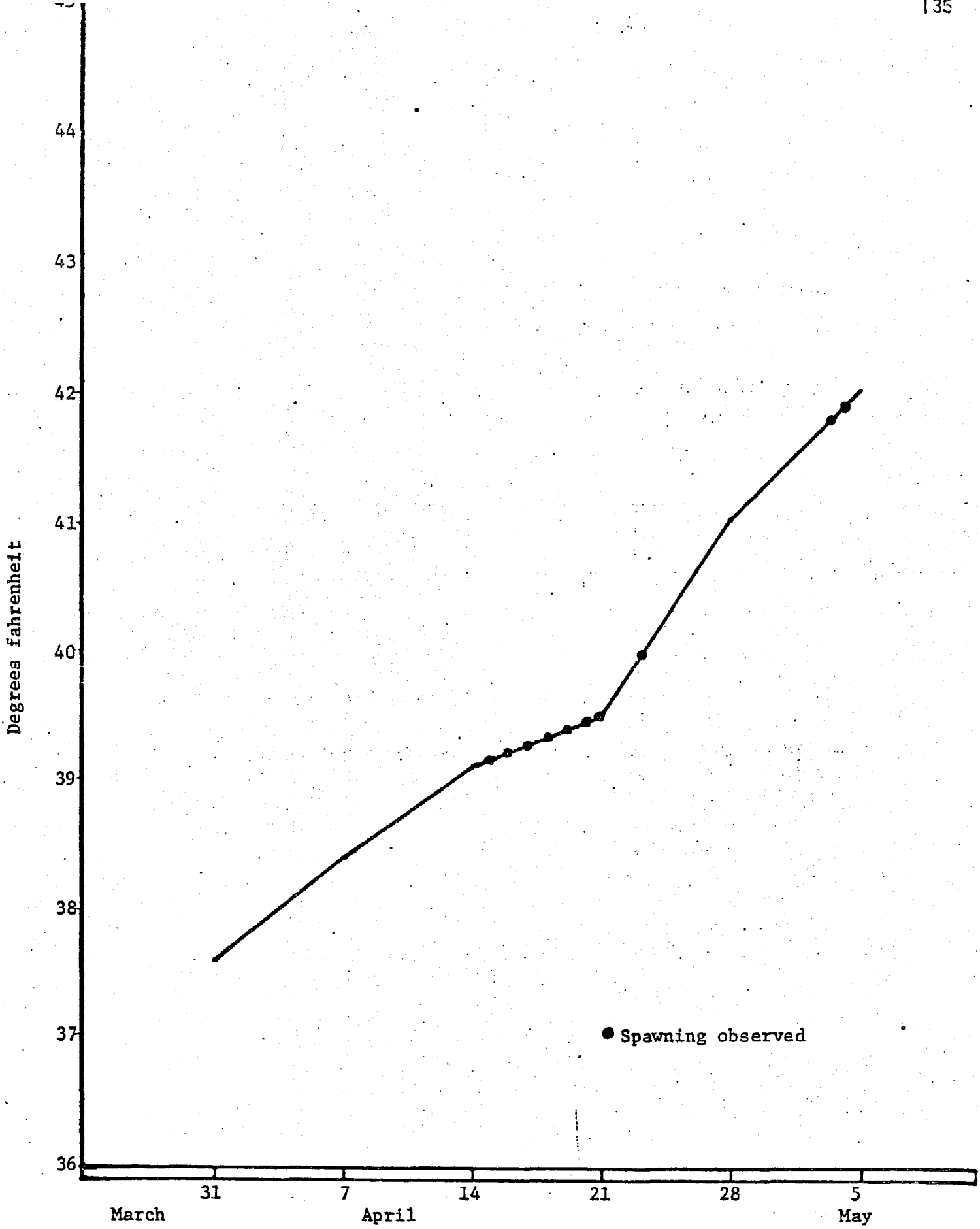

FIGURE 13. Average weekly water temperatures from two thermographs in Landlocked Bay and one at the Tatitlek Village dock with herring spawning observations by aerial survey in the Eastern district of Prince William Sound during March, April and May - 1973.

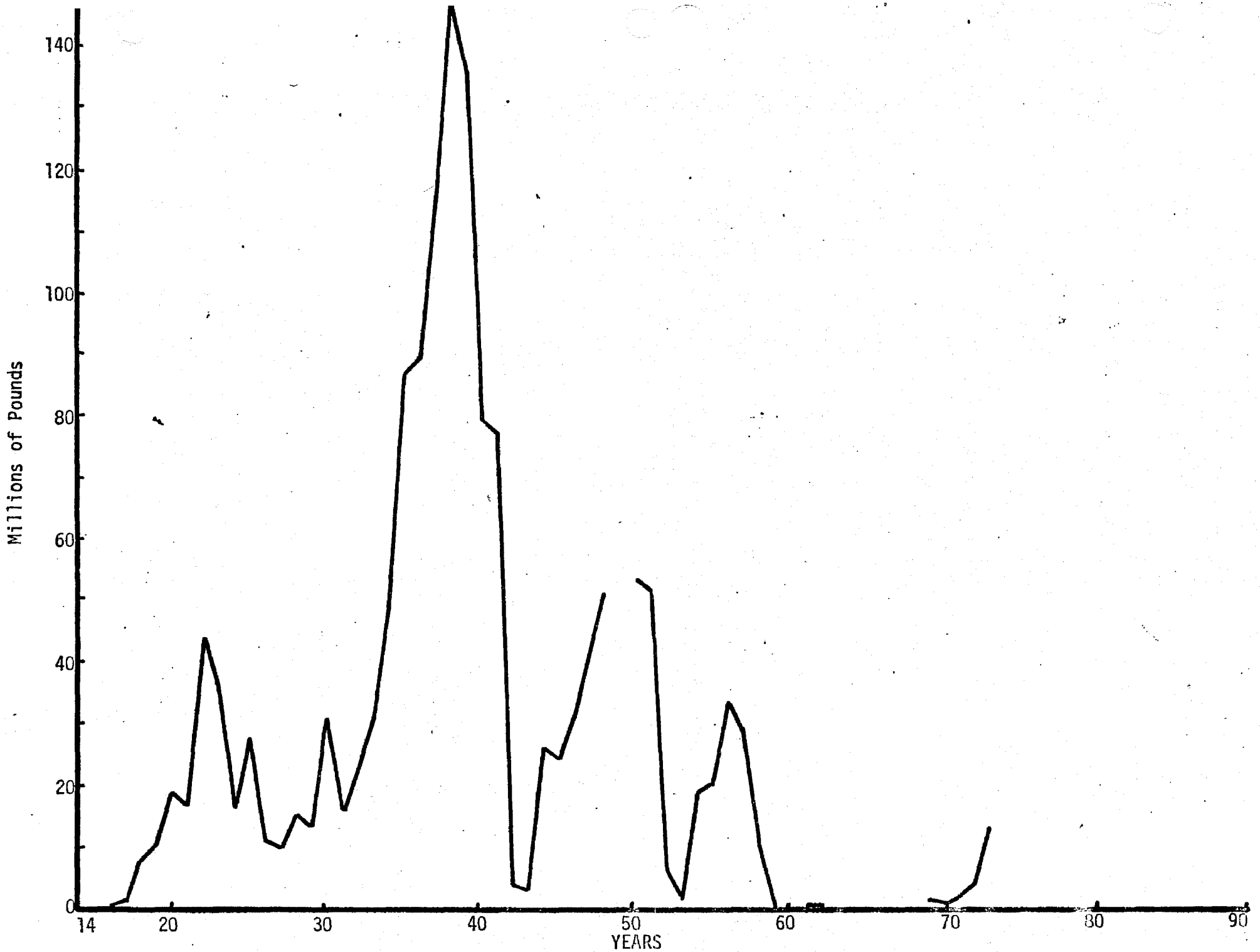

FIGURE 14. Herring catch from Prince William Sound from inception of the fishery to 1973.

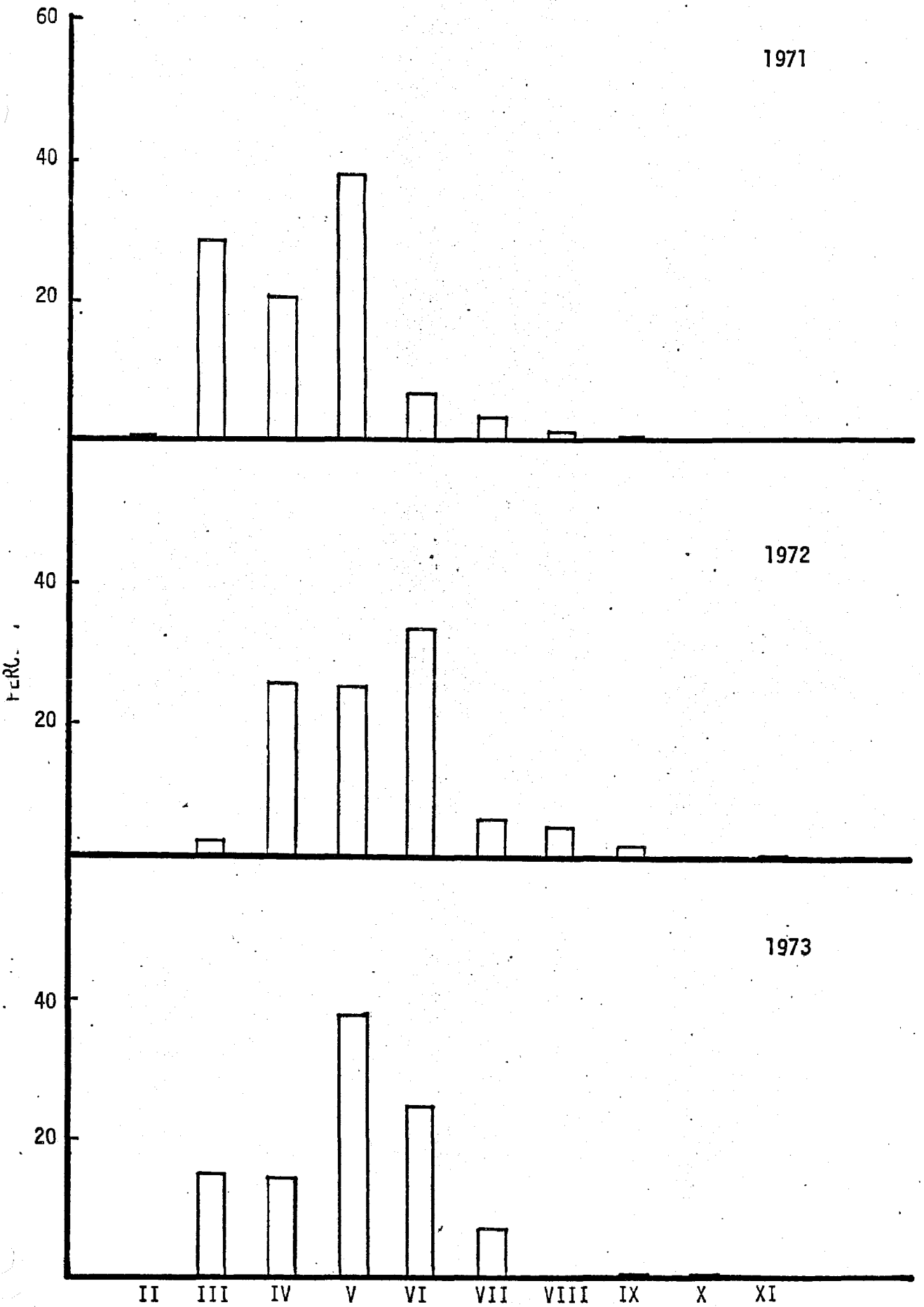

FIGURE 15. Age percent frequency of commercially caught herring from northeastern Prince William Sound, 1971, 1972 and 1973.

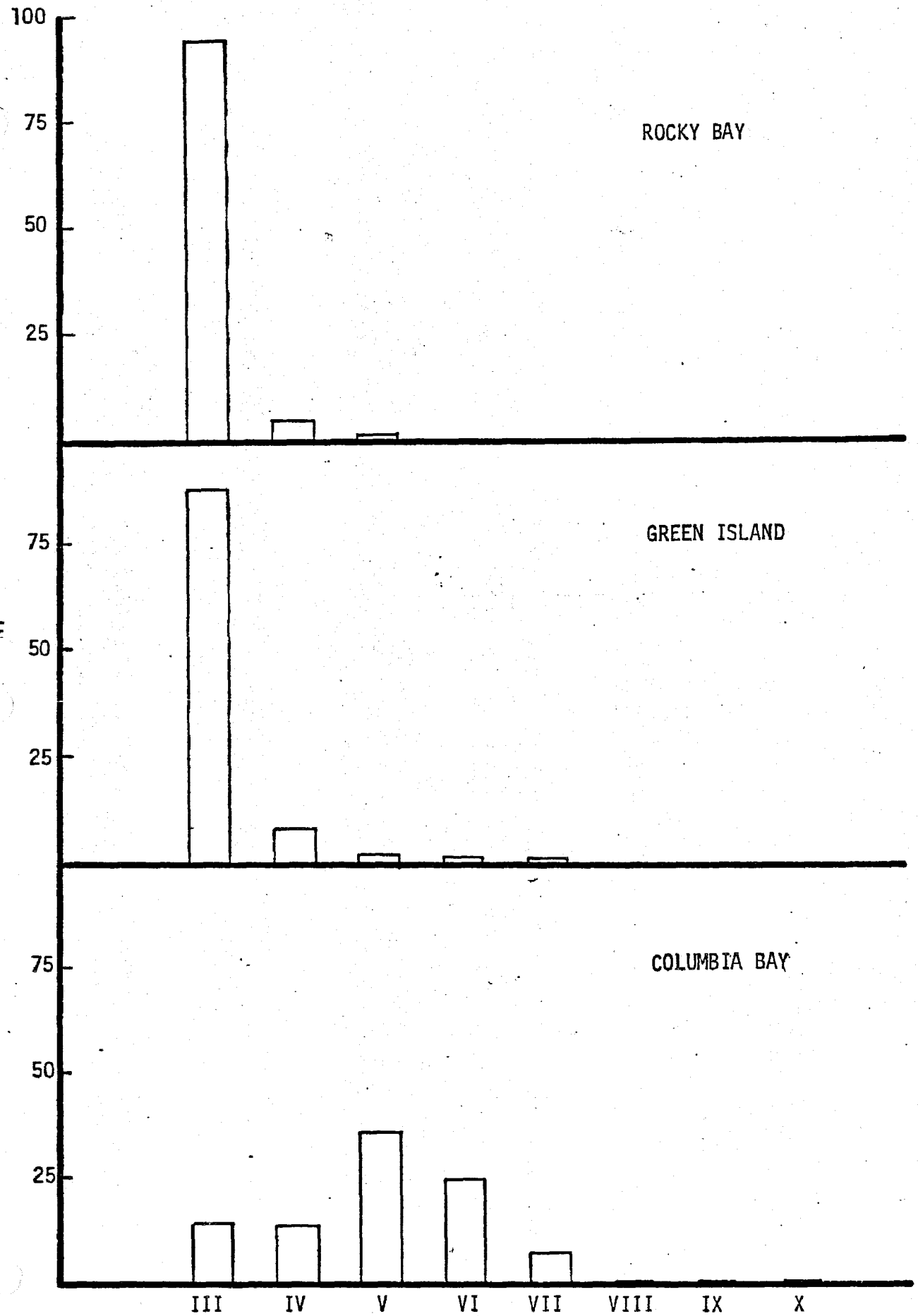

FIGURE 16. Age composition by percent of commercially caught herring from Rocky Bay, Green Island and Columbia Bay, 1973.

Razor Clams, Cockles and Snails

TABLE 84 shows the razor clam dig by week by stat area for 1972, and TABLE 85 shows the dig of razor clams and cockles for 1973. The majority of the dig was used as crab bait. APPENDIX TABLE 21 shows the historical razor clam case pack and dig.

A total of 645 pounds of cockle clams were sold as crab bait in 1973.

In 1972, St. Elias Ocean Products attempted to develop a market for the Neptunea pribiloffensis, marine snail, but was not successful. A total of 2,339 pounds in 1972 and 6,245 pounds in 1973 of snails, in the shell, were purchased from fishermen for fifty cents per pound and shipped frozen to Seattle markets, TABLE 88 and 89.

Shrimp

Each year a small shrimp pot fishery operates in northern Prince William Sound for spot shrimp which are sold on local fresh markets. In 1973 a total of 3,185 pounds, heads off, of pot shrimp were harvested.

During the last two years a couple of fishermen have been experimenting with trawls to take shrimp near Cordova. A total of 5,153 pounds in 1972 and 4,243 pounds in 1973 of whole shrimp were reported sold. Composition of the catch was reported by one of the fishermen to contain about 85 percent pink shrimp and about 15 percent sidestripe shrimp, TABLE 86.

Bottom Fish

Bottom fish harvested in 1972 and 1973 totaled 373,864 and 404,225 pounds, respectively, TABLES 87 and 89. All halibut, some sablefish and red snapper were used for human consumption, but bottom fish taken by trawl was sold for crab bait. A local freezer plant was constructed in Cordova in 1973 principally to handle bait for local crab fleets.

Troll Fishery

Some salmon are taken by troll gear each year and enter fresh fish markets. Troll salmon reported on fish tickets totaled 879 in 1972 and 2,223 in 1973.

Historical troll catches by species are shown in APPENDIX TABLE 12.

TABLE 84. Razor clam dig by statistical area, by week, 1972.

Week	Statistical Areas * 201-07	201-08	201-19	203-98	203-99	Total Pounds	Number Landings
5		(3) 180				180	3
8		(1) 20				20	1
10		(3) 125				125	3
12		(2) 150				150	2
13		(1) 55				55	1
15	(1) 165	(4) 430				595	5
16		(2) 168				168	2
17	(2) 610	(3) 325	(2) 251			1,186	7
18		(4) 534	(1) 235			769	5
19		(2) 250				250	2
20	(4) 820	(7) 1,127			(5) 700	2,647	16
21	(4) 960	(11) 2,238			(3) 1,080	4,278	18
22		(1) 125	(2) 215		(2) 289	629	5
23	(1) 276	(3) 181				457	4
25	(2) 372	(2) 442		(1) 33		847	5
26				(1) 245		245	1
27		(7) 1,174		(1) 396		1,570	8
29	(5)1226	(10) 1,189				2,415	15
30		(1) 27				27	1
31	(2) 195	(27) 4,353				4,983	29
32		(10) 1,082				647	10
33	(6) 837	(38) 5,135	(1) 42		(1) 66	5,815	46
34	(1) 19	(2) 301				320	3
35		(2) 144				144	2
36		(1) 165				165	1
37		(3) 445				445	3
39		(2) 440				444	2
40		(6) 489				489	6
TOTAL	5,480 (28)	21,294 (158)	743 (6)	674 (3)	2,135 (11)	30,326	206

* Bracketed numbers are landings.

TABLE 85. Razor clam and cockle dig by statistical area, by week, 1973.

Week	Razor Clam** Statistical Area 201-07	201-08	201-09	Total Pounds	Number Landings	Cockle 201-08
6		(3) 247		247	3	
8		(3) 166		166	3	
11		(1) 29		29	1	
14		(5) 311		311	5	
15		(4) 132		132	4	
16		(16) 915		915	16	
17		(7) 760		760	7	
18	(3) 106	(10) 1083		1189	13	
19	(1) 93	(23) 1944		2037	24	(1) 105
20	(1) 148	(8) 1106		1254	9	
21	(2) 223	(6) 716		939	8	
22	(7) 974	(23) 3380	(1) 130	4484	31	(3) 540
23	(4) 256	(17) 2342		2598	21	
24	(2) 249	(11) 1609		1858	13	
25	(1) 150	(6) 647		797	7	
26		(12) 2159		2159	12	
27		(18) 3530		3530	18	
28		(6) 1627		1627	6	
29		(9) 1462		1462	9	
30		(2) 229		229	2	
31		(18) 2854		2854	18	
33		(4) 379		379	4	
35		(4) 420		420	4	
37		(3) 192		192	3	
42		(2) 195		195	2	
50		(1) 55		55	1	
TOTAL	2,199 (21)	28,489 (222)	130 (1)	30,818	244	645 (4)

** Bracketed numbers are landings.

TABLE 86. Shrimp catches by area and gear from Prince William Sound, 1972 and 1973.

1972			1973		
Area	Gear	Pounds	Area	Gear	Pounds
203-12	Otter Trawl	292 1/	203-16	Pots	2,120
203-12	Beam Trawl	3,810 1/	203-25	Pots	1,065
203-99	Beam Trawl	1,051 1/	203-99	Trawl	4,243
203-15	Pots	2,934 2/			
203-16	Pots	540 2/			
TOTAL		8,627	TOTAL		7,428

1/ Species composition about 20 percent stripes and 80 percent pinks.

2/ Species mostly spots.

TABLE 87. Bottom fish catches by otter trawl, beam trawl and long line from Prince William Sound, 1972.

Area	Gear	Species	Pounds
221-20	Long line	Sablefish	842
222-30	"	"	356
224-10	"	"	4,646
224-20	"	"	77
224-40	"	"	18
226-10	"	"	16
226-20	"	"	350
226-50	"	"	86
227-10	"	"	22
Sub-Total			6,413
221-20	Beam Trawl	Sole	91
221-30	Otter Trawl	Rockfish - Red Snapper	32,185 *
221-20	Long Line	" "	10
221-40	"	" "	155
221-50	"	" "	255
222-30	"	" "	3,381
222-40	"	" "	2,424
223-30	"	" "	8
224-10	"	" "	777
224-20	"	" "	844
224-40	"	" "	11
226-10	"	" "	361
226-20	"	" "	973
226-50	"	" "	1,035
227-10	"	" "	120
Sub-Total			42,630
226-50	Long Line	Ling Cod	315
227-10	"	" "	70
Sub-Total			385
TOTAL			49,428 **

* Considerable amounts of flatfish also included in the total. Otter trawl catch used primarily for crab bait.

** In addition a total of 324,436 pounds of halibut were landed.

TABLE 88. Snail (Neptunea pribiloffensis) harvest by tanner crab pots from Prince William Sound, 1972.

Area	Pounds
201-04	112
201-32	1,295
201-37	25
201-61	560
203-95	347
TOTAL	2,339

TABLE 89. Bottomfish and snail catches by pots, otter trawl, beam trawl and long line from Prince William Sound, 1973.

Species	Pounds
Ling cod	655
Rockfish - Red Snapper	75,819
Sablefish	468
Grey cod	24,926
Flatfish, flounder, etc.	1,582
Halibut	294,530
Eel	247
Snails	6,245
TOTAL	404,225

COMMERCIAL LICENSE SALES

TABLE 90 and TABLE 91 presents a summary of commercial fishing licenses and receipts for 1972 and 1973 respectively. Licenses sold in 1972 show a decided decrease from the previous year due primarily to a closed purse seine season and a drop in the sale of purse seine gear licenses.

License sales showed a marked increase in 1973 which was promoted to some extent by limited entry publicity. Numbers of licenses sold showed an increase in every type including commercial, vessel and gear - exceeding all previous years of record.

APPENDIX TABLE 22 compares commercial fishing license statistics from 1960.

TABLE 90. Summary of commercial fishing licenses and receipts, 1972.

Type of License	No. Licenses Issued Resident	Nonresident	Total Issued	Value Resident	Nonresident	Total Value
Commercial	876	305	1,181	$ 8,760	$ 9,150	$17,910
Vessel	708	205	913	7,080	6,150	13,230
Drift Gill Net	456	166	622	6,825	7,455	14,280
Purse Seine	47	2	49	2,340	300	2,640
Set Gill Net	41	8	49	505	360	865
Clam Shovel	124	15	139	620	225	845
Shellfish Pots	100	5	105	1,815	225	2,040
Troll	27	3	30	405	135	540
Long Line	78	5	83	1,950	250	2,200
Otter Trawl	4	0	4	200	0	200
Beam Trawl	2	0	2	100	0	100
Transfer fees						390
TOTAL				$30,600	$24,250	$55,240

TABLE 91. Summary of commercial fishing licenses and receipts, 1973.

Type of License	No. Licenses Issued Resident	Nonresident	Total Issued	Value Resident	Nonresident	Total Value
Commercial	1,102	479	1,581	$33,060	$ 4,790	$37,850
Vessel	755	207	962	7,550	6,210	13,760
Drift Gill Net	549	160	709	8,235	7,200	15,435
Purse Seine	230	46	276	11,500	6,900	18,400
Set Gill Net	40	6	46	600	270	870
Clam Shovel	135	26	161	675	390	1,065
Shellfish Pots	135	16	151	2,445	1,440	3,885
Troll	27	5	32	405	225	630
Long Line	148	10	158	3,700	500	4,200
Otter Trawl	2	0	2	100	0	100
Beam Trawl	3	0	3	150	0	150
Transfer fees						590
TOTAL				$68,420	$27,925	$96,935

PERSONNEL

The Commercial Fisheries Division employed eight permanent employees in 1972 and 1973; 21 seasonal employees in 1972 and 19 in 1973 in the Cordova management area. Following is a list of personnel, general duty assignments and dates of employment.

Permanent Employees

Ralph B. Pirtle	Area Management Biologist
PeterJ. Fridgen	Assistant Area Management Biologist
Richard Nickerson	Research Biologist, Project Leader
Kenneth Roberson	Research Biologist, Project Leader
John D. Solf	Research Biologist, Project Leader
John M. Jackson	Fisheries Technician III
Jeannette Bailey	Clerk - Stenographer
Janice Shaw	Clerk - Typist

Seasonal Employees - 1972

Name		Assignment	Dates of Employment
Michael Anderson	*	Miles Lake Tagging	5/22 - 9/11
Steve Boughton	*	Wood Canyon Tagging	6/12 - 9/7
Timothy Brown	*	Miles Lake Tagging	5/22 - 8/28
Tom Crass	*	Wood Canyon Tagging	5/21 - 8/17
Ruth Croxton	*	Subsistence Fishery - Chitina	5/30 - 7/23
Al Curtis	*	Wood Canyon Tagging	5/21 - 8/10
Ellen Dettinger		Fish Ticket Statistician	4/17 - 10/13
Joseph Fortier		Coghill & Shrode Creek Stations	6/20 - 9/2
Dave Gaddis	*	Wood Canyon Tagging	5/21 - 8/17
Mike Hatch	*	Wood Canyon Tagging	5/27 - 6/14
Kathleen Helkenn	*	Subsistence Fishery - Chitina	7/21 - 8/15
Barbara Jensen		Subsistence Fishery - Cordova	5/2 - 6/23
Samuel Krogstad		Eshamy Weir Station	4/17 - 9/16
Dan McDaniel		Scale Sampler - Cordova	5/30 - 7/14
Roberta McLeod	*	Glennallen Office	6/16 - 9/1
Steve Nelson		Coghill & Shrode Creek Stations	6/20 - 9/2
Sharon Olson	*	Subsistence Fishery - Chitina	5/30 - 8/14
Donna Platt		Subsistence Fishery - Cordova	4/27 - 4/28
Angus Robertson	*	Gulkana Tower	6/1 - 8/21
Dave Scheidt	*	Wood Canyon Tagging	5/30 - 8/21
Robert Zorich	*	Miles Lake Tagging, Glennallen Office	4/21 - 9/24
	*	Glennallen Office	10/24 - 12/15

* Glennallen projects under the supervision of Kenneth Roberson.

Seasonal Employees - 1973

Name	Assignment	Dates of Employment
David Adams	* Miles Lake Tagging	6/4 - 8/31
Michael Anderson	* Miles Lake Tagging	4/16 - 7/27
Steve Boughton	* Baird Canyon Recovery Site	4/12 - 6/5
Ellen Dettinger	Fish Ticket Statistician	4/18 - 10/12
Louis Dunlap	Coghill & Shrode Creek Stations	6/19 - 8/14
Mike Eames	* Gulkana Tower	5/31 - 8/24
Gail Foode	Fish Scale Sampler - Cordova	5/30 - 8/15
James Garcia	Coghill & Shrode Creek Stations	6/19 - 8/14
Kathleen Helkenn	* Subsistence Fishery - Chitina	5/31 - 8/15
Charles Kellogg	* Egg Box - Paxson	8/30 - 9/24
Samuel Krogstad	Eshamy Weir Station	5/1 - 9/14
Roberta McLeod	* Glennallen Office	5/21 - 9/4
Robert Mielke	* Baird Canyon Recovery Site	5/15 - 7/21
Sharon Olson	* Subsistence Fishery - Chitina	5/29 - 8/15
Gary Sies	* Miles Lake Tagging	5/15 - 7/6
William Simonsma	* Baird Canyon Recovery Site	5/20 - 7/21
Robert Studstill	* Gulkana Tower	7/6 - 7/23
Karen Tony	* Subsistence Fishery - Chitina	5/31 - 8/15
Robert Zorich	* Miles Lake Tagging	4/16 - 10/24

* Glennallen projects under the supervision of Kenneth Roberson.

TABLE 92. Wholesale value of all fishery products from the Cordova Area, by species, 1972. 1/

Species	Type Product	No. of Salmon	No. of Pounds	Cases 48-1 lb.	48-1/2 lb.	48 1/4 lb.	12-4 lb.	48-6 1/2 oz.	24-19 oz.	48-7 1/2 oz.	Wholesale Value
King Salmon	Canned	894	27,079		284	44					$ 11,730.28
	Frozen	27,255	786,076								534,160.14
Red Salmon	Canned	925,536	5,943,425	22,843	151,418	36,541	451				6,857,968.19
	Frozen	8,564	56,401								36,059.34
Coho Salmon	Canned	71,705	543,590	2,157	2,270	3,644	1,047				342,104.40
	Frozen	86,699	603,297								380,405.07
Pink Salmon	Canned	76,171	329,364	688	1,712		1,966				156,575.07
	Frozen	6,131	27,568								5,254.80
Chum Salmon	Canned	52,866	454,468								246,774.24
	Frozen	4,074	36,054								13,516.48
Dungeness Crab	Frozen		579,779*								590,104.98
Tanner Crab	Canned							4,402			269,407.00
	Frozen		2,094,793								1,549,909.72
King Crab	Frozen		49,142								643,218.48
Razor Clams	Canned								41	38	3,160.00
	Food		369								557.00
	Bait		10,385								4,633.62
Shrimp	Frozen & Fresh		5,075								9,595.30
Herring	Bait		34,040								2,747.80
	Spawn on Kelp		364,257								563,552.50
Salmon eggs	Salted-Food		267,500								404,623.35
Halibut	Frozen, Dressed		126,181								67,504.26
Black Cod	Fresh Fillets		132								85.80
Red Snapper	Fresh Frozen		5,871								2,979.90
Bottom Fish	Bait		14,430								2,164.50
Sole	Fresh		47								117.50
TOTAL		1,259,895	12,359,323	25,688	155,684	40,229	3,464	4,402	41	38	$12,698,909.72

1/ Data from annual reports etc.
* Net weight.

TABLE 93. Wholesale value of king salmon from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type Product	Number of Fish	Pounds of Fish	Cases 48 1/2 lb.	Cases 48 1/4 lb.	Wholesale Value
Alaska Pkrs. Assoc. *	8	Frozen	4,440	132,811			$ 107,709.72
Morpack Inc.	30	Canned	270**	8,624**	77		2,464.00
		Frozen	7,276	224,845			182,400.00
NEFCO	107	Canned	308**	9,856**	88		2,640.00
		Frozen	7,520	232,546			118,808.31
North Pacific Processors	75	Frozen	4,190	92,181			37,794.00
Ocean Harvest Pkg. Co.	2	Kippered Canned	23	738	6		318.00
Odiak Smokeries	1	Canned Kippered	216	5,400	90		5,000.00
St. Elias Ocean Prod.	75	Canned	70**	2,240**	23	33	1,157.58
		Frozen	3,829**	103,693***			87,448.11
Whitney Fidalgo**** Seafoods, Inc.	30	Canned	7	221		11	150.70
TOTAL			28,149 2/	813,155	284	44	$ 545,890.42

1/ Data from annual reports of operators.

2/ Fish tickets showed a catch of 22,469.

* Kings custom canned by NEFCO.

** Estimated.

*** Net weight.

**** Kings custom canned by St. Elias Ocean Products.

TABLE 94. Wholesale value of red salmon from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type Product	Number of Fish	Pounds of Fish	Cases 48 1#	Cases 48 1/2#	Cases 48 1/4#	Cases 12 4#	Wholesale Value
Alaska** Packers Assoc.	8	Canned	152,974	959,210	1,509	24,668			$ 935,550.00
Morpac** Inc.	30	Canned	136,960*	931,331	1,585	24,464	90		900,504.00
		Frozen	3,985*	27,097					20,395.00
NEFCO	107	Canned	175,266	1,121,783	4,750	77,642			2,944,706.45
		Frozen	2,615	16,737					9,946.29
North Pacific Proc.	75	Canned	179,988	1,137,161	14,999				580,431.00
Ocean Harvest Pkg. Co.	2	Canned-Kippered	42	279		2			106.00
Sitak Smokeries	1	Canned-Kippered	211	1,049		20			750.00
St. Elias Ocean Prod.	75	Canned	224,250*	1,435,201		18,109	30,303	451	1,166,658.20
		Frozen	1,964*	12,567					5,718.05
Whitney Fidalgo Seafoods Inc.**	30	Canned	55,845*	357,411		6,513	6,148		329,262.54
TOTAL			934,100 2/	5,999,826	22,843	151,418	36,541	451	$ 6,894,027.53

1/ Data from Annual Reports of Operators.

2/ Fish tickets showed a catch of 978,830.

* Estimated.

** Canned production custom packed.

TABLE 95. Wholesale value of coho salmon from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type Product	Number of Fish	Pounds of Fish	Cases 48 1#	Cases 48 1/2#	Cases 48 1/4#	Cases 12 4#	Wholesale Value
Alaska Packers Assoc.	8	Canned	747	5,774	23	95			$ 3,657.70
Morpac Inc.	30	Canned	124*	931*	12			4	784.00
		Frozen	49,743*	373,069					275,122.00
NEFCO	107	Canned	1,294*	9,708*	55	224			8,660.36
		Frozen	25,572*	191,789					100,845.32
North Pacific Proc.	75	Canned	16,021*	120,154*	2,067				66,216.00
		Frozen	15,339*	63,778**					17,857.00
Ocean Harvest Pkg. Co.	2	Hard Smoked	26	234					183.75
Elias Ocean Prod.	75	Canned	22,033*	169,661		1,688	3,171	687	129,535.38
		Frozen	21,617*	166,450					87,426.07
Whitney*** Fidalgo Seafoods Inc.	30	Canned	5,888*	45,339		263	473	356	32,221.89
TOTAL			158,404 2/		2,157		3,644		$722,509.47
				1,146,887		2,270		1,047	

1/ Data from Annual Reports of Operators.

2/ Fish tickets showed 124,274 coho.

* Estimated.

** Net weight.

*** Cohos custom canned by St. Elias Ocean Products.

TABLE 96. Wholesale value of pink salmon from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type Product	Number of Fish	Pounds of Fish	Cases 48 1#	Cases 48 1/2#	Cases 12 4#	Wholesale Value
Alaska Packers Assoc.	8	Canned	9,005	39,538	145	344		$ 15,146.55
Morpac Inc.	30	Canned	2,961*	12,998	38		117	7,209.00
		Frozen	4,867*	21,368				3,263.00
NEFCO	107	Canned	6,042	26,523	246	583		25,682.50
		Frozen	1,264	6,200				1,991.80
North Pacific Proc.	75	Canned	5,652	19,783	259			7,800.00
St. Elias Ocean Prod.	75	Canned	35,395*	155,384		460	1,083	58,626.48
[illegible]tney** [illegible]lgo Seafoods [illegible]nc.	30	Canned	17,116	75,138		325	766	42,110.54
TOTAL			82,302	356,932	688	1,712	1,966	$161,829.87

1/ Data from Annual Reports of Operators.

2/ Fish tickets showed 56,952 pinks.

* Estimated.

** Pinks custom canned by St. Elias Ocean Products.

TABLE 97. Wholesale value of chum salmon from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type Product	Number of Fish	Pounds of Fish	Cases 48 1#	Cases 48 1/2#	Cases 12 4#	Wholesale Value
Alaska Packers Assoc.	8	Canned	9,605	83,747	912	250		$ 41,039.68
Morpac Inc.	30	Canned	2,724*	23,695	294		32	12,957.00
		Frozen	2,261*	19,673				8,116.00
NEFCO	107	Canned	7,004	60,939	1,797	494		80,894.88
		Frozen	1,768	15,988				5,276.73
North Pacific Proc.	75	Canned	4,705	35,291	526			13,886.00
St. Elias Ocean Prod.	75	Canned	17,538	152,577		67	1,299	48,768.54
		Frozen	45	393				123.75
:ney** Fidalgo foods Inc.	30	Canned	11,290	98,219		60	1,179	49,228.14
TOTAL			56,940	490,522	3,529	871	2,510	$260,290.72

1/ Data from Annual Report of Operators.

2/ Fish tickets showed 45,942 chums.

* Estimated.

** Chums custom canned by St. Elias Ocean Products.

TABLE 98. Wholesale value of Dungeness, tanner and king crab from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type of Product	Pounds Net Wt. Finished Product	48 6 1/2 oz.	Wholesale Value
Morpac Inc.	30	Dungeness, Whole, Frozen	156,209		$ 156,209.00
		Dungeness, Sections, Frozen	70,138		87,672.00
		Tanner, Sections, Frozen	250,883		105,371.00
North Pacific Proc.	75	King, Sections, Frozen	29,555		31,032.00
		Dungeness, Whole, Frozen	54,483		51,758.00
		Dungeness, Sections, Frozen	78,401		78,401.00
		Tanner, Whole, Frozen	529,021		264,510.00
		Tanner, Sections, Frozen	153,065		376,776.00
Pt. Chehalis Packers	85	Tanner, Canned		4,402	269,407.00
		Tanner, Sections, Frozen	555,444		158,857.00
		King, Sections, Frozen	453		342.00
St. Elias [illegible]an Prod.	75	King, Whole, Frozen	438		306.60
		King, Sections, Frozen	15,066		12,045.90
		King, Meat, Frozen	3,630		9,387.00
		Dungeness, Whole, Frozen	148,371		158,855.42
		Dungeness, Sections, Frozen	72,177		57,209.56
		Tanner, Whole, Frozen	1,958		979.00
		Tanner, Sections, Frozen	297,732		80,724.22
		Tanner, Meat, Frozen	306,690		562,692.50
TOTAL			2,723,714	4,402	$2,462,535.20

1/ Data from Annual Reports of Operators.

TABLE 99. Wholesale value of miscellaneous fish products from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type of Product	Pounds Net Wt. Finished Product	Cases 24 19 oz.	Cases 48 7 1/2 oz.	Wholesale Value
Harold Butler	2	Shrimp, Frozen, Tails	370			$ 925.00**
		Shrimp, Frozen, Whole	540			928.80**
Channel Pkg. Co.	2	Razor Clams, Canned, Whole		41	15	2,240.00
		Razor Clams, Canned, Minced			23	920.00
Tracy Jones Jr.	3	Herring, Spawn on Kelp	9,434			16,037.80
Tom Lawrence	2	Black Cod, fresh fillets	132			85.80
		Red Snapper, fresh fillets	296			192.40
MNW Co.	?	Herring, Spawn on Kelp	20,000			26,000.00
Morpac c.	30	Salmon Eggs, food	44,862			58,320.60
		Halibut, dressed, Frozen	10,195			8,156.00
		Herring, bait	29,035			2,322.80
		Razor Clams, bait	4,049			1,538.62
		Bottomfish, bait	14,430			2,164.50
MSP Co.	2	Herring, Spawn on Kelp	22,000			31,000.00
M/V Eris Y	2	Shrimp, Frozen Tails	1,324			3,310.00
NEFCO	107	Salmon Eggs, food	102,703			122,648.75
		Herring, Spawn on Kelp	73,143*			109,714.50
		Halibut, dressed, Frozen	7,605			5,158.26
North Pacific Proc.	75	Salmon Eggs, food	44,625			86,559.00
		Halibut, dressed Frozen	40,565			20,282.00
Carl Olsen	1	Razor Clams, Fresh	369			557.00
P&R Fisheries	3	Herring, Spawn on Kelp	3,400			7,200.00
Pt. Chehalis Packers	85	Herring, bait	5,005			425.00
		Razor Clams, bait	486			170.00
St. Elias Ocean Prod.	75	Salmon Eggs, food	75,310			137,095.00
		Razor Clams, bait	5,850			2,925.00

TABLE 99, cont. Wholesale value of miscellaneous fish products from the Cordova Area by Company, 1972. 1/

Name of Company	Peak No. Employees	Type of Product	Pounds Net Wt. Finished Product	Cases 24 19 oz.	Cases 48 7 1/2 oz.	Wholesale Value
Sebastian Stuart Fish Co.	10	Herring, Spawn on Kelp	63,934*			$ 115,081.20
Connie Taylor	1	Shrimp, Whole, Fresh	771			1,326.50
		Sole, fresh	47			117.50
John M. Totemoff	1	Shrimp, Frozen Tails	2,070*			3,105.00
Whittier Marina		Halibut, dressed, Frozen	67,816			33,908.00**
		Red Snapper	5,575			2,787.50**
Whitney Fidalgo Foods Inc.	65	Herring, Spawn on Kelp	172,346			258,519.00
TOTAL			828,287			$1,061,721.53

1/ Data from Annual Report of Operators.

* Raw weight.

** Estimated.

APPENDIX TABLE 1. Numbers and value to fishermen of salmon landed in the Cordova area, 1951 to present. 1/

Year	Item	King	Red	Coho	Pink	Chum	TOTAL
1951	Number	21109	663599	248360	802998	549255	2285321
	Value	$ 84836	$ 729959	$248360	$ 321199	$302090	$1686444
1952	Number	29466	1210640	228512	2167840	550754	4187212
	Value	$122284	$1392236	$239938	$ 899654	$313930	$2968042
1953	Number	12296	621532	66878	1996579	352760	3050045
	Value	$ 51028	$ 776915	$ 70222	$ 828580	$201073	$1927818
1954	Number	15765	1105878	250341	12286	6344	1390614
	Value	$ 65425	$1382348	$225307	$ 5099	$ 3616	$1681795
1955	Number	20563	683750	228904	27072	4676	964965
	Value	$ 85336	$ 854688	$240349	$ 11235	$ 2665	$1194273
1956	Number	12341	738348	197582	4526585	507258	5982114
	Value	$ 51215	$ 996770	$217340	$2036963	$304355	$3606643
1957	Number	9190	637247	107081	650869	706888	2111275
	Value	$ 38139	$ 885773	$117789	$ 292891	$448874	$1783475
1958	Number	19078	345110	125367	6298828	687448	7475831
	Value	$110175	$ 479703	$137904	$2834473	$436529	$3998784
1959	Number	11357	327166	191942	1175	67	531707
	Value	$ 68710	$ 458032	$211136	$ 529	$ 43	$ 738450
1960	Number	10321	430733	236934	1842375	382177	2902540
	Value	$ 64093	$ 633177	$272474	$ 884340	$259880	$2113964
1961	Number	8899	643090	188198	2289435	222058	3351680
	Value	$ 55263	$ 964635	$235248	$1098929	$150999	$2354075
1962	Number	16872	784535	248018	6544961	872373	8466759
	Value	$104775	$1216029	$334824	$3403380	$663003	$5722011
1963	Number	11659	414184	321797	5250116	933327	6931083
	Value	$ 68380	$ 616306	$448907	$2094796	$759495	$3987884
1964	Number	12855	753727	335671	4190053	521773	5814079
	Value	$ 77671	$1168126	$614278	$1715827	$401765	$3977667
1965	Number	16361	939522	137440	2387256	199159	3679738
	Value	$ 97086	$1494122	$193790	$ 775190	$118599	$2678787
1966	Number	11238	1133025	182397	2719902	429767	4476329
	Value	$ 73071	$2000696	$271406	$1058368	$304550	$3708091
1967	Number	10731	549091	213875	2608269	262870	3644836
	Value	$ 67898	$ 993196	$378131	$1728891	$266182	$3434298
1968	Number	12516	727174	314827	2452362	351033	3857912
	Value	$ 80603	$1380467	$626285	$1415072	$371049	$3873476
1969	Number	16514	1021592	89102	4828733	322728	6278669
	Value	$133763	$1930809	$202083	$2610123	$452620	$5329398
1970	Number	19482	1244309	249209	2785014	230366	4528380
	Value	$157804	$2351744	$605578	$1303386	$206800	$4625312

APPENDIX TABLE 1., cont. Numbers and value to fishermen of salmon landed in the Cordova area, 1951 to present. 1/

Year	Item	King	Red	Coho	Pink	Chum	Total
1971	Number	20142	741945	327697	7312730	579552	8982066
	Value	$174315	$1570777	$660044	$4166059	$529569	$7100764
1972	Number	23003	976115	124670	57090	46088	1226966
	Value	$273288	$2175727	$332028	$ 43794	$ 56496	$2881333
1973	Number	22638	473044	199019	2065844	740017	3500562
	Value	$353363	$2396488	$667445	$3008926	$2537455	$8963677

1/ From 1951 - 1959 values calculated from "Alaska Commercial Salmon Catch Statistics, Statistical Digest No. 50, U. S. Fish and Wildlife Service, Bureau of Commercial Fisheries, 1960, and from Bureau of Commercial Fisheries Annual Management Reports. Data from 1960 on from Alaska Department of Fish and Game records.

APPENDIX TABLE 2. Prices paid to fishermen for salmon, 1934 to present.* 1/

Year	King	Red	Coho	Pink	Chum
1934 2/	$1.00 each	$0.2750 each		$0.05 each	
1935	$1.00 each	$0.30 each		$0.05 each	
1940	$1.50 each	$0.35 each	$0.25 each	$0.06 each	$0.06 each
1942	$1.99 each	$0.535 each	$0.428 each	$0.107 each	$0.1284 each
1943	$1.99 each	$0.535 each	$0.428 each	$0.107 each	$0.1284 each
1944	$1.99 each	$0.535 each	$0.428 each	$0.107 each	$0.1284 each
1945	$1.99 each	$0.535 each	$0.428 each	$0.107 each	$0.1284 each
1946	$2.18 each	$0.5885 each	$0.4708 each	$0.135 each	$0.165 each
1947	$2.35 each	$0.61 each	$0.48 each	$0.15 each	$0.20 each
1948	$2.55 each	$0.75 each	$0.60 each	$0.25 each	$0.30 each
1949	$3.25 each	$0.80 each	$0.75 each	$0.30 each	$0.40 each
1950	$3.00 each	$0.80 each	$0.75 each	$0.30 each	$0.40 each
1951	$4.00 each	$1.10 each	$1.00 each	$0.40 each	$0.55 each
1952	$4.15 each	$1.15 each	$1.05 each	$0.415 each	$0.57 each
1953	$4.15 each	$1.25 each	$1.05 each	$0.415 each	$0.57 each
1954	$4.15 each	$1.25 each	$0.90 each	- -	- -
1955	$4.15 each	$1.25 each	$1.05 each	$0.415 each	$0.57 each
1956	$4.15 each	$1.35 each	$1.10 each	$0.45 each	$0.60 each
1957	$4.15 each	$1.39 each	$1.10 each	$0.45 each	$0.635 each
1958	$0.21/lb.	$1.39 each	$1.10 each	$0.45 each	$0.635 each
1959	$0.22/lb.	$1.40 each	$1.10 each	$0.45 each	$0.635 each
1960	$0.23/lb.	$1.47 each	$1.15 each	$0.48 each	$0.68 each
1961	$0.23/lb.	$1.50 each	$1.25 C. R. $1.15 P.W.S.	$0.48 each	$0.68 each
1962	$0.23/lb.	$1.55 each	$1.35 C. R. $1.25 P.W.S.	$0.52 each	$0.76 each
1963	$0.23/lb.	$0.24/lb.	$0.15/lb.	$0.105 lb.	$0.875 lb.
1964	$0.23/lb.	$0.27/lb.	$0.15/lb.	$0.105 lb.	$0.875 lb.
1965 3/	$0.23/lb.	$0.27/lb.	$0.15/lb.	$0.0984 lb.	$0.0794 lb.
1966	$0.23/lb.	$0.27/lb.	$0.16/lb.	$0.1024 lb.	$0.0824 lb.
1967 4/	$0.23/lb.	$0.28/lb.	$0.17/lb.	$0.1048 lb.	$0.0838 lb.
1968 4/	$0.23/lb.	$0.28/lb.	$0.19/lb.	$0.1048 lb.	$0.0838 lb.
1969 4/	$0.30/lb.	$0.30/lb.	$0.28/lb.	$0.0920 lb.	$0.1126 lb.
1970 4/	$0.30/lb.	$0.30/lb.	$0.30/lb.	$0.1170 lb.	$0.0955 lb.
1971 4/	$0.36	$0.32/lb.	$0.225 C. R. $0.16 P.W.S.	$0.1203 lb.	$0.0983 lb.
1972 5/	$0.40/lb.	$0.35/lb.	$0.16 P.W.S. $0.225 C. R. $0.325 C. R.	$0.1725 lb.	$0.13825 lb.
1973 5/	$0.50/lb.	$0.7005/lb.	$0.16 P.W.S. $0.65 C. R.	$0.3625 lb.	$0.36 lb.

* Data from 1934-1959, U. S. Bureau of Commercial Fisheries Annual Management Reports.

1/ Some varying prices paid each year by small operators. The prices listed here reflect major fish sales.
2/ From 1934 to 1951 the prices listed were paid to independent fishermen. Company fishermen received a lower price.
3/ Point Chehalis Packers paid the following prices delivered at the plant: King - 23¢/lb.; red - Copper River 30¢/lb., Eshamy - 27¢/lb.; coho - 17¢/lb.; pink - 13¢/lb.; chum - 10.5¢/lb.
4/ A price differential was paid for pink and chum salmon after the salmon pack was sold. The differential paid fishermen in 1967 was $0.0425 for pinks, and $0.0392 for chums; in 1968, $0.0424 for pinks and $0.0351 for chums; in 1969, $0.0466 for pinks and $0.0366 for chums; in 1970, $0.0431 for pinks and $0.0358 for chums; in 1971 $0.0387 for pinks and $0.0291 for chums.
5/ Includes differential price paid to fishermen.

APPENDIX TABLE 3. Pounds and value to fishermen of shellfish landed in the Cordova area, 1960 to present. 1/

Year	Item	Dungeness Crab	King Crab	Tanner Crab	3/ Shrimp	Razor Clams	TOTAL
1960	Pounds	2,722,470	246,965		2,494	433,930	3,405,859
	Value	$ 272,247	$24,697		$3,118	$60,750	$ 360,812
1961	Pounds	2,756,194				261,628	3,017,822
	Value	$ 275,619				$39,244	$ 314,863
1962	Pounds	2,643,775	31,478		1,788	208,698	2,885,739
	Value	$ 317,253	$ 3,777		$2,235	$31,305	$ 354,570
1963	Pounds	3,234,383	43,569		275	86,340	3,364,567
	Value	$ 452,814	$ 5,228		$ 344	$12,951	$ 471,337
1964	Pounds	3,393,171	14,028		1,062	89,275	3,497,536
	Value	$ 475,044	$ 1,683		$1,328	$13,391	$ 491,446
1965	Pounds	2,174,287	5,631		138	86,477	2,266,533
	Value	$ 260,914	$ 676		$ 173	$17,295	$ 279,058
1966	Pounds	999,341	34,891			27,063	1,061,295
	Value	$ 109,928	$ 4,187			5,413	$ 119,528
1967	Pounds	2,529,288	47,019		374	98,446	2,675,127
	Value	$ 328,807	$ 6,112	2/	$ 561	$24,612	$ 360,092
1968	Pounds	2,280,310	192,509	298,427	3,433	72,806	2,847,485
	Value	$ 296,440	$86,629	$ 29,843	$5,150	$18,202	$ 436,264
1969	Pounds	1,413,993	48,080	936,444	2,573	26,887	2,427,977
	Value	$ 226,239	$16,828	$ 93,644	$3,860	$ 6,722	$ 347,293
1970	Pounds	742,732	94,341	1,288,308	9,888	27,909	2,163,178
	Value	$ 103,982	$26,415	$ 141,714	$14,832	$ 6,977	$ 293,920
1971	Pounds	509,899	144,240	642,340	6,537	37,972	1,340,988
	Value	$ 91,782	$43,272	$ 70,657	$ 9,805	$ 9,493	$ 225,009
1972*	Pounds	724,673	296,193	8,550,709	8,627	30,065	9,610,267
	Value	$ 250,012	$103,075	$1,050,027	$12,078	$11,124	$1,426,316
1973*	Pounds	806,377	158,347	13,952,403	3,543	29,468	14,950,138
	Value	$ 443,507	$ 87,091	$1,713,355	$ 6,200	$14,734	$2,264,887

1/ Data from Alaska Department of fish and Game Annual Management Reports.
2/ This is the first year of catches on record from Prince William Sound.
3/ Pounds, heads off.
* Preliminary.

APPENDIX TABLE 4. Prices paid to fishermen for shellfish and miscellaneous fish and fish products, 1935 to present.

Year	Dungeness Crab	King Crab	Tanner Crab	Razor Clams	Cockles	Halibut	Salmon Eggs	Herring
1935				$0.05/ lb. 1/				
1937				$0.055/ lb. 1/				
1938				$0.055/ lb. 1/				
1939				$0.05/ lb.				
1940				$0.05/ lb.				
1943	$0.075 ea.			$0.0675/lb.				
1944	$0.075 ea.			$0.0675/lb.				
1945	$0.075 ea.			$0.0675/lb.				$2.40 2/
1946	$0.14 ea.			$0.09/ lb.	$6.00 3/	$0.12-0.13/lb.		
1947	$0.05/ lb.			$0.095/ lb.	$4.50	$0.13-0.14/lb.		
1948	$0.12 ea.			$0.105/ lb.	$6.00	$0.10-0.16/lb.		
1949	$0.12 ea.			$0.12/ lb.	$6.00			
1950	$0.12 ea. 4/			$0.12/ lb.	$6.00			
1951	$0.085/lb.			$0.15/ lb.	$8.00			
1952	$0.085/lb.			$0.13/ lb.				
1953	$0.085/lb.			$0.13/ lb.				
1954	$0.08/ lb.			$0.13/ lb.				
1955	$0.08/ lb.			$0.13/ lb.				
1956	$0.08/ lb.			$0.13/ lb.	$0.03/lb.			
1957	$0.05/ lb.			$0.13/ lb.			$0.07/lb.	
1958	$0.06/ lb.			--	Herring Spawn On Kelp			
1959	$0.08/ lb.	$0.08/lb.		$0.13/ lb.				
1960	$0.10/ lb.	$0.10/lb.		$0.14/ lb.				
1961	$0.10/ lb.	$0.10/lb.		$0.15/ lb.				
1962	$0.12/ lb.	$0.12/lb.		$0.15/ lb.				
1963	$0.14/ lb. 5/	$0.12/lb.		--				
1964	$0.14/ lb. 5/	$0.12/lb.		$0.20/ lb.				
1965	$0.12/ lb. 6/	$0.12/lb.		$0.20/ lb.		$0.16/lb.		
1966	$0.11/ lb.	$0.12/lb.		$0.20/ lb.				
1967	$0.13/ lb.	$0.13/lb.		$0.25/ lb. 7/				
1968	$0.13/ lb. 8/	$0.36-0.50 9/	$0.10	$0.25/ lb.				
1969	$0.16/ lb.	$0.25-0.45 9/	$0.10	$0.25/ lb.				
1970	$0.14/ lb.	$0.28/lb.	$0.11	$0.25/ lb.	$0.50/lb.	$0.25-30/lb.		$4.00/50# bag

APPENDIX TABLE 4. Prices paid to fishermen for shellfish and miscellaneous fish and fish products, 1935 to present, cont.

Year	Dungeness Crab	King Crab	Tanner Crab	Razor Clams	Cockles	Halibut	Salmon Eggs	Herring
1971	$0.18/ lb.	$0.30/ lb.	$0.11/lb.	$0.25/ lb.	$0.50/ lb.	$0.25/lb.		$35.00/ton
1972	$0.245/ lb.	$0.348/ lb.	$0.1228/lb.	$0.37/ lb.	$0.5556/lb.	$0.40/lb.		$0.08/ lb. (bait)
1973	$0.55/ lb.	$0.55/ lb.	$0.20/lb.	$0.50/ lb.				$160/ ton (roe)

* Data from 1935-1959, U. S. Bureau of Commercial Fisheries Annual Management Reports. 1/ Prices paid to independent fishermen. Lower prices paid to Company fishermen. 2/ Price paid per 250 pound barrel. 3/ Price paid per 100 pound sack. 4/ Prices for Dungeness crab, $0.14-0.15 caught in "outside" waters. 5/ Prices decreased to $0.12 September 1st. 6/ Sliding scale - 9% of the meat price in Seattle, determined every two weeks. 7/ Price per pound prior to June 1st was $0.20. 8/ Late in the season price raised to $0.15. 9/ Prices varied throughout the season from a low of $0.36 to a high of $0.50 in 1968 and $0.25 to $0.45 per pound in 1969.

APPENDIX TABLE 5. Number of salmon per case, 1945 to present. 1/

Year	King	Red	Coho	Pink	Chum
1945	3.5	11.66	7.75	23.5	11.25
1946	3.2	11.80	9.9	25.1	10.5
1947	3.92	11.1	8.0	21.4	11.0
1951 2/	3.4	11.6	8.1	18.1	9.1
1952 2/	3.4	11.6	8.1	18.1	9.1
1953	3.4	11.1	7.0	16.5	9.1
1954	3.2	11.7	7.5	16.5 2/	
1955	3.5	11.5	8.6	15.0	8.7
1956	3.6	11.2	8.3	26.0	10.2
1957	3.8	11.6	10.5	17.4	8.5
1958	3.0	11.5	8.3	17.0	9.1
1959	3.2	12.9	8.6	SEASON CLOSED	
1960	3.6	13.4	9.3	24.4	9.8
1961	3.82	12.0	9.24	17.0	9.3
1962	3.26	11.04	10.92	24.14	10.71
1963	3.08	12.21	7.9	22.89	9.14
1964 3/	2.86	13.52	6.89	22.39	8.23
1965 3/	3.17	12.69	10.31	25.43	10.23
1966 3/	2.82	11.01	7.60	19.57	10.65
1967 4/	2.71	10.87	10.64	19.02	9.43
1968 4/	2.70	12.20	7.80	21.59	8.68
1969 4/	2.71	11.53	8.17	20.86	8.36
1970 4/	2.35	11.19	8.11	21.36	9.60
1971 4/	3.00	10.64 24	10.83	21.32	11.36
1972 4/		10.93	8.30	16.15	9.53
1973 5/	2.11	10.31	5.96	20.55	8.14

* Number of salmon per case reflect primarily Copper River for kings and reds, and Prince William Sound for pinks and chums.

1/ Data from 1945 - 1957, U. S. Bureau of Commercial Fisheries Annual Management Reports.

2/ Taken from average of other years.

3/ Data from Parks Canning Company, execpt in 1965 the pinks averaged for all canneries.

4/ Data from New England Fish Company.

5/ Calculated from annual reports of operators.

APPENDIX TABLE 6. Bering River commercial salmon catch, 1896 - 1926, 1951 - 1973. 1/

Year	Red	King	Coho
1896	23,980		
1897	39,269		
1898	39,383		
1899	27,072		
1900	106,167		
1901	NO CATCH REPORTED		
1902	NO CATCH REPORTED		
1903	NO CATCH REPORTED		
1904	123,400	400	
1905	NO CATCH REPORTED		
1906	54,074	111	
1907	NO CATCH REPORTED		
1908	NO CATCH REPORTED		
1909	NO CATCH REPORTED		
1910	NO CATCH REPORTED		
1911	NO CATCH REPORTED		
1912	41,023		8,000
1913	38,519		
1914	10,202		
1915	105,614	4	
1916	141,278	7	51,938
1917	163,357	321	78,412
1918	173,021	139	80,218
1919	139,792	72	76,729
1920	162,582	120	63,865
1921	120,667	3	
1922	131,179	72	
1923	192,361	86	24,723
1924	87,114	111	80,030
1925	52,632	77	57,018
1926	37,424	76	52,668
1951	3,591	34	46,306
1952			13,642
1953	8,572	26	
1954	129		91,964
1955	34,121	125	70,100
1956	41,437	147	53,484
1957	29,142	71	27,441
1958	23,947	72	21,202
1959	27,384	77	58,560
1960	32,890	63	68,255
1961	55,084	29	50,883
1962	72,230	246	55,502
1963	21,525	172	87,507
1964	16,911	44	77,360
1965	13,536	7	52,162

APPENDIX TABLE 6, cont. Bering River commercial salmon catch, 1896 - 1926, 1951 - 1973. 1/

Year	Red	King	Coho
1966	24,894	36	49,580
1967	11,464	13	46,135
1968	26,136	10	67,310
1969	38,093	44	4,033
1970	23,539	26	79,264
1971	36,776	105	88,231
1972	51,445	107	19,825
1973	15,426	285	65,348

1/ From 1927 - 1950 catches are included in the Copper River catch totals.

From 1896 to 1927, data is from "Statistical Review of the Fisheries", Part III: Prince William Sound, Copper River and Bering River, Willis H. Rich and Edward M. Ball, 1932, U. S. Department of Commerce, Bureau of Commercial Fisheries, Bulletin No. 7.

From 1928 to 1955, data is from Manuscript Report, 1964, "The Red Salmon of Copper River, Alaska", Seton H. Thompson.

From 1956 to 1971, data is from U. S. Fish and Wildlife Service and Alaska Department of Fish and Game.

APPENDIX TABLE 7. Copper River commercial salmon catch, 1889 to present.

Year	Red	King	Coho
1889	242,790		
1890	411,190	5,491	
1891	710,740	6,185	
1892	NO CANNERIES OPERATING		
1893	792,690	8,674	72,000
1894	710,000	8,494	17,000
1895	507,630	10,248	142,937
1896	714,595	1,407	31,862
1897	371,487	2,044	25,605
1898	417,171	1,850	
1899	527,122	4,682	
1900	748,310	3,462	88,175
1901	781,438	6,558	
1902	800,044	2,500	
1903	814,345	4,600	
1904	501,630	5,014	
1905	320,000	20,000	
1906	265,378	2,165	
1907	263,557	869	
1908	466,414		
1909	316,688	3,067	
1910	221,993	974	18,149
1911	407,559	1,358	33,660
1912	456,390	6,181	36,238
1913	404,914	2,307	
1914	570,959	3,043	42,192
1915	818,728	7,334	12,098
1916	569,531	14,259	118,267
1917	919,818	13,930	126,073
1918	1,492,356	19,627	74,379
1919	1,328,643	13,266	53,468
1920	854,624	22,997	73,924
1921	570,291	11,466	377
1922	505,775	10,075	
1923	625,875	10,339	
1924	790,835	15,862	41,889
1925	160,721	19,728	153,376
1926	211,341	21,338	177,781
1927 2/	341,291	35,598 *	410,350
1928 3/	584,319	42,144 *	
1929	918,065	43,866 *	
1930	805,999	23,181 *	
1931	804,497	35,268 *	109,319 *
1932	828,920	29,403 *	
1933	645,540	14,073 *	96,263 *
1934	975,916	10,407 *	
1935	111,579	2,352 *	79,722 *
1936	862,789	6,939 *	
1937	1,024,416	11,538 *	45,535 *
1938	767,721	7,614 *	
1939	633,733	6,555 *	6,809 *
1940	435,993	3,876 *	266,892 *

APPENDIX TABLE 7, cont. Copper River commercial salmon catch, 1889 to present. 1/

Year	Red	King	Coho
1941	432,941	9,225 *	700,086 *
1942	562,092	15,762 *	710,014 *
1943	700,439	14,670 *	186,380 *
1944	769,552	7,638 *	294,619 *
1945	823,805	18,063 *	349,580 *
1946	538,407	23,329	219,853 *
1947	352,077	15,182	188,965 *
1948	168,724	4,367	243,848 *
1949	441,776	9,300	136,876 *
1950	800,451	17,777	171,690 *
1951	451,943	17,439	154,418
1952 4/	1,136,316	29,355	177,382
1953	563,708	12,198	29,866
1954	1,099,564	15,764	157,941
1955	636,705	20,438	158,208
1956	540,575	11,702	109,248
1957	541,637	8,151	58,705
1958	307,342	6,965	81,610
1959	299,782	9,833	132,259
1960 5/	593,824	14,052	118,395
1961	528,223	7,621	133,987
1962	677,626	14,792	174,628
1963	375,925	10,871	202,621
1964	699,548	12,751	242,666
1965	818,277	15,390	70,786
1966	1,005,615	11,422	116,147
1967	679,503	9,853	160,532
1968	573,270	9,743	230,867
1969	696,836	14,040	77,405
1970	1,115,695	19,375	161,892
1971	616,801	16,486	208,915
1972	727,144	22,250	103,021
1973	332,816	19,947	132,164

1/ From 1889 to 1927, data is from "Statistical Review of the Fisheries", Part III: Prince William Sound, Copper River and Bering River, Willis H. Rich and Edward M. Ball, 1932, U. S. Department of Commerce, Bureau of Commercial Fisheries, Bulletin No. 7.

2/ From 1927 to 1950, Bering River catches are included.

3/ From 1928 to 1951, data is from Manuscript Report 1964, "The Red Salmon of Copper River, Alaska", Seton H. Thompson.

4/ From 1952 on, data is from INPFC publications.

5/ From Alaska Department of Fish and Game field data.

* Based on 3 kings per case, and 8.5 coho per case.

APPENDIX TABLE 8. Subsistence fishery Upper Copper River, 1948 to present. 1/ 6/

Year	No. 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 7/		1,767	319						2,086
1957 3/		7,241	281	108			123		7,753
1960	60	6,739	136	25	15	167	100		7,182
1961	194	15,472	388	550	188	88	639	87	17,412
1962	375	14,543	848	381	50	49	3	148	16,022
1963	295	14,055	464	558	52	48	23		15,200
1964	1,002	11,915	725	103			507		13,250
1965	1,127	12,760	644	52			964		14,420
1966	1,319	16,718	555				303		17,576
1967	1,327	14,457	419				194		15,070
1968	1,378	14,819	644	233			142		15,838
1969	1,582	27,604	719	224			22		28,569
1970	3,487	36,500	427	554			81		37,562
1971	4,577	37,517	1,363	363			52		39,295
1972	3,700	26,850	1,501	248			16		28,615
1973	4,145	27,350	1,856	51			70		29,327

1/ Data from years 1948, 1949, 1952, 1954, 1955, 1957, 1960 to 1971. Other years not reported.
2/ Estimated catches probably obtained by interview.
3/ Reported catch.
4/ Data from sample checks of fish wheels. Observations of fish in boxes of wheels, 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 fish wheel fishermen.
* No record or knowledge of Upper Copper River ever having pinks and chums.

APPENDIX TABLE 9. Red Salmon scale Age Analysis Copper River
By Percent by year.

AR	3_1	3_2	4_1	4_2	4_3	5_1	5_2	5_3	6_2	6_3	6_4	7_3	7_4
1917	1	P	5	19			60	4		10			P
*1918			5	20			72	P		P			
**1919			P	5	P		75	P		16	P		P
1929			P	3			90	P		7			P
1930	P		P	15			78		P	4			P
1931			P	6			82	P	P	9			P
1932			P	31			55	P		8			
1933			P	6			90	P	P	3			P
1934	P		P	3			86	P	P	3	P	P	
1935	P	P	P	26			63	P	P	6			P
1936	P		P	33		P	51	P	P	7	P		P
1937	P		P	33			58	P	P	5			P
1938	P		P	13			77	P	P	4			P
1939			P	6			90	P	P	3			
1941			P	18			73	P		5			
1954	P		P	11			78	P	P	2			
1955	P	P	6	11			78	P		2			
1965			6	15	P		58	3		19			
1966	P	P	3	7		1	84	1	P	3			
1967		P	1	12			86	1	P	1			
1968		P	1	34			62	1	P	1			
1969			P	28		P	72	P	P	P			
1970		P	P	22	P		73	3	1	1			
1971	P	P	P	12	P		85	P	P	1			
1972			2	15		P	61	1	P	21		P	P

P Present, but less than 1%
* Dipnet samples
** No June samples

APPENDIX TABLE 10. Prince William Sound commercial salmon catches from inception of the fishery, 1889 to present.

Year	Coho	Chum	Pink	King	Red
1889 1/					242,790
1890				5,491	411,190
1891				6,185	710,740
1892				8,674	792,690
1893	72,000			8,494	710,000
1894	17,000			10,248	507,630
1895	142,937			1,407	714,595
1896	31,862		308,180	2,044	371,487
1897	25,605		302,290	1,850	417,171
1898			375,246	4,682	527,122
1899			212,907	3,462	748,310
1900	88,175		50,565	6,558	781,438
1901			313,806	2,500	800,044
1902			375,408	4,600	814,345
1903			398,926		
1904			573,967	253	109,200
1905					100,000
1906					60,578
1907			252,373		17,692
1908			18,018		117,018
1909					150,412
1910	14,411		196,871		68,122
1911	20,284		156,349		23,130
1912	15,563	405	401,892		47,549
1913	406	70	425,574	1,003	75,412
1914	13,001		224,906		72,348
1915	6,915	2,175	449,174		52,111
1916	47,746	45,918	3,270,282	6	72,321
1917	44,557	370,309	2,590,563	364	222,154
1918	100,247	1,341,887	4,302,646	557	249,092
1919	72,836	558,522	1,008,312	6,930	152,682
1920	89,378	260,963	5,314,747	6,408	129,655
1921 *	9,316	3,499	12,644		92,571
1922	8,962	50,517	2,421,272	286	140,736
1923	26,889	111,582	2,447,006	530	170,050
1924	69,431	385,251	8,395,901	1,219	158,484
1925	84,408	780,956	4,085,084	3,325	96,703
1926	78,607	587,351	11,153,663	2,153	157,313
1927	258,816	655,159	6,124,9111	3,094	118,118
1928 2/	190,350	468,260	8,034,200	4,018	183,144
1929	66,066	1,282,150	9,613,500	900	264,960
1930	107,622	979,800	6,776,860	2,195	207,108
1931	56,547	607,420	6,415,800	812	250,764
1932	97,434	333,090	3,272,180	4,795	319,908
1933	74,853	316,720	3,016,300	2,531	153,432
1934	122,949	344,210	6,546,960	2,503	174,588
1935	31,023	532,260	3,430,600	2,174	193,152
1936	47,205	236,600	9,569,150	1,509	161,280
1937	59,859	219,410	3,764,897	1,152	101,904
1938	61,614	312,180	7,838,938	879	127,380
1939	34,722	287,560	2,162,500	900	148,680
1940	92,313	540,010	11,217,518	637	84,780

APPENDIX TABLE 10, cont. Prince William Sound commercial salmon catches from inception of the fishery, 1889 to present. **

Year	Coho	Chum	Pink	King	Red
1941	57,870	737,760	3,341,908	350	84,996
1942	123,327	826,330	7,669,569	1,572	159,468
1943	74,133	306,200	11,259,996	9,083	111,420
1944	71,118	1,181,590	8,670,423	553	152,892
1945	44,469	1,540,800	12,139,224	357	208,584
1946	144,333	760,030	8,504,417	1,428	125,184
1947	64,332	650,190	8,398,398	504	196,488
1948	45,432	470,080	2,625,076	259	229,380
1949	117,144	831,950	6,180,384	585	101,076
1950	111,969	574,640	1,793,330	308	86,148
1951 3/	47,636	549,206	802,892	3,636	208,065
1952	51,130	549,663	2,161,556	111	74,324
1953	37,012	352,714	1,996,413	72	49,252
1954 *	436	6,071	12,142	1	6,185
1955 *	596	4,662	26,873		12,924
1956	34,850	507,199	4,525,408	492	156,336
1957	20,935	705,642	649,001	968	66,468
1958	22,555	687,266	6,289,924	12,041	13,821
1959 *	1,123		229	1,447	
1960 4/	30,722	381,858	1,841,899	1,580	35,176
1961	3,335	221,951	2,287,766	406	55,551
1962	31,908	891,880	6,742,316	1,830	54,468
1963	48,661	942,900	5,295,378	2,293	60,304
1964	30,969	539,047	4,206,896	71	66,974
1965	45,211	201,043	2,460,471	1,099	116,092
1966	23,908	426,628	2,699,418	650	99,714
1967	40,569	274,234	2,626,340		45,515
1968	11,660	350,630	2,451,668	3,414	123,516
1969	12,866	320,977	4,828,579	3,340	285,584
1970	11,485	230,661	2,809,996	1,031	104,169
1971 ***	26,185	576,706	7,359,825	1,135	88,331
1972 *	1,824	45,370	54,783	551	197,621
1973	1,507	729,839	2,056,878	2,406	124,802

1/ From 1889 to 1927, data is from "Statistical Review of the Alaska Salmon Fisheries", Part III: Prince William Sound, Copper River and Bering River, Willis H. Rich and Edward M. Ball, 1932, U. S. Department of Commerce, Bureau of Commercial Fisheries, Bulletin No.7. (Data from 1889 - 1903 is combined catches from Prince William Sound and Copper River. Coho are probably mainly pinks).

2/ From 1928 to 1950, data is from U. S. Fish and Wildlife Service, "Alaska Fishery and Fur Seal Industries" estimates of pink catch from case pack data by W. H. Noerenberg's "Prince William Sound Spawning Ground Survey, 1954", University of Washington, Fisheries Research Institute, Circular No. 69, October 22, 1954. Other species estimated on the basis of 9 coho, 10 chum, 3.5 kings and 12 reds per case.

3/ From 1951 to 1959, data is from U. S. Fish and Wildlife Service, Alaska Commercial Salmon Catch Statistics, Statistical Digest No. 50, By Robert R. Simpson, 1960.

4/ Data from 1960 on is from Alaska Department of Fish and Game.

* Catch these years not indicative of abundance due to economic or other reasons.

** Data for years 1962 to 1967 and 1970 corrected to INPFC data reports.

*** Preliminary.

APPENDIX TABLE 11. Prince William Sound salmon case pack from inception of the fishery, 1889 to present.

Year	Coho	Chum	Pink	King	Red
1889 1/					20,233
1890				1,569	34,266
1891				1,767	59,228
1892				2,478	66,058
1893	8,000			2,427	59,167
1894	1,889			2,928	42,303
1895	15,882			402	59,550
1896	3,540		15,409	584	30,957
1897	2,845		15,115	529	34,764
1898			18,762	1,338	43,927
1899			10,645	989	62,359
1900	9,797		2,528	1,874	65,120
1901			15,690	714	66,670
1902			18,770	1,314	67,862
1903			19,946		
1904			28,698	72	9,100
1905					8,333
1906					5,048
1907			12,619		1,474
1908			901		9,752
1909					12,534
1910	1,601		9,844		5,677
1911	2,254		7,817		1,928
1912	1,729	41	20,095		3,962
1913	45	7	21,279	287	6,284
1914	1,445		11,245		6,029
1915	768	218	22,459		4,343
1916	5,305	4,592	163,514	2	6,027
1917	4,951	37,031	129,528	104	18,513
1918	11,139	134,189	215,132	159	20,758
1919	8,093	55,852	50,416	1,980	12,724
1920	9,931	26,096	265,737	1,831	10,805
1921	1,035	350	632		7,714
1922	996	5,052	121,064	82	11,728
1923 2/	1,525	10,579	134,876	64	15,028
1924	12,922	39,121	381,506	51	8,814
1925	9,466	67,732	233,899	287	8,113
1926	11,457	59,938	618,698	125	15,094
1927	19,108	61,845	405,869	1,029	12,930
1928	21,150	46,826	472,611	1,148	15,262
1929	7,334	128,215	565,841	257	22,080
1930	11,958	97,980	405,845	627	17,259
1931	6,283	60,742	377,367	232	20,897
1932	10,826	33,309	207,109	1,370	26,659
1933	8,317	31,672	194,646	723	12,786
1934	13,661	34,421	389,676	715	14,549
1935	3,447	53,226	201,756	621	16,096
1936	5,245	23,660	609,537	431	13,440
1937	6,651	21,941	182,762	329	8,492
1938	6,846	31,218	461,114	251	10,615
1939	3,858	28,756	129,491	257	12,390
1940	10,257	54,001	521,745	182	7,065

APPENDIX TABLE 11. cont. Prince William Sound salmon case pack from inception of the fishery, 1889 to present.

Year	Coho	Chum	Pink	King	Red
1941	6,430	73,776	217,007	100	7,083
1942	13,703	82,633	366,965	449	13,289
1943	8,237	30,620	511,818	2,595	9,285
1944	7,902	118,159	416,848	158	12,741
1945	4,941	154,080	493,482	102	17,382
1946	16,037	76,003	317,329	408	10,432
1947	7,148	65,019	380,018	144	16,374
1948	5,048	47,008	123,411	74	19,115
1949	13,016	83,195	275,830	167	8,423
1950	12,441	57,464	111,838	88	7,179
1951 3/	5,295	54,942	47,809	1,469	19,996
1952	5,508	66,254	115,451	5	6,997
1953	4,085	34,552	122,236	37	4,929
1954	56	695	746		654
1955	63	550	1,795		1,346
1956	3,313	48,772	185,664	31	15,442
1957	1,892	74,716	35,431	171	6,322
1958	597	77,922	358,860	6	1,117
1959 *	124		11	413	
1960 4/	1,267	39,711	70,554	2	2,701
1961	1,221	24,129	135,189	106	6,589
1962	1,457	81,856	270,797	33	5,454
1963	3,914	101,561	228,077	119	5,835
1964	4,487	63,392	187,114	16	2,773
1965	1,345	19,435	93,870	345	9,880
1966	2,225	43,271	146,069	50	10,599
1967	1,590	27,824	137,030	37	1,908
1968	1,318	40,395	113,556	1,269	11,522
1969	922	40,751	167,252	817	29,343
1970 5/	1,237	18,931	127,867	518	9,269
1971	3,229	39,413	203,438	324	7,894
1972		5,684	3,102		17,576 **
1973		59,284	73,635		11,167 **

1/ Data from 1889 to 1922 is from "Statistical Review of the Alaska Salmon Fisheries", Part III: Prince William Sound Copper River and Bering River, Willis H. Rich and Edward M. Ball, 1932, U. S. Department of Commerce, Bureau of Commercial Fisheries, Bulletin No. 7. (The case pack is estimated on the basis of 9 coho, 10 chums, 20 pinks, 3.5 kings and 12 reds, 48 one pound cans per case).

2/ Data from 1923 to 1950 is from, "Alaska Fishery and Fur-Seal Industries", U. S. Department of Commerce, Bureau of Commercial Fisheries. (Data from 1923 to 1950 also includes catches from Resurrection Bay).

3/ Data from 1951 to 1959 is from U. S. Fish and Wildlife Service, Bureau of Commercial Fisheries Annual Management Reports.

* Troll catches. (Cases estimated on the basis of 9 coho, 20 pinks and 3.5 kings, 48 one pound cans per case.

4/ Data from 1960 on is from Alaska Department of Fish and Game.

5/ Case pack of chums and pinks from weekly pack reports of processors. Other species estimated on the basis of 8.11 cohos, 3.5 kings and 11.19 reds, 48 one pound cans per case.

** Estimated.

APPENDIX TABLE 12. Prince William Sound Area troll salmon catch by stat area from 1963.

Year	No. Boats	Stat Area	King	Red	Coho	Pink	Chum	Total
1963	23	221	30					30
		222	543					543
		227	804		14,311	341	48	15,504
		227-40	275		2,927	494	10	3,706
1964			NO RECORD					
1965	9	227	523		5,722	347	7	6,599
1966	4	221	5		356	6	367	734
		227	437		2,578	188	6	3,209
1967		212			53			53
		221	5		101			106
		227	3,138		22,122	1,404	71	26,735
		228	4					4
1968	6	221	10		722			732
		227	1,296		3,685	396	2	5,379
1969	10	221	22	1	22	8		53
		227-40	2,530		1,428	787	6	4,751
1970	10	221	2		24			26
		227	816	2	1,170	84		2,072
1971	7	221			140	252		392
		227-40	2,403		334	15	2	2,754
1972	7	212	4	95	190			289
		224	20					20
		226	9					9
		227-40	367		192	2		561
1973	8	212	1		108			109
		221			19			19
		224	1		45			46
		227	1,920		129			2,049

APPENDIX TABLE 13. Annual estimated salmon spawning escapement in Prince William Sound streams, 1927 to present.

Year	Red	Pink	Chum
1927		1,086,383	
1928		922,671	264,230
1929		729,444	443,503
1930		1,502,939	478,498
1931 2/		606,176	349,566
1937		869,217	156,969
1938		1,279,434	140,315
1939		409,708	152,598
1940		982,131	45,050
1941		615,545	40,447
1942		1,109,128	40,050
1943		862,026	122,300
1944		932,423	140,550
1945		1,245,224	191,770
1946		967,706	44,103
1947		590,980	50,005
1948		360,534	92,813
1949		426,827	148,658
1950		356,150	82,114
1951	74,571	457,066	277,750
1952	52,693	248,290	124,902
1953	9,088	289,229	138,686
1954	5,900	1,438,738	199,733
1955	21,561	587,136	93,752
1956	53,375	1,349,000	176,696
1957	53,647	154,000	269,443
1958	6,644	857,000	82,275
1959	14,608	601,000	175,700
1960	166,515	1,350,823	201,877
1961	104,255	2,203,800	341,199
1962	41,080	2,001,220	486,858
1963	80,480	1,344,710	371,100
1964	114,839	1,844,690	442,550
1965	210,260	975,960	195,640
1966	111,600	1,299,530	223,540
1967	35,040	1,227,370	187,500
1968	92,170	1,083,900	195,560
1969	158,700	1,127,900	163,050
1970	48,560	951,660	101,100
1971	35,500	2,115,440	166,580
1972	96,670	618,160	301,680
1973	73,520	1,229,900	546,590

1/ From U. S. Fish and Wildlife Service aerial and ground surveys, 1927 - 1951; Fisheries Research Institute ground surveys, 1952 - 1959; and, Alaska Department of Fish and Game aerial and ground surveys, 1960 to present.

2/ No records for years 1932 - 1936, only general statements.

APPENDIX TABLE 14. Aerial and ground estimates and weir counts of salmon in Shrode Creek, 1924 to present. 1/

Year	Reds	Pinks
1924 2/		few
1925		25,000
1926		35,000
1927		40,000
1928		25,000
1929		48,000
1930		16,000
1931		9,000
1936		50,000
1937		75,000
1938		80,000
1939		6,000
1940		9,000
1941		700
1942		14,000
1943		6,000
1944		12,000
1945		55,000
1946		1,400
1947		7,000
1948		20,000
1949		18,000
1950		6,000
1951		15,000
1952 3/		1,700
1953		19,000
1954		7,100
1955		4,100
1956		3,000
1957		40
1958		300
1959		1,100
1960		1,090
1961		19,000
1962		15,000
1963		125,000
1964		7,000
1965		89,000
1966		160
1967		241,750
1968 4/	7,315	1,270
1969	1,516	82,305
1970	500	319

APPENDIX TABLE 14, cont. Aerial and ground estimates and weir counts of salmon in Shrode Creek, 1924 to present. 1/

Year	Reds	Pinks
1971	300	12,616
1972	4,355	205
1973	870	44

1/ Data from 1924 to 1959 from "Evaluation of Shrode Creek Fishway", U. S. Forest Service, R-10, Juneau, Alaska, 1967.
2/ From 1924 to 1951 estimates for total stream escapement.
3/ From 1952 to 1967 estimates of escapement above the falls.
4/ From 1968 on, above falls at weir.

APPENDIX TABLE 15. Eshamy district salmon catch by species from inception of the fishery, from 1904 to present.

Year	King	Red	Coho	Pink	Chum
1904 1/		55,000			
1905		98,750			
1906		55,500			
1907		17,500			
1908		117,000			
1909		135,750			
1910		68,750			
1911		7,500			
1912		16,250			
1913		55,000			
1914		50,000			
1915		25,000			
1916		17,000			
1917		100,000			
1918		103,750			
1919		45,000			
1920		20,500			
1921		60,500			
1922		97,050			
1923		116,000			
1924		2,500			
1925		5,000			
1926		10,500			
1927		15,500			
1931 2/	14	21,021	166	5,952	635
1932		27,727	7	10,573	93
1933		6,625		7,800	220
1934		7,394	2	7,143	
1935		45,474	545	21,296	3,490
1936		29,829	397	59,799	4,062
1937	1	20,582	6	45,544	
1938		42,476	10	97,708	573
1939		16,772		17,617	
1940		13,011		41,734	8,419
1941		18,673	744	30,284	878
1942		51,390 4/			
1943		Catch not separated			
1944		32,719	534	8,608	1,404
1945		19,743	902	21,371	19,527
1946		31,799	1,330	25,488	12,398
1947		77,703	657	32,144	7,007
1948		102,632	434	12,081	3,109
1949		23,556	1,070	40,698	14,112
1950		26,772	780	23,289	3,976
1951		78,360	1,580	62,790	9,552
1952		43,128	720	11,025	2,872
1953		15,828	1,070	52,815	9,152
1954		7,848	560	15,666	5,560
1955		12,919	595	26,857	4,806
1956		75,355	788	32,101	14,439
1957		33,665	738	22,672	12,183
1958		Closed			
1959		Closed			

APPENDIX TABLE 15. cont. Eshamy district salmon catch by species from inception of the fishery, 1940 to present.

Year	King	Red	Coho	Pink	Chum
1960 3/		Closed			
1961 4/		55,133	1,324	113,326	22,918
1962		23,857	3,895	76,345	39,909
1963		Closed			
1964		Closed			
1965 5/		15,456	71	550	649
1966		20,826	745	36,584	7,896
1967		Closed			
1968		Closed			
1969	16	61,768	211	25,460	8,136
1970	2	17,292	579	44,381	5,632
1971		Closed			
1972	82	52,888	1,146	45,375	26,008
1973	69	16,439	149	21,501	27,546

1/ From 1904 - 1927, interpretive data from graph: Rich and Ball, 1932, page 207. Eshamy district Gumboot Creek to Point Nowell.
2/ From 1931 - 1951, U. S. Bureau of Fisheries Annual Reports. Number of salmon calculated from case pack. Eshamy district Port Nellie Juan light - Granite Bay Point.
3/ From 1960 - 1972, Alaska Department of Fish and Game Annual Management Reports.
4/ Probably not all from Eshamy district.
5/ Catch from 1965 on represents both set and drift gill net.

APPENDIX TABLE 16. Eshamy River, Prince William Sound, weir count from 1931 to present. 1/

Year	King	Red	Coho	Pink	Chum	Count Start	Count End
1931 2/	16	78,980	4,741	6,157		7/ 7	9/30
1932	41	229,668	6,372	3,773		6/21	9/22
1950 3/		30,364	971	421		7/ 9	8/17
1951		62,661	1,518	5,515		7/ 4	9/ 9
1952		42,859	51	119		7/11	9/10
1953		4,588	185	718		6/30	9/ 5
1954		1,437	15	418		7/ 1	9/ 4
1955		13,036	1,505	6,611	717	7/ 4	9/ 8
1956	2	46,863	117	1,166	14	6/30	9/12
1957		51,308	400	4,031	16	6/30	9/14
1958		5,224	27	273	3	7/ 2	9/ 1
1959		6,908	256	674		7/ 3	8/28
1960		13,217	132	250		6/26	9/ 1
1961		47,275	436	2,963		6/25	9/10
1962		9,390	1,677	738	291	6/23	9/14
1963		3,092	232	2,459		7/ 3	9/15
1964		67,729	1,565	522	9	6/17	9/ 9
1965		108,963	532	5,441	6	6/28	9/26
1966		26,593	194	331	2	6/26	9/16
1967		10,821	192	10,433	1	6/22	9/ 6
1968	1	68,048	450	919	1	6/22	9/ 6
1969		61,196	96	3,095	2	6/24	9/17
1970		11,460	25	387		6/22	9/10
1971 4/		954	97	3,179		7/ 7	9/15
1972		28,683	71	781		7/ 5	9/12
1973		10,202	205	1,698		7/ 2	9/14

1/ 1931 and 1932, data from Alaska Fishery and Fur Seal Industries, B.C.F. 1950 - 1959, data from B.C.F. Annual Management Reports. 1960 to present, data from Alaska Department of Fish and Game Annual Management Reports.
2/ 1931 was the first year that Eshamy River weir was operated.
3/ From 1933 - 1949 no counts made due to lack of funds.
4/ Count not accurate as weir was not fish tight at all times.

APPENDIX TABLE 17. Dungeness crab catch from inception of the fishery, 1928 to present. 1/

Year	Canned (48-1/2# Cs.)	Number Crabs	Number Pounds
1928 2/			52,000 5/
1931			90,000 5/
1934	15,527		
1935	2,627		
1936 3/		508,799 7/	1,017,598 7/
1937	20,957	1,184,419	2,368,838
1938		665,720	1,331,440
1939		585,804	1,171,608
1940	5,222	540,757	1,081,514
1941	7,753 (approx.)	1,057,701	2,115,402
1942	7,056 "	305,952	611,904
1943	7,418 "	291,211	582,422
1944	13,857 "	491,485	982,970
1945	15,842 " 6/	813,617	1,627,234
1946	12,473 "	1,110,314	2,220,628
1947	8,102	832,451	1,664,902
1948	4,738	743,435	1,486,870
1949	8,932	803,302	1,606,604
1950	10,606	1,438,510	2,877,020
1951	9,277	1,338,569 8/	2,677,138 8/
1952	1,524	509,288	1,018,576
1953	550	627,942	1,255,884
1954	513	752,855	1,505,710
1955	115	982,414	1,964,829
1956	452	406,422	812,844
1957	210	108,562	217,123
1958		596,459	1,192,918
1959	5,906	1,247,143	2,494,287
1960 4/	2,100	1,361,235	2,722,470
1961	15,923	1,378,097	2,756,194
1962	14,759	1,321,887	2,643,775
1963 9/	11,587	1,456,297	3,234,383
1964 10/		1,516,978	3,393,171
1965 10/		1,021,072	2,174,287
1966		499,671	999,341
1967		1,264,644	2,529,288
1968		1,140,156	2,280,310
1969 10/		644,837	1,413,993
1970		371,366	742.732
1971		254,944	509,889
1972		362,337	724,673
1973		403,189	806,377

1/ Some fishing and processing occurred earlier than 1928 but reports of catches not available. See Pacific Fisherman Yearbook prior to 1928.

2/ Data from 1928 to 1963 for pounds of picked meat and canned crab from Pacific Fishermen Yearbooks.

3/ Data from 1936 to 1959 for number of crab and pounds from U. S. Bureau of Commercial Fisheries Annual Management Reports.

APPENDIX TABLE 17, cont. Dungeness crab catch from inception of the fishery, 1928 - 1971. 1/

4/ Data from 1960 to 1971 from Alaska Department of Fish and Game Commercial Fisheries records.
5/ Pounds of picked meat.
6/ Some of this pack was from Hoonah.
7/ A two pound average was used to convert crabs to pounds for the years 1936 to 1950.
8/ A two pound average was used to convert pounds to crab for the years 1951 to 1971 except as otherwise noted.
9/ Pounds converted to crab on the basis of 2.25 pounds per crab.
10/ Pounds converted to crab on the basis of 2.33 pounds per crab.
11/ First outside (Gulf) fishing this year.

APPENDIX TABLE 18. King crab catch in pounds, live weight, and cases from inception of the fishery, 1959 to present. 1/

Year	Pounds	Cases 2/ (48-1/2#)
1959	30,929	
1960	246,965	
1961		2,863
1962	31,478	431
1963	43,569	152
1964	14,028	
1965	5,631	
1966	34,891	
1967	47,019	
1968	192,509	
1969	48,080	
1970	94,341	
1971	144,240	
1972	296,193	
1973	207,916	
1974		

1/ Prior to 1959, king crab fishing amounted to an occassional experimental pack of one or two cases. No reports of catches are available prior to 1959.
2/ Data from Pacific Fisherman Yearbooks.
* Preliminary.

APPENDIX TABLE 19. Tanner crab catch in pounds, live weight, from inception of the fishery, 1968 to present.

Year	Pounds 2/
1968 1/	245,100
1969	936,500
1970	1,292,400
1971	642,300
1972	8,550,709
1973	12,696,852
1974	

1/ This is the first year of catches on record from Prince William Sound.
2/ Data from Alaska Department of Fish and Game Statistical Leaflet.

APPENDIX TABLE 20. Herring catch and production from Prince William Sound from inception of the fishery to present. 1/, 2/, 3/, 4/.

Year	Barrels Cured	Gallons Oil	Tons Meal	Pounds Of Herring For Roe	Pounds Kippered, etc.	Pounds Bait	Pounds Spawn On Kelp	Total Catch In Barrels
1914	214							
1918	22,263							
1919	18,075							
1920	15,275							
1921	37,353							
1922	72,608							
1923	37,966							
1924	18,989							
1925	9,689							
1926	4,643							
1927	12,707							
1928	8,513							
1929	477							
1930	4,006							
1931	6,498	226,153	773					
1932	6,753	363,058	1,256		410			
1933	9,973	468,528	1,720					
1934	8,073	811,033	2,564					
1935	20,982	1,283,225	5,087					
1936		1,426,323	5,546					
1937	2,366	2,164,207	6,998					384,000
1938	2,415	2,386,822	8,860					
1939	4,205	2,227,343	7,864		190,445			422,179
1940	3,323	1,262,207	432		16,750			255,723
1941	1,062	1,166,459	503					272,377
1942		60,000	26					13,893
1943	REPORTS NOT COMPLETE							8,008
1944								83,965
1945	697	395,015	1,487					79,952
1946	203	453,700	2,100					103,469
1947								NONE
1948		907,166	2,862			300,000 est.		163,278

APPENDIX TABLE 20. Herring catch and production from Prince William Sound from inception of the fishery to present. continued. 1/, 2/, 3/, 4/.

Year	Barrels Cured	Gallons Oil	Tons Meal	Pounds Of Herring For Roe	Pounds Kippered, etc.	Pounds Bait	Pounds Spawn On Kelp	Total Catch In Barrels
1949	NO PRICE SETTLEMENT							
1950								190,634
1951						305,350		178,468
1952								26,488
1953								4,268
1954								75,339
1955								80,811
1956								119,734
1957								100,677
1958								31,136
1959								682
1960								NONE
1961						27,625		
1962						124,000 est.		
1963								
1964								
1965								
1966								
1967						60,000		
1968								
1969				711,305			5,449	
1970						20,000	190,370	
1971				1,838,470		40,053	769,481	
1972				3,554,423		17,094	600,453	
1973*				13,983,707			306,358	
1974								

1/ Data from 1914 - 1930 from Pacific Fisherman Yearbook. Barrels of cured herring only separated by area. Catches reported do not include herring reduced to oil and meal.
2/ Data from 1931 - 1959 from U. S. Bureau of Commercial Fisheries Annual Management Reports. Refer to "Annual Report for 1952", Alaska Department of Fisheries, Juneau, Alaska for additional data.
3/ Data from 1960 - 1971 from Alaska Department of Fish and Game records.
4/ For additional data on catch refer to, "Fluctuations in the Supply of Herring Clupea Pallasii in Prince William Sound, Alaska", By George A. Rounsefell and Edwin H. Dalhgren, Bull. No. 9 U. S. Bureau of Fisheries, 193
and, Statistics of the Alaska Herring Fishery, 1878 - 1956, Statistical Digest No. 48, By Bernard E. Skud, Henry M. Sakuda and Gerald M. Reid, U. S. Fish & Wildlife Service, Bureau of Commercial Fisheries.
* Preliminary.

APPENDIX TABLE 21. Razor clam case pack and dig in pounds from inception of the fishery, 1918 to present.

Year	Cases 1/ 48/1/2 lbs.	Dig 2/ Live Weight
1918	125,266	
1919	31,118	
1920	7,824	
1921		
1922	12,647	
1923	30,106	
1924	37,169	
1925	45,730	
1926	12,458	
1927	8,329	
1928	7,361	
1929	10,601	
1930	12,109	
1931	20,221	1,357,114
1932	25,582	1,833,358
1933	10,014	845,746
1934	30,993	1,233,836
1935	21,529	826,421
1936		957,549
1937	28,697	1,423,933
1938		1,315,631
1939		1,540,607
1940	41,242	1,449,299
1941	19,881	906,461
1942	46,703	1,327,390
1943	48,730	1,671,602
1944	45,587	1,647,733
1945	45,190	1,657,722
1946	48,145	1,746,203
1947	15,830	606,540
1948	30,548	1,154,903
1949	36,804	1,478,255
1950	40,395	1,520,416
1951	40,423	1,535,119
1952	30,946	1,265,430
1953	38,364	1,485,937
1954	31,367	1,216,758
1955	44,817	1,377,109
1956	21,330	707,349
1957	27,560	1,017,418
1958 3/		32,395
1959	12,825	507,731
1960		433,930
1961	5,994	261,628
1962	3,398	208,698
1963 4/	37	86,340
1964		89,275
1965		86,477
1966		27,063
1967		98,446
1968		72,806
1969		26,887
1970		27,909
1971		37,972
1972		30,326
1973		30,818

1/ Case pack data from Pacific Fisherman Yearbooks. Cases converted to basis of 48-1/2 pound cases.

2/ Data from 1931 to 1959, U. S. Bureau of Commercial Fisheries Annual Management Reports; 1960 - 1971, from Alaska Department of Fish and Game records.

3/ Strike this year.

4/ Alaska Packers Association quit canning razor clams in 1962. Razor clam digs in subsequent years used primarily for crab bait.

APPENDIX TABLE 22. Comparable commercial fishing license statistics, Prince William Sound area, from 1960. 1/ 2/

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
COMMERCIAL												
Resident	601	497	621	728	541	582	653	615	655	763	759	980
Nonresident	566	247	470	574	304	311	330	290	253	321	414	436
	1167	744	1091	1302	845	893	983	905	908	1084	1173	1416
VESSEL												
Resident	493	452	525	590	477	458	529	500	506	557	609	704
Nonresident	312	196	281	327	214	192	166	193	160	173	127	207
	805	648	806	917	691	650	695	693	666	730	736	911
TROLL												
Resident	15	9	6	9	9	3	5	16	23	15	21	21
Nonresident	1	0	2	1	3	0	1	2	2	3	5	0
	16	9	8	10	12	3	6	18	25	18	26	21
LONG LINE												
Resident	6	7	11	13	15	10	36	7	21	29	35	58
Nonresident	2	0	3	5	2	3	2	0	4	4	3	0
	8	7	14	18	17	13	38	7	25	33	38	58
DRIFT GILL NET												
Resident	263	293	315	375	282	298	327	349	347	369	426	479
Nonresident	167	127	170	202	133	132	120	136	116	138	137	173
	430	422	485	577	415	430	447	485	463	507	563	652
SET GILL NET												
Resident	7	42	40	17	23	35	46	10	11	37	35	14
Nonresident	7	8	18	1	2	5	1	1	1	5	3	0
	14	50	58	18	25	40	47	11	12	42	38	14
PURSE SEINE												
Resident	142	97	163	189	167	157	158	146	154	171	175	212
Nonresident	92	23	75	98	65	40	36	43	38	42	44	54
	234	120	238	287	232	197	194	189	192	213	219	266
SHELLFISH POTS												
Resident	33	46	49	36	32	24	36	41	54	67	71	70
Nonresident	14	17	18	19	9	5	1	2	3	2	3	0
	47	63	67	55	41	29	37	43	57	69	74	70
CLAM DIGGER												
Resident	206	165	125	94	105	91	66	97	103	86	77	110
Nonresident	78	61	38	19	16	11	7	9	8	4	11	13
	284	226	163	113	121	102	73	106	111	90	88	123
BEAM TRAWL												
Resident	0	0	0	1	2	3	0	1	1	1	0	1

1/ In addition, two resident otter trawl licenses were issued in 1962, and two resident beach seine licenses in 1969.

2/ One resident otter trawl license and one resident scallop dredge license were issued in 1971.

APPENDIX TABLE 22. cont. Comparable commercial fishing license statistics, Prince William Sound Area, from 1960.

	1972	1973*
COMMERCIAL		
Resident	876	1102
Non-resident	305	479
	1181	1581
VESSEL		
Resident	708	755
Non-resident	205	207
	913	962
TROLL		
Resident	27	27
Non-resident	3	5
	30	32
LONG LINE		
Resident	78	148
Non-resident	5	10
	83	158
DRIFT GILL NET		
Resident	456	549
Non-resident	166	160
	622	709
SET GILL NET		
Resident	41	40
Non-resident	8	6
	49	46
PURSE SEINE		
Resident	47	230
Non-resident	2	46
	49	276
SHELLFISH POTS		
Resident	100	133
Non-resident	5	15
	105	148
CLAM SHOVEL		
Resident	124	135
Non-resident	15	26
	139	161
BEAM TRAWL		
Resident	2	
OTTER TRAWL		
Resident	4	

* Preliminary.

APPENDIX TABLE 23. Wholesale value of all fishery products from the Cordova area, 1960 to present.

Year	King Salmon	Red Salmon	Coho Salmon	Pink Salmon	Chum Salmon	Dungeness Crab	King Crab	Tanner Crab	Razor Clams	Salmon Eggs	Other	Total
1960	$	$	$	$	$	$	$	$	$	$	$	$ 6,261,524
1961												6,870,341
1962												11,535,853
1963	138305	1655287	1037323	4374857	1815988	803897	11961		6942	37687	11090	9,903,346
1964	153399	2505657	1144666	2201892	748082	818188	3857		6306		2243	7,584,289
1965	215700	3257069	330028	2539895	455001	667884			23486	93918	926	7,583,907
1966	170509	4543303	569458	4032879	1094523	231342	17446		3692	150000	8201	10,821,352
1967	153437	2385322	1025806	3381424	772224	635201	8821		9396	111518	673	8,478,413
1968	125398	2544398	1111756	3410782	1052426	637627	107944	10281	7605	233666	2552	9,244,435
1969	189634	4135511	237987	6066784	1011479	139516	520873	202867	2108	446386		12,953,146
1970	369425	4944369	999073	4204539	668104	222991	9161	260110	28763	692701	109136	12,508,372
1971	222822	3133283	1033517	7536091	1212615	180626	37673	142208	13595	963329	1,012,170	15,487,929
1972	545890	6894027	722509	161830	260291	590105	643218	1819317	8351	404623	648,749	12,698,910