ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF COMMERCIAL FISHERIES

# ANNUAL MANAGEMENT REPORT

# 1973

# COOK INLET MANAGEMENT AREA

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Southern, Kamishak, Outer, and Eastern districts - See Table of Contents following page 65 of Section I.

# PREFACE

The 1973 Cook Inlet Annual Management report is divided into two main sections, each having a separate numbering system. The first section (I) of the report gives a general overview on the Cook Inlet Management area and then deals specifically with the salmon gill net fishery of the Northern and Central districts of upper Cook Inlet. The second section (II) presents information on lower Cook Inlet (south of Anchor Point) which includes the Southern, Outer, Kamishak, and Eastern districts. Statistics on the shellfish and herring fisheries as well as the salmon seine fishery appear in Section II.

The statistics on salmon in this report through 1973 can be considered to be final. The statistics on shellfish and miscellaneous fish through 1972 are final; however, 1973 figures are preliminary and subject to minor changes.

Since plans call for dividing the Cook Inlet area into two management areas in 1974, this will be the last Commercial Fisheries Annual Management report that covers both the upper and lower districts of Cook Inlet.

ACKNOWLEDGEMENTS

The Cook Inlet management staff would like to thank Regional Supervisors Kenneth R. Middleton and Steven Pennoyer for their support and leadership during 1973. We would also like to express our appreciation to the research team of Al Davis and Bruce Barrett who supervised much of the field work conducted in the upper Inlet.

1973 Cook Inlet Management Staff

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The staff would also like to acknowledge the many temporary employees who assisted with the various field projects in the Cook Inlet area during 1973. A list of these employees appears in the Appendix of Section I.

We would also like to acknowledge Debby Sickman for her work on typing this report.

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# INTRODUCTION

## Cook Inlet Management Area

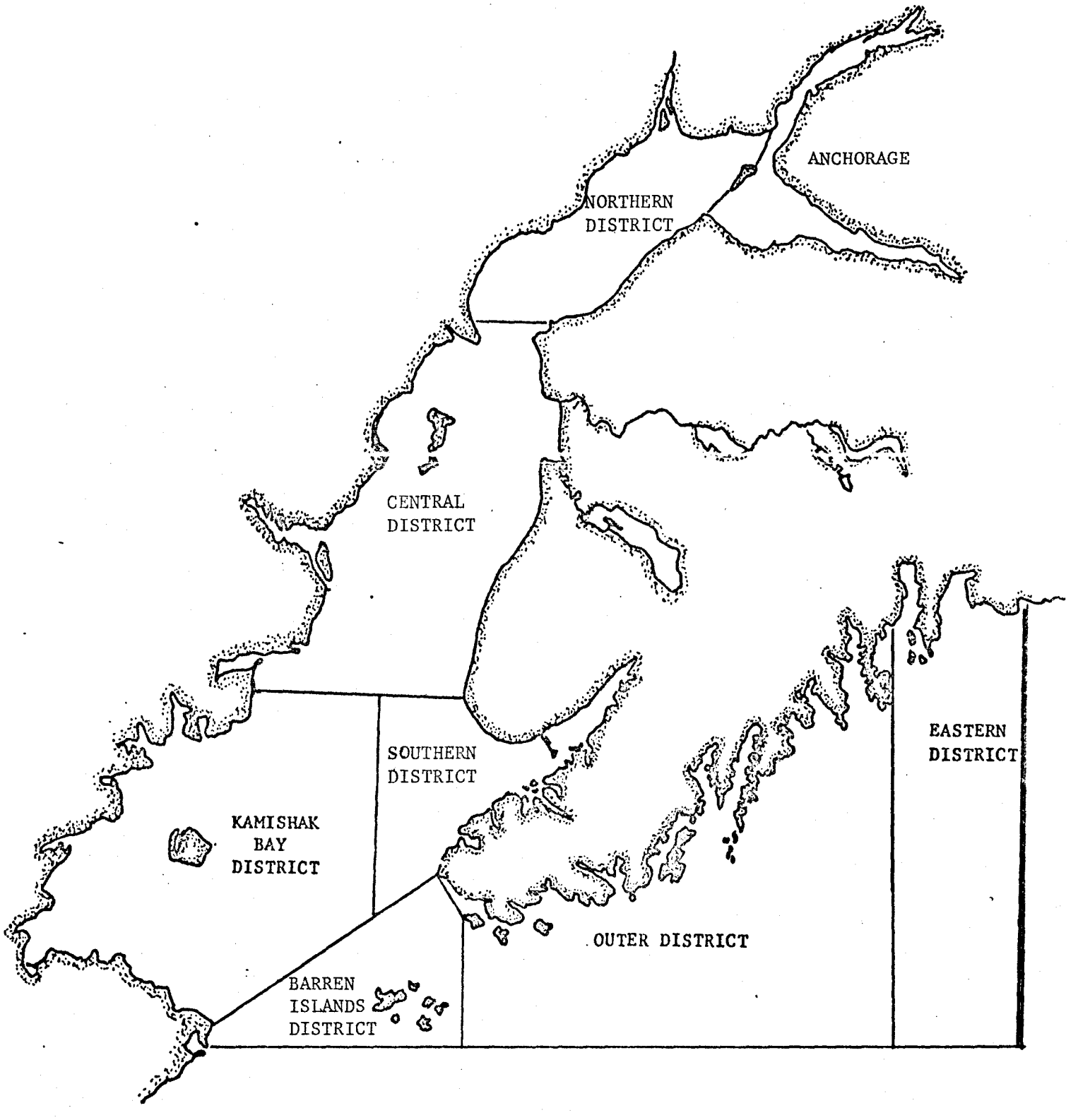
The Cook Inlet area includes, in addition to Cook Inlet, those waters between Cape Douglas on the Alaska Peninsula and Cape Fairfield in Blying Sound east of Seward. There are seven fishing districts in the area: two in Cook Inlet north of Anchor Point (Northern and Central), one in Kachemak Bay near Homer (Southern district), one on the west side of the lower inlet (Kamishak district), one at the mouth of Cook Inlet (Barren Islands), one along the outer coast from Point Adam to Aialik Cape (Outer district), and one south of Seward in the Resurrection Bay-Blying Sound area (Eastern district). (Figure 1)

## Salmon

Salmon were first taken in the area in 1882 although no records of the number of fish harvested are available until 1893. Sockeye salmon have been the dominant species historically, however, in the last 20 years the pink salmon catch has been the greatest. Since 1954 pink salmon have comprised 43% of the total Cook Inlet management area catch, followed by sockeye (29%), chum (21%), coho (6%), and king (1%). (Appendix Table 4) The gill net districts north of Anchor Point harvest all five species of Pacific salmon with the largest overall runs occurring in even-numbered years. Set nets only are allowed in the Northern district (north of Boulder Point) while both set net and drift gear are permitted in the Central district (between Boulder Point and Anchor Point). The proportion of the catch has varied between drift and set net gear with drift gear taking a slightly higher percentage of the catch since 1960. (Appendix Table 3)

Figure 1

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF COMMERCIAL FISHERIES
COOK INLET - RESURRECTION BAY AREA



The Southern district, which is primarily Kachemak Bay, yields mostly pink salmon although other species are harvested. There are about 12 set net sites along the southern shore of the district and they harvest primarily red salmon while the seine fleet relies mostly upon pinks and chums.

Seine gear only is allowed in the Kamishak Bay district and the catch is made up of primarily pink and chum salmon. The Barren Islands district is a shellfish management district and there are no salmon harvested from this area. In the Outer district only seine gear is allowed and the catch is composed of mainly pink and chum salmon. In some years there is a small red salmon fishery in the Nuka Bay area. The Eastern district is the least important commercial salmon district in the Cook Inlet management area. There are fair pink runs in some even years. The district has potential for sockeye salmon production, however, the main producing system, Bear Lake, is presently being managed for silver salmon by the Sport Fish Division.

Shellfish

King crab, tanner crab, dungeness crab, and shrimp are harvested commercially in the Southern, Outer, Kamishak, Barren Islands, and Eastern districts. There is virtually no fishing for these species north of Anchor Point although they are all known to exist in the Central district.

King crab were first fished commercially in 1951 and since 1960 the catch has averaged about 4.6 million pounds. Tanners were first fished commercially in 1968 and since that year the average catch has been 3.6 million pounds.

There was an active trawl fishery for shrimp in lower Cook Inlet during the early sixties before the earthquake destroyed processing facilities in Seldovia and Seward. The fishery resumed in 1969 in Kachemak Bay and is now under a 5.0 million pound annual quota. The pot shrimp fishery is expanding rapidly in Kachemak Bay and quota management is likely in the near future.

The Cook Inlet dungeness crab fishery has taken place almost entirely within Kachemak Bay and catches have been sporadic. The catch has averaged about 300 thousand pounds since 1961 with the peak production of 1.7 million pounds occurring in 1963.

The razor clam fishery has been insignificant since the early sixties when there was a substantial fishery at Polly Creek. The stocks are in excellent shape at Polly Creek and as soon as market conditions and restrictive health regulations are straightened out this fishery will become active again.

Other Fisheries

The only other significant fishery in Cook Inlet at the present time is the herring fishery, primarily directed at sac roe. This fishery has developed since 1969 and fishing effort was primarily concentrated in Resurrection and Kachemak Bay until this year when it expanded into the Outer and Kamishak Bay districts. The fishery has been almost exclusively seine, however, this year there was a limited gill net fishery in the Central district.

There is a substantial subsistence fishery in Cook Inlet which takes place primarily along the east shore of the inlet and in Kachemak and Resurrection Bays. Salmon, shellfish, herring, smelt, and bottomfish are all taken at various seasons of the year.

## 1973 SEASON SUMMARY

### Salmon Fishery

The 1973 commercial salmon catch for the Cook Inlet area totaled 2,227,767 and was the highest odd-year average since 1955. (Appendix Table 4)

The catch by species was 5,339 kings (.24%), 699,234 sockeye (31,38%), 106,521 cohos (4.78%), 633,587 pinks (28.45%), and 783,086 chums (35.15%).

The Central district contributed the largest share of the catch with 1,535,560 total salmon (68.93%) followed by the Outer district 278,695 salmon (12.51%), Northern district 237,836 salmon (10.68%), Southern district 126,614 salmon (5.68%), Kamishak district 58,181 salmon (2.16%), and finally the Eastern district with 808 salmon (.04%).

The drift gill net catch accounted for 1,105,362 salmon (49.62%), set nets took 715,896 salmon (32.13%), seines 405,701 salmon (18.21%) and troll gear accounted for 808 salmon (.04%).

Salmon gear registrations for 1973 totaled 1,559, up 178 from 1972. The registration by gear was 662 drift, 775 set net, 91 seine, and 31 troll. Of the total 1973 registrations for all salmon gear 88% were residents and 12% non-residents. Appendix Table 2 shows salmon gear registrations by category and the amount of active gear or gear fished for each year since 1966.

### Shellfish Fishery

This section of the report is presented as an overview of the Cook Inlet shell fisheries. More detailed information is presented in Section II of this report.

There was a dramatic increase in shellfish pot registrations in 1973. A record high of 186 shellfish pot licenses were were sold in 1973 compared to a previous high of 124 during 1971. (Appendix Table 1) The Limited Entry program was largely responsible for this increase. Fishermen were afraid that if they did not register for 1973 they would not be eligible for a permit in future years.

The total shellfish harvest for 1973 was 18.1 million pounds. The shellfish harvest by species was 8.5 million pounds of tanner crab, 4.4 million pounds of king crab, 310 thousand pounds of dungeness crab, 4.9 million pounds of shrimp, and 34 thousand pounds of razor clams. The total value to fishermen of all shellfish products was approximately 5 million dollars. Two management districts, the Southern (Kachemak Bay) and Kamishak, contributed about 90% of the total Cook Inlet shellfish catch.

Herring Fishery

The 1973 herring harvest of 3.2 million pounds (1600 tons) was the second highest in recent Cook Inlet history, exceeded only by the 1970 catch of 9.6 million pounds (4,800 tons). All management districts except the Northern and Barren Islands districts contributed to the catch with the largest share coming from the Eastern district (49%).

## SALMON FISHERY

### Northern District

Commercial Fishery: A total of 237,836 salmon were harvested from the Northern district in 1973. This was the best odd-year catch for the Northern district since 1959 and the second best catch on record since 1954. (Appendix Table 5) The catch by species was 170 kings; 45,614 sockeye; 23,951 coho; 137,250 pinks, and 30,851 chums.

The king salmon catch was the second lowest on record, mainly due to the late opening (July 2). The sockeye catch was comparable to recent odd years although it was a little less than half the 20-year average. The coho catch was the best since 1970 although it was still about 12 thousand below the odd-year average. The pink catch was the highest odd-year catch by far in the history of Cook Inlet. The chum catch was the best odd year catch since 1967 although it was still about 10 thousand below the odd-year average. The 1973 Northern district catch by period, by species appears in Table 1.

There were four emergency orders issued for the Northern district during the 1973 salmon season. These emergency orders are discussed in detail under the Central district salmon fishery section.

### Field Operations

Effort Surveys: Aerial surveys of the fishery were made periodically during the season in order to assess the amount of gear in use. The first survey was conducted on July 2 and the last on August 13. Table 2 lists each survey by date broken down by section of beach. Peak effort occurred on July 23 when 317 nets were counted in the waters of the Northern district.

Table 1.
1973 Cook Inlet salmon catch[1/]
by species
Northern District

| Date | Period | Kings | Reds | Cohos | Pinks | Chums | Totals |
|---|---|---|---|---|---|---|---|
| June 25 | 01 | 9 | 7 | | 1 | | 17 |
| 29 | 02 | | 29 | | 21 | | 50 |
| July 2 | 03 | 30 | 249 | 10 | 846 | 4 | 1,139 |
| 6 | 04 | 29 | 2,683 | 37 | 9,150 | 100 | 11,999 |
| 9 | 05 | 30 | 8,383 | 785 | 19,294 | 2,231 | 30,723 |
| 13 | 06 | 14 | 6,357 | 1,299 | 29,669 | 273 | 37,612 |
| 16 | 07 | 17 | 4,731 | 1,431 | 29,039 | 493 | 35,711 |
| 18 | 08[2/] | 11 | 5,407 | 2,873 | 24,718 | 686 | 33,695 |
| 20 | 09[2/] | 9 | 5,720 | 2,781 | 9,590 | 2,514 | 20,614 |
| 23 | 10 | 7 | 8,456 | 5,433 | 10,650 | 6,386 | 30,932 |
| 25 | 11 | 4 | 2,220 | 3,797 | 2,189 | 2,205 | 10,415 |
| 27 | 12 | 2 | 517 | 1,521 | 903 | 1,671 | 4,614 |
| 30 | 13 | 4 | 301 | 603 | 497 | 177 | 1,582 |
| Aug. 1 | 14 | 2 | 286 | 1,216 | 313 | 6,186 | 8,003 |
| 3 | 15 | 1 | 61 | 161 | 84 | 127 | 434 |
| 6 | 16 | | 117 | 490 | 105 | 4,470 | 5,182 |
| 8 | 17 | 1 | 67 | 590 | 128 | 2,768 | 3,554 |
| 10 | 18 | | 15 | 175 | 48 | 283 | 521 |
| 13 | 19 | | 4 | 40 | 3 | 82 | 129 |
| 17 | 20 | | 1 | 12 | 2 | 10 | 25 |
| 20 | 21 | | 1 | 102 | | 116 | 219 |
| 24 | 22 | | 1 | 107 | | 64 | 172 |
| 27 | 23 | | 1 | 90 | | 3 | 94 |
| 31 | 24 | | | | | | |
| Sept. 3 | 25 | | | 70 | | | 70 |
| 7 | 26 | | | 58 | | | 58 |
| 10 | 27 | | | 79 | | | 79 |
| 14 | 28 | | | 37 | | 1 | 38 |
| 17 | 29 | | | 51 | | 1 | 52 |
| 21 | 30 | | | 103 | | | 103 |
| TOTALS: | | 170 | 45,614 | 23,951 | 137,250 | 30,851 | 237,836 |

[1/] Compiled from 1973 IBM statistical run by H. Vanderbrink, 10-24-74.
[2/] 6-hour period.

Table 2. Aerial surveys of the Northern district, Cook Inlet, 1973.

| Date | Units of set net gear[1/] | | | |
|---|---|---|---|---|
| | Fire Island | East side | West side | Total |
| 7/2 | 2 | 73 | 40 | 115 |
| 7/9 | 10 | 111 | 115 | 236 |
| 7/16 | 8 | 107 | 136 | 251 |
| 7/18 | 2 | 86 | 116 | 204 |
| 7/23 | 17 | 133 | 167 | 317 |
| 7/30 | 3 | 64 | 45 | 112 |
| 8/13 | 0 | --- | 27 | 27 |

[1/] One unit equals 35 fathoms.

Talachulitna Tower: A counting tower was in operation at the mouth of the Talachulitna River for the second year in a row. An estimated 113 thousand salmon passed into the Talachulitna while the tower was in operation from July 5 to August 14. The primary species passing the tower were pink salmon (92,496) and sockeye salmon (19,727). Table 3 gives the daily counts by species for 1973.

Fish Creek: A total of 2,705 sockeye salmon were counted through the Fish Creek weir during 1973 while the weir was in operation from July 1 through September 6. Appendix Table 9 shows the dates of the operation, the count by species, and the method of enumeration for each year from 1936 to 1973.

Field operations conducted in the Northern district are reported on in more detail in the 1973 Cook Inlet Sockeye Salmon Technical Report by Davis, Barrett, Barton (in press).

Central District

A total of 1,535,560 salmon were harvested from the Central district in 1973. The catch by species was 5,024 kings; 624,411 sockeye; 80,469 cohos; 188,934 pinks; and 636,722 chums. The total catch was the best for an odd year since 1967 and was about 200 thousand above the average odd-year catch since 1954. Appendix Table 6 presents the salmon catch by species for the Central district from 1954 through 1973.

The 1973 catch by species by date for the Central district appears in Table 4 and the catch by gear in Table 5. The king salmon catch of 5,024 was the lowest since 1968 and was about 10 thousand below the average catch since 1954. A major factor in the low catch was the late opening date of June 25 which eliminated any harvest from the early run of kings.

Table 3 . Talachulitna River salmon escapement by species, as derived from tower count data, 1973.

| Date | Sockeye # of Fish | Pink # of Fish | Chum # of Fish | Coho # of Fish | King # of Fish |
|---|---|---|---|---|---|
| July | | | | | |
| 5 | | | | | 3 |
| 6 | | | | | 1 |
| 7 | | | | | 0 |
| 8 | | | | | 0 |
| 9 | | | | | 0 |
| 10 | | | | | 0 |
| 11 | 9 | 7 | | | 39 |
| 12 | 65 | 100 | | | 55 |
| 13 | 51 | 53 | | | 8 |
| 14 | 117 | 77 | 4 | | 9 |
| 15 | 307 | 893 | 8 | | 13 |
| 16 | 1,219 | 1,360 | 1 | | 33 |
| 17 | 1,878 | 1,672 | 32 | | 9 |
| 18 | 1,580 | 761 | 12 | | 1 |
| 19 | 3,789 | 2,235 | 24 | | 21 |
| 20 | 2,228 | 2,843 | 25 | | 8 |
| 21 | 1,141 | 2,797 | 24 | | 11 |
| 22 | 1,008 | 6,262 | 39 | | 17 |
| 23 | 719 | 1,992 | 29 | | 8 |
| 24 | 651 | 1,206 | 12 | | 11 |
| 25 | 731 | 6,553 | 27 | | 13 |
| 26 | 560 | 4,264 | 33 | | 11 |
| 27 | 399 | 2,795 | 21 | | 3 |
| 28 | 604 | 2,661 | 12 | | -1 |
| 29 | 359 | 2,277 | 9 | | 5 |
| 30 | 227 | 2,261 | 35 | | 1 |
| 31 | 159 | 3,014 | 9 | | 3 |
| August | | | | | |
| 1 | 417 | 3,445 | 31 | | 1 |
| 2 | 407 | 4,387 | 24 | | 0 |
| 3 | 257 | 4,358 | 51 | 1 | 3 |
| 4 | 188 | 4,609 | 31 | 0 | 1 |
| 5 | 205 | 6,221 | 36 | 0 | 0 |
| 6 | 101 | 3,224 | 27 | 3 | 1 |
| 7 | 159 | 2,869 | 16 | 0 | 1 |
| 8 | 41 | 2,722 | 17 | 0 | 0 |
| 9 | 57 | 2,618 | 28 | 0 | 1 |
| 10 | 27 | 2,584 | 12 | 0 | 0 |
| 11 | 24 | 3,233 | 15 | 0 | 3 |
| 12 | 15 | 2,009 | 24 | 1 | -1 |
| 13 | 15 | 1,898 | 20 | 2 | 0 |
| 14 | 16 | 1,736 | 19 | 1 | 4 |
| TOTAL: | 19,727 | 92,496 | 707 | 8 | 291 |

Table 4.
1973 Cook Inlet salmon catch[1/]
by species, by period.
Central District

| Date | Period | Kings | Reds | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|---|
| June 25 | 1 | 409 | 2,128 | | 227 | 48 | 2,802 |
| 29 | 2 | 110 | 5,205 | 11 | 1,434 | 154 | 6,914 |
| July 2 | 3 | 142 | 13,315 | 82 | 4,848 | 1,280 | 19,667 |
| 6 | 4 | 361 | 41,635 | 804 | 34,521 | 5,431 | 82,752 |
| 9 | 5 | 551 | 68,304 | 2,562 | 19,033 | 5,948 | 96,398 |
| 13 | 6 | 377 | 154,337 | 8,017 | 57,470 | 21,153 | 241,354 |
| 16 | 7 | 235 | 111,224 | 7,494 | 50,835 | 18,986 | 188,774 |
| 18 | 8[2/] | 185 | 78,486 | 5,567 | 9,395 | 14,713 | 108,346 |
| 20 | 9[2/] | 243 | 45,843 | 4,142 | 3,673 | 13,060 | 66,961 |
| 23 | 10 | 436 | 45,467 | 6,515 | 4,810 | 85,952 | 143,180 |
| 25 | 11 | 365 | 22,392 | 4,391 | 1,223 | 58,872 | 87,243 |
| 27 | 12 | 254 | 11,219 | 3,638 | 550 | 86,625 | 102,286 |
| 30 | 13 | 315 | 11,889 | 6,588 | 330 | 129,752 | 148,874 |
| Aug. 1 | 14 | 364 | 6,404 | 4,415 | 179 | 55,804 | 67,166 |
| 3 | 15 | 269 | 3,072 | 3,840 | 151 | 67,186 | 74,518 |
| 6 | 16 | 140 | 1,717 | 3,515 | 65 | 14,982 | 20,419 |
| 8 | 17 | 138 | 950 | 2,554 | 60 | 22,644 | 26,346 |
| 10 | 18 | 28 | 521 | 2,594 | 52 | 20,329 | 23,524 |
| 13 | 19 | 33 | 168 | 2,385 | 33 | 6,709 | 9,328 |
| 17 | 20 | 27 | 66 | 1,971 | 23 | 4,909 | 6,996 |
| 20 | 21 | 25 | 44 | 2,068 | 10 | 1,505 | 3,652 |
| 24 | 22 | 11 | 14 | 1,727 | 3 | 425 | 2,180 |
| 27 | 23 | 3 | 3 | 781 | 8 | 223 | 1,018 |
| 31 | 24 | 1 | 1 | 524 | 1 | 4 | 531 |
| Sept. 3 | 25 | 1 | 3 | 849 | | 29 | 882 |
| 7 | 26 | | 2 | 780 | | 1 | 783 |
| 10 | 27 | | 1 | 1,051 | | 3 | 1,055 |
| 14 | 28 | 1 | | 608 | | 2 | 611 |
| 17 | 29 | | | 422 | | 1 | 423 |
| 21 | 30 | | | 398 | | 2 | 400 |
| 24 | 31 | | 1 | 175 | | | 176 |
| 28 | 32 | | | 1 | | | 1 |
| | TOTAL | 5,024 | 624,411 | 80,469 | 188,934 | 636,722 | 1,535,560 |

[1/]Compiled from 1973 IBM Statistical run by H. Vanderbrink; 10-29-74.
[2/]6-hour period

Table 5.
1973 Cook Inlet salmon catch[1/]
by species, drift and set net gear
Central District

| Date | Period | Kings | Reds | Cohos | Pinks | Chums | Totals |
|---|---|---|---|---|---|---|---|
| June 25 | 1 drift | 5 | 51 | | 8 | 15 | 79 |
| | set | 404 | 2,077 | | 219 | 23 | 2,723 |
| June 29 | 2 drift | 3 | 220 | 1 | 66 | 42 | 332 |
| | set | 107 | 4,985 | 10 | 1,368 | 112 | 6,582 |
| July 2 | 3 drift | 17 | 3,976 | 34 | 1,467 | 1,068 | 6,562 |
| | set | 125 | 9,339 | 48 | 3,381 | 212 | 13,105 |
| July 6 | 4 drift | 32 | 18,782 | 478 | 5,800 | 5,160 | 30,252 |
| | set | 329 | 22,853 | 326 | 28,721 | 271 | 52,500 |
| July 9 | 5 drift | 29 | 40,623 | 1,245 | 12,129 | 5,280 | 59,306 |
| | set | 522 | 27,681 | 1,317 | 6,904 | 668 | 37,092 |
| July 13 | 6 drift | 10 | 127,010 | 6,352 | 43,911 | 20,041 | 197,324 |
| | set | 367 | 27,327 | 1,665 | 13,559 | 1,112 | 44,030 |
| July 16[2/] | 7 drift | 4 | 84,701 | 4,906 | 19,469 | 18,044 | 127,124 |
| | set | 231 | 26,523 | 2,588 | 31,366 | 942 | 61,650 |
| July 18[2/] | 8 drift | 6 | 49,818 | 2,778 | 3,423 | 13,420 | 69,445 |
| | set | 179 | 28,668 | 2,789 | 5,972 | 1,293 | 38,901 |
| July 20 | 9 drift | 29 | 22,890 | 2,128 | 2,668 | 12,155 | 39,870 |
| | set | 214 | 22,953 | 2,014 | 1,005 | 905 | 27,091 |
| July 23 | 10 drift | 45 | 14,076 | 2,802 | 1,724 | 83,773 | 102,420 |
| | set | 391 | 31,391 | 3,713 | 3,086 | 2,179 | 40,760 |
| July 25 | 11 drift | 19 | 5,844 | 2,411 | 744 | 57,780 | 66,798 |
| | set | 346 | 16,548 | 1,980 | 479 | 1,092 | 20,445 |
| July 27 | 12 drift | 6 | 2,647 | 977 | 148 | 85,330 | 89,108 |
| | set | 248 | 8,572 | 2,661 | 402 | 1,295 | 13,178 |
| July 30 | 13 drift | 9 | 3,425 | 2,425 | 107 | 126,649 | 132,615 |
| | set | 306 | 8,464 | 4,163 | 223 | 3,103 | 16,259 |
| Aug. 1 | 14 drift | 8 | 658 | 759 | 88 | 53,165 | 54,678 |
| | set | 356 | 5,746 | 3,656 | 91 | 2,639 | 12,488 |
| Aug. 3 | 15 drift | 12 | 686 | 942 | 49 | 64,983 | 66,672 |
| | set | 257 | 2,386 | 2,898 | 102 | 2,203 | 7,846 |
| Aug. 6 | 16 drift | 6 | 87 | 532 | 24 | 11,491 | 12,140 |
| | set | 134 | 1,630 | 2,983 | 41 | 3,491 | 8,279 |
| Aug. 8 | 17 drift | 2 | 145 | 432 | 23 | 20,709 | 21,311 |
| | set | 136 | 805 | 2,122 | 37 | 1,935 | 5,035 |
| Aug. 10 | 18 drift | 1 | 38 | 657 | 21 | 16,325 | 17,042 |
| | set | 27 | 483 | 1,937 | 31 | 4,004 | 6,482 |
| Aug. 13 | 19 drift | | 6 | 103 | 7 | 2,225 | 2,341 |
| | set | 33 | 152 | 1,358 | 18 | 870 | 2,431 |
| Aug. 17 | 20 drift | 1 | 1 | 381 | 12 | 3,301 | 3,696 |
| | set | 26 | 65 | 1,590 | 11 | 1,608 | 3,300 |
| Aug. 20 | 21 drift | | 1 | 344 | 5 | 1,034 | 1,384 |
| | set | 25 | 43 | 1,724 | 5 | 471 | 2,268 |
| Aug. 24 | 22 drift | | | 101 | | 62 | 163 |
| | set | 11 | 14 | 1,626 | 3 | 363 | 2,017 |
| Aug. 27 | 23 drift | | | 60 | | 72 | 132 |
| | set | 3 | 3 | 721 | 8 | 151 | 886 |

Table 5 continued:

| Date | Period | Kings | Reds | Cohos | Pinks | Chums | Totals |
|---|---|---|---|---|---|---|---|
| Aug. 31 | 24 drift | | | 12 | | | 12 |
| | set | 1 | 1 | 512 | 1 | 4 | 519 |
| Sept. 3 | 25 drift | | | | | | 0 |
| | set | 1 | 3 | 849 | | 29 | 882 |
| Sept. 7 | 26 drift | | | | | | 0 |
| | set | | 2 | 780 | | 1 | 783 |
| Sept.10 | 27 drift | | | | | | 0 |
| | set | | 1 | 1,051 | | 3 | 1,055 |
| Sept.14 | 28 drift | | | | | | 0 |
| | set | 1 | | 608 | | 2 | 611 |
| Sept.17 | 29 drift | | | | | | 0 |
| | set | | | 422 | | 1 | 423 |
| Sept.21 | 30 drift | | | | | | 0 |
| | set | | | 398 | | 2 | 400 |
| Sept 24 | 31 drift | | | | | | 0 |
| | set | | 1 | 175 | | | 176 |
| Sept 28 | 32 drift | | | | | | 0 |
| | set | | | 1 | | | 1 |
| Total drift | | 244 | 375,695 | 31,784 | 91,901 | 605,738 | 1,105,362 |
| Total set | | 4,780 | 248,716 | 48,685 | 97,033 | 30,984 | 430,198 |
| TOTAL CENTRAL | | 5,024 | 624,411 | 80,469 | 188,934 | 636,722 | 1,535,560 |

1/ Source: 1973 IBM statistical run.
2/ 6-hour period.

The sockeye catch of 642,411 was about 270 thousand below the 20-year average and was second lowest since 1960. Fishing time was held down and as a result good escapements were achieved in most systems for the third year in succession. The coho catch of 80,469 was about 60 thousand below the long-term average and was nearly identical to the last two odd years (1971: 78,542; 1969: 80,527). The coho catch would have been somewhat higher had fishing time not been severely restricted during August in an attempt to achieve more escapement into the Northern district. The pink salmon and chum salmon catches during 1973 represented the only bright spots in the Central district catch. The pink catch of 188,934 was the highest odd-year catch in Cook Inlet's history while the chum catch of 636,722 was the second highest in the Inlet's history for an odd year, exceeded only by the 1957 catch of 900 thousand. The chum catch was also over 100 thousand above the 20-year average, for both even and odd years, in the Central district.

There were five emergency orders issued for the Central district during the 1973 salmon season. The first emergency order opened the Central and Northern districts to a six-hour fishing period on Wednesday, July 18 from 3:00 P.M. to 9:00 P.M. The justification and reasoning behind this opening was (1) Sockeye salmon escapement into the Kenai River system was three times the average for the time of year. (2) Aerial observations indicated that the drift fleet missed the main concentration of sockeye in the Inlet on the previous Monday period and thus the catch was not an accurate portrayal of the run strength. (3) We felt that if we waited until Friday, sockeye in the Inlet might school up and concentrate off of Kalgin Island as they did in 1971, with the result of a

possible overharvest on certain stocks. (4) We wanted to evaluate the effectiveness of a six-hour period for management purposes. (5) There was an excellent odd-year pink run on and we wanted to better assess the timing and strength of this run. (6) The time (3:00 P.M.-6:00 P.M.) was selected so that all areas had some flood fishing with the northern parts of the district getting the best tides with the hope that proportionally a greater harvest would be achieved from the strong Kenai River sockeye run. (7) With a six-hour period on Wednesday we retained three options (a) fish a six-hour period on Friday, thus keeping total fishing time the same as established (12 hours); (b) add six hours and go with a 12-hour period on Friday if the Kasilof escapement picked up considerably; (c) delete Friday's period entirely if catch and escapement indicies were poor.

The catch (78 thousand sockeye) from Wednesday's six-hour period indicated a fair size body of sockeye in the district, however, escapement in the Kasilof did not increase substantially. The second emergency order of the season reduced fishing time in the gill net districts to six hours on Friday, July 20th. The justification and reasoning behind the six-hour fishing period on Friday was (1) Some fishing time was justified because of the strong run of sockeye to the Kenai River. (2) The sockeye catch of 78 thousand from the 6-hour period on Wednesday was considered to be good especially since the drift fleet was scattered from 15 miles north to 15 miles south of Kalgin Island. (3) A full 12-hour period could not be justified because of the continued weakness in the Kasilof sockeye run. (4) The alternative of not fishing at all on Friday and waiting until Monday was considered and the drawbacks of this action

were (a) The possibility of plugging the Kenai with sockeye (overescapement). (b) Inadequate assessment of Northern district sockeye run. (c) Inadequate assessment and harvest of apparent strong odd-year pink run. (d) The danger of sockeye stocks schooling off of Kalgin Island as they did in 1971, with the result of a possible over harvest of certain stocks. (5) The time of 6:00 A.M. to 12:00 noon was selected because (a) Set nets below Kasilof would have only ebb fishing and thus would not be too effective on Kasilof stocks which we were trying to protect. (b) Salamatoff set nets would have about one hour of flood and then some ebb fishing which we felt would result in a good harvest on Kenai stocks. (c) The Northern district would have three to four hours of flood fishing to harvest the strong pink run and provide some assessment at the peak of the sockeye run.

It is quite evident, as illustrated by the above discussion, that a major management problem arises when the strength of the Kenai and Kasilof River sockeye runs differ. We learned that our management subdistricts are useless, as they are presently established, when trying to control or adjust the harvest to the two different river systems. The basic problem lies in the fact that the mouths of the Kenai and Kasilof Rivers enter the same subdistrict (Kalifonsky). It was felt at the time that a major improvement in the subdistricts would be to establish a boundry line at the approximate middle of Kalifonsky beach, thus creating separate fishing districts for the Kenai and Kasilof Rivers.

The third emergency order affecting the Central and Northern districts was effective on July 25 and opened the Inlet to three, 12-hour periods per week. The justification and reasoning behind this action was:

(1) The catches from the previous period indicated that the sockeye run had peaked and was dropping off rapidly. (2) The Kasilof sockeye run was thought to be pretty well over, however, the catch distribution indicated some Kenai sockeyes still present in the upper Inlet along Salamatof beach and at the Kenai River mouth. (3) The chum salmon catch from the previous period was good and additional harvest on chums was warranted. (4) A drop in fishing effort was anticipated.

The fourth emergency order, effective on August 8, deleted the Wednesday fishing period in Chinitna Bay. The justification was poor chum salmon escapement at the head of Chinitna Bay coupled with increased effort in the bay.

The fifth and final emergency order affecting the Inlet fishery was effective on Wednesday, August 15. This action deleted the extra Wednesday 12-hour fishing periods in the gill net districts for the remainder of the season. The justification was (1) Poor coho salmon escapement in the Northern district. (2) The chum salmon run was over.

Field Operations

Escapement: The 1973 sockeye salmon escapement into the Kenai River was the highest recorded since sonar counters were first installed in 1968. The total sonar count was 380,866 with fishwheel apportionment resulting in a sockeye count of 368,369. (Table 6) A very large number of these sockeye spawned in main stem of the Kenai River between Cooper Landing and Skilak Lake. The late run escapement into the Russian River system of only 24,974 and the total index count from other Kenai clear water systems of 15,745 did not reflect the magnitude of the total run into the Kenai system. Ordinarily the Russian River system contributes

Table 6 . Sonar counts apportioned by fishwheel catches from Kenai River, 1973.

| SONAR | | | FISHWHEEL | | | |
|---|---|---|---|---|---|---|
| South Bank | North Bank | Total | | | | |
| June 16 - July 14 | | | | Sockeye | Other | Total |
| 20,098 | 49,882 | 69,980 | % | 97.3 | 2.7 | |
| | | | F.W. Catch | 180 | 5 | 185 |
| | | | Sonar Count (Weighted) | 68,091 | 1,889 | |
| July 15 - July 20 | | | | | | |
| 28,968 | 44,909 | 73,877 | % | 96.4 | 3.6 | |
| | | | F.W. Catch | 159 | 6 | 165 |
| | | | Sonar Count (Weighted) | 71,217 | 2,660 | |
| July 21 - July 23 | | | | | | |
| 27,131 | 63,892 | 91,023 | % | 96.3 | 3.7 | |
| | | | F.W. Catch | 235 | 9 | 244 |
| | | | Sonar Count (Weighted) | 87,655 | 3,368 | |
| July 24 - July 25 | | | | | | |
| 18,322 | 42,758 | 61,080 | % | 99.4 | .6 | |
| | | | F.W. Catch | 174 | 1 | 175 |
| | | | Sonar Count (Weighted) | 60,714 | 366 | |
| July 26 - July 28 | | | | | | |
| 15,629 | 33,633 | 49,262 | % | 96.8 | 3.2 | |
| | | | F.W. Catch | 184 | 6 | 190 |
| | | | Sonar Count (Weighted) | 47,686 | 1,576 | |
| July 29 - Aug. 8 | | | | | | |
| 13,259 | 22,385 | 35,644 | % | 92.6 | 7.4 | |
| | | | F.W. Catch | 175 | 14 | 189 |
| | | | Sonar Count (Weighted) | 33,006 | 2,638 | |
| TOTAL 123,407 | 257,459 | 380,866 | | 368,369 | 12,497 | |

a substantial percentage of the total Kenai sockeye escapement; however, during 1973 it accounted for only 7%. By way of comparison the percentages for other years are 1972 - 29%; 1970 - 42%; 1969 - 56%; and 1968 - 43%. There is no useable data for 1971 as the sonar counters malfunctioned that year. Russian River sockeye escapement data since 1960 appears in Appendix Table 10.

The total sonar tally over the Kasilof River counters was 41,957 during 1973 with the fishwheel apportionment resulting in a sockeye count of 40,189. (Table 7) This was the second lowest escapement recorded since sonar counters were installed in 1968. The index count, derived from ground surveys in the clearwater streams which flow into Tustumena Lake, was 25,083, or about 12,000 below the average count since surveys began in 1966. In comparing the 1973 index count with the eight years for which survey data is available it ranks as the 5th highest or, if you prefer, the 4th lowest on record. (Appendix Table 11)

Sonar counts for the Kenai and Kasilof Rivers by date since 1968 appear in Appendix Tables 14 through 17.

Effort surveys: Aerial surveys to determine fishing effort and catch distribution commenced on July 2 and ended on August 13. The number of drift boats as well as the number of set nets observed fishing were recorded on eleven different surveys during the season. The results of these 1973 effort surveys appear in Table 8.

Scale sampling: (1) Commercial catch - Sockeye salmon taken in the Central district were sampled for age,length, and sex after each fishing period. Samples were taken from both the set net and drift fishery. Appendix Table 18 gives the age data for sockeye harvested in the Central

Table 7. Sonar counts apportioned by fishwheel catches on the Kasilof River, 1973.

| SONAR | | | FISHWHEEL | | | |
|---|---|---|---|---|---|---|
| South Bank | North Bank | Total | | | | |
| June 19 - July 14 | | | | Sockeye | Other | Total |
| -0- | 19,268 | 19,268 | % | 95.3 | 4.7 | |
| | | | F.W. Catch | 163 | 8 | 171 |
| | | | Sonar Counts (Weighted) | 18,362 | 906 | |
| July 15 - Aug. 4 | | | | | | |
| 2,539 | 20,150 | 22,689 | % | 96.2 | 3.8 | |
| | | | F.W. Catch | 276 | 11 | 287 |
| | | | Sonar Counts (Weighted) | 21,827 | 862 | |
| TOTAL: | | | | | | |
| 2,539 | 39,418 | 41,957 | | 40,189 | 1,768 | |

Table 8. Aerial surveys of Central district, Cook Inlet, 1973.

| Date | Units of Set Net Gear[1] | | | | | Drift Units[2] |
|---|---|---|---|---|---|---|
| | Ninilchik to Kasilof | Kalifonsky | Kenai to Boulder Point | Kalgin Island | Lower West Side[4] | Central Drift Boats[3] |
| 7/2 | 133 | 19 | 41 | 59 | 82 | 45 |
| 7/6 | 223 | 47 | --- | 31[5] | --- | 175 |
| 7/9 | 332 | 99 | 133 | 50[5] | --- | 271 |
| 7/13 | 256 | 76 | 116 | --- | --- | 360 |
| 7/16[6] | 297 | 83 | --- | --- | --- | 404 |
| 7/16[7] | 310 | 81 | 101 | 89 | --- | 400 |
| 7/18 | 264 | 80 | 118 | 51[5] | --- | 387 |
| 7/20 | --- | --- | 127 | 71 | --- | 389 |
| 7/23 | --- | --- | --- | --- | --- | 350 |
| 7/25 | --- | --- | 123 | --- | --- | 225 |
| 8/13 | 53 | 23 | 22 | 10 | 76 | --- |

[1] One unit equals 35 fathoms.
[2] One unit equals 150 fathoms.
[3] Total observed not necessarily total fished.
[4] Harriet Point to Chinitna Bay.
[5] East side only.
[6] AM low tide.
[7] PM high tide.

district from 1967 to 1973. The 1973 data showed the highest percentage of 5 year old sockeye (83.3%) and the lowest percentage of 4 year old sockeye (5.6%) recorded in the commercial catch since 1967.

(2) River systems - Scale samples have been taken from sockeye salmon entering the Kenai and Kasilof Rivers since 1966. A comparison of 1973 Kenai River data with other years shows a higher percentage of 5 year sockeye (76.6%) and a lower percentage of 4 year sockeye (6.0%) than has previously been recorded. (Appendix Table 19)

The data from the Kasilof River also showed a high percentage of 5 year sockeye (76%) when compared with previous years. (Appendix Table 20) Detailed information on the sonar operations and on commercial and river catch sampling occurs in the 1973 Cook Inlet Sockeye Forecast and Optimum Escapement report. (Davis et al.)

Test Fishing and Beach Survey: Test fishing operations were limited to only the Kenai and Kasilof Rivers during 1973 and no attempt was made to test fish during closed commercial periods in the Inlet. The beach survey was conducted in the same manner as previous years from Ninilchik to the Kenai River mouth. The results of these two operations will be summarized in the 1974 Upper Cook Inlet Annual Management Report.

Appendix
Table 1. Cook Inlet Commercial, Gear and Vessel licenses by year, 1968--1973.

| Code | Gear Type | | 1968 | | 1969 | | 1970 | | 1971 | | 1972 | | 1973 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | Hand Purse Seine | R | 85 | | 72 | | 86 | | 80 | | 71 | | 78 | |
| | | N | 6 | (91)[1/] | 3 | (75) | 3 | (89) | 1 | (81) | 1 | (72) | 1 | (79) |
| 02 | Beach Seine | R | 4 | | 19 | | 18 | | 17 | | 13 | | 12 | |
| 03 | Drift Gill Net | R | 407 | | 479 | | 537 | | 519 | | 419 | | 516 | |
| | | N | 204 | (611) | 208 | (687) | 220 | (757) | 191 | (710) | 152 | (571) | 146 | (662) |
| 04 | Set Gill Net | R | 638 | | 686 | | 707 | | 693 | | 672 | | 732 | |
| | | N | 43 | (681) | 42 | (728) | 65 | (772) | 38 | (731) | 35 | (707) | 43 | (775) |
| 05 | Troll | R | 10 | | 21 | | 23 | | 40 | | 17 | | 30 | |
| | | N | 1 | (11) | 2 | (23) | 2 | (25) | 1 | (41) | 1 | (18) | 1 | (31) |
| 06 | Longline | R | 66 | | 129 | | 231 | | 243 | | 228 | | 412 | |
| | | | 2 | (68) | 5 | (134) | 16 | (247) | 15 | (258) | 10 | (238) | 12 | (424) |
| 07 | Otter Trawl | R | 3 | ( 3) | 3 | (3) | 4 | (4) | 7 | (7) | 8 | (8) | 6 | (6) |
| 18 | Clam Diggers | R | 13 | | 20 | | 19 | | 34 | | 60 | | 100 | |
| | | N | | (13) | 1 | (21) | | (19) | | (34) | 16 | (76) | 14 | (114) |
| 09 | Shellfish Pots | R | 43 | | 67 | | 84 | | 121 | | 98 | | 178 | |
| | | N | 7 | (50) | 5 | (72) | 2 | (86) | 3 | (124) | 4 | (102) | 8 | (186) |
| 11 | Herring Seine | R | 1 | (1) | 2 | (2) | 3 | ( 3) | | (3) | | (4) | 1 | (1) |
| 17 | Beam Trawls | R | | | | | 1 | ( 1) | | | 4 | (4) | 3 | (3) |
| 19 | Scallop Dredge | R | | | 2 | | 1 | | 5 | | 1 | | 4 | |
| | | N | | | 6 | (8) | | ( 1) | | (5) | 1 | (2) | | (4) |
| | Vessel, Dory | R | 954 | | 986 | | 1,038 | | 1,122 | | 1,089 | | 1,188 | |
| | | N | 230 | (1,184) | 236 | (1,222) | 264 | (1,302) | 223 | (1,345) | 183 | (1,272) | 181 | (1,369) |
| | Commercial | R | 1,675 | | 1,750 | | 2,164 | | 2,090 | | 2,111 | | 2,379 | |
| | | N | 615 | (2,290) | 597 | (2,347) | 667 | (2,831) | 484 | (2,574) | 483 | (2,594) | 481 | (2,860) |

1/ ( ) Parentheses indicates total of resident and nonresident licenses for each type of license.

Appendix

Table 2. Cook Inlet salmon gear registered vs salmon gear fished.[1/]

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 |
|---|---|---|---|---|---|---|---|---|
| Drift Nets Registered | 504 | 536 | 611 | 687 | 757 | 710 | 571 | 608 |
| Drift Nets Fished | 489 | 521 | 599 | 608 | 625 | 463 | 457 | 460 |
| Difference | 15 | 15 | 12 | 79 | 132 | 247 | 114 | 148 |
| Percent | 3.0 | 2.8 | 2.0 | 11.5 | 17.4 | 34.8 | 19.9 | 24.3 |
| Set Nets Registered | 628 | 604 | 681 | 728 | 772 | 731 | 707 | 803 |
| Set Nets Fished | 616 | 491 | 632 | 462 | 522 | 436 | 495 | 485 |
| Difference | 12 | 113 | 49 | 266 | 250 | 295 | 212 | 318 |
| Percent | 1.9 | 18.7 | 7.2 | 36.5 | 32.4 | 40.4 | 29.9 | 39.6 |
| Hand Purse Seines Registered | 77 | 58 | 91 | 75 | 89 | 81 | 72 | 104 |
| Hand Purse Seines Fished | 75 | 54 | 88 | 58 | 80 | 49 | 51 | 48 |
| Difference | 2 | 4 | 3 | 17 | 9 | 32 | 21 | 56 |
| Percent | 2.6 | 6.9 | 3.3 | 22.7 | 10.1 | 39.5 | 29.1 | 46.1 |
| Troll Registered | 12 | 13 | 11 | 23 | 25 | 41 | 18 | 44 |
| Troll Fished | 5 | 3 | 0 | 0 | 8 | 4 | 3 | 4 |
| Difference | 7 | 10 | 11 | 23 | 17 | 37 | 15 | 40 |
| Percent | 58.3 | 76.9 | 100 | 100 | 68.0 | 90.2 | 83.3 | 90.9 |

[1/] Registered gear taken from Homer office statistics. Gear fished taken from IBM statistical runs.

Appendix

Table 3. Cook Inlet, per cent of salmon catch, by gear, 1960-1973.

| Year | Percent Seine | Percent Drift | Percent Set Net |
|---|---|---|---|
| 1960 | 17 | 26 | 57 |
| 1961 | 18 | 50 | 32 |
| 1962 | 30 | 25 | 45 |
| 1963 | 19 | 46 | 35 |
| 1964 | 19 | 35 | 46 |
| 1965 | 8 | 70 | 22 |
| 1966 | 11 | 35 | 54 |
| 1967 | 19 | 50 | 31 |
| 1968 | 12 | 47 | 41 |
| 1969 | 18 | 50 | 32 |
| 1970 | 24 | 46 | 30 |
| 1971 | 32 | 44 | 24 |
| 1972 | 5 | 50 | 45 |
| 1973 | 18 | 50 | 32 |
| Average | 18 | 44 | 38 |

Appendix

Table 4. Cook Inlet total salmon catch, by species, 1954-1973.

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954[1/] | 65,325 | 1,246,672 | 336,685 | 2,460,051 | 775,659 | 4,884,392 |
| 1955 | 46,499 | 1,064,128 | 180,452 | 1,286,008 | 317,053 | 2,894,140 |
| 1956 | 65,310 | 1,295,095 | 207,534 | 1,803,295 | 870,269 | 4,241,503 |
| 1957 | 42,767 | 670,629 | 127,199 | 306,841 | 1,207,920 | 2,355,356 |
| 1958 | 22,847 | 496,842 | 241,561 | 2,598,314 | 596,179 | 3,955,743 |
| 1959 | 32,783 | 634,313 | 112,664 | 137,255 | 411,157 | 1,328,172 |
| 1960[2/] | 27,539 | 948,040 | 314,153 | 2,023,252 | 766,079 | 4,089,063 |
| 1961 | 19,778 | 1,185,079 | 119,297 | 337,394 | 405,221 | 2,066,869 |
| 1962 | 20,270 | 1,172,859 | 358,051 | 4,960,030 | 1,149,841 | 7,661,051 |
| 1963 | 17,632 | 958,101 | 203,876 | 234,052 | 525,537 | 1,939,198 |
| 1964 | 4,622 | 990,709 | 462,114 | 4,287,378 | 1,402,419 | 7,147,242 |
| 1965 | 9,751 | 1,426,352 | 154,363 | 139,561 | 344,052 | 2,074,079 |
| 1966 | 8,586 | 1,867,372 | 295,042 | 2,585,616 | 661,883 | 5,418,499 |
| 1967 | 8,035 | 1,409,107 | 180,455 | 407,717 | 382,282 | 2,387,596 |
| 1968 | 4,600 | 1,200,188 | 473,645 | 2,862,939 | 1,183,037 | 5,724,359 |
| 1969 | 12,462 | 815,050 | 101,575 | 235,866 | 331,058 | 1,496,011 |
| 1970 | 8,054 | 750,111 | 276,770 | 1,352,389 | 999,005 | 3,386,329 |
| 1971 | 19,838 | 658,537 | 105,197 | 428,495 | 475,631 | 1,687,698 |
| 1972 | 16,174 | 937,721 | 83,167 | 657,243 | 705,691 | 2,399,996 |
| 1973 | 5,339 | 699,234 | 106,521 | 633,587 | 783,086 | 2,227,767 |
| Total | 458,211 | 20,426,139 | 4,440,421 | 29,737,283 | 14,293,059 | 69,365,023 |
| 20 year average | 22,910 | 1,021,306 | 222,021 | 1,486,864 | 714,652 | 3,467,753 |
| Percent | .67 | 29.45 | 6.40 | 42.87 | 20.61 | 100.00 |

[1/] 1954-1959 data - Fish and Wildlife Service Statistical Digest 50.

[2/] 1960-1973 data - Alaska Department of Fish and Game IBM Salmon Report.

Appendix

Table 5 . Salmon catch, by species, Northern District, 1954-1973.

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954 | 22,585 | 120,508 | 139,464 | 347,040 | 84,571 | 714,168 |
| 1955 | 20,522 | 52,927 | 46,365 | 3,226 | 40,321 | 163,361 |
| 1956 | 18,457 | 114,612 | 80,322 | 398,851 | 169,545 | 781,787 |
| 1957 | 21,422 | 90,431 | 44,416 | 1,678 | 101,454 | 259,401 |
| 1958 | 9,308 | 69,222 | 100,813 | 408,043 | 92,227 | 679,613 |
| 1959 | 13,222 | 134,930 | 41,230 | 2,348 | 50,699 | 242,429 |
| 1960 | 8,218 | 148,247 | 144,377 | 442,185 | 117,739 | 860,766 |
| 1961 | 7,755 | 77,374 | 40,975 | 10,765 | 61,103 | 197,972 |
| 1962 | 9,778 | 130,934 | 172,562 | 279,599 | 143,757 | 736,630 |
| 1963 | 7,345 | 109,463 | 63,540 | 8,940 | 43,694 | 232,982 |
| 1964 | 168 | 160,264 | 167,928 | 586,386 | 126,958 | 1,041,704 |
| 1965 | 300 | 31,412 | 21,752 | 4,848 | 16,775 | 75,087 |
| 1966 | 404 | 131,080 | 80,550 | 371,960 | 35,598 | 619,592 |
| 1967 | 184 | 118,065 | 43,854 | 8,460 | 38,384 | 208,947 |
| 1968 | 471 | 140,575 | 156,648 | 534,839 | 58,454 | 890,987 |
| 1969 | 2,904 | 38,065 | 20,425 | 7,620 | 11,836 | 80,850 |
| 1970 | 1,458 | 66,460 | 82,735 | 174,207 | 22,422 | 347,282 |
| 1971 | 9,598 | 40,533 | 22,094 | 8,423 | 16,603 | 97,251 |
| 1972 | 4,912 | 85,737 | 19,346 | 90,830 | 19,780 | 220,605 |
| 1973 | 170 | 45,614 | 23,951 | 137,250 | 30,851 | 237,836 |
| Total | 159,181 | 1,906,453 | 1,513,347 | 3,827,498 | 1,282,771 | 8,689,250 |
| 20 year average | 7,959 | 95,322 | 75,667 | 191,374 | 64,138 | 434,460 |
| Percent | 1.83 | 21.94 | 17.42 | 44.05 | 14.76 | 100.00 |

Appendix
Table 6. Salmon catch, by species, Central District, 1954-1973.

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954 | 41,195 | 1,086,538 | 182,061 | 1,842,267 | 425,497 | 3,577,558 |
| 1955 | 25,404 | 974,601 | 124,412 | 98,454 | 208,022 | 1,430,893 |
| 1956 | 46,518 | 1,144,177 | 117,867 | 1,196,524 | 612,506 | 3,117,592 |
| 1957 | 20,831 | 553,281 | 81,018 | 19,550 | 900,016 | 1,574,696 |
| 1958 | 13,419 | 408,170 | 138,952 | 1,240,505 | 379,470 | 2,180,516 |
| 1959 | 19,426 | 471,966 | 61,619 | 10,506 | 239,134 | 802,651 |
| 1960 | 19,294 | 785,292 | 167,125 | 981,464 | 542,258 | 2,495,434 |
| 1961 | 11,982 | 1,084,929 | 76,803 | 23,252 | 288,525 | 1,485,491 |
| 1962 | 10,432 | 1,016,639 | 177,762 | 2,432,090 | 864,177 | 4,501,100 |
| 1963 | 10,191 | 833,517 | 133,600 | 21,496 | 343,333 | 1,342,137 |
| 1964 | 4,363 | 809,791 | 285,713 | 2,645,575 | 952,128 | 4,697,570 |
| 1965 | 9,441 | 1,380,775 | 131,717 | 19,049 | 299,538 | 1,840,520 |
| 1966 | 8,121 | 1,721,369 | 209,353 | 1,634,416 | 497,223 | 4,070,482 |
| 1967 | 7,675 | 1,261,997 | 133,875 | 23,769 | 258,453 | 1,685,769 |
| 1968 | 4,065 | 964,321 | 312,112 | 1,742,154 | 1,049,449 | 4,072,101 |
| 1969 | 9,494 | 654,189 | 80,527 | 25,802 | 258,019 | 1,028,031 |
| 1970 | 6,489 | 662,574 | 189,175 | 603,319 | 753,173 | 2,214,730 |
| 1971 | 10,167 | 595,770 | 78,542 | 27,201 | 310,426 | 1,022,106 |
| 1972 | 11,174 | 794,087 | 61,587 | 537,750 | 610,368 | 2,014,966 |
| 1973 | 5,024 | 624,411 | 80,469 | 188,934 | 636,722 | 1,535,560 |
| Total | 294,705 | 17,828,394 | 2,824,289 | 15,314,078 | 10,428,437 | 46,689,903 |
| 20 year average | 14,735 | 891,419 | 141,214 | 765,703 | 521,421 | 2,334,492 |
| Percent | 0.6 | 38.2 | 6.1 | 32.8 | 22.3 | 100 |

Appendix Table 7 .
Cook Inlet red salmon catch in thousands, by day, north of Anchor Point, 1966-1973.[1/][2/]

| Date | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 |
|---|---|---|---|---|---|---|---|---|
| June 17 | | | | | 1 | | | |
| 18 | | | | 7 | | 4 | | |
| 19 | | | | | 2 | | 5 [4/] | |
| 20 | | | 5 | 6 | | | | |
| 21 | | | | | | 1 | | |
| 22 | | 8 | | | 2 | | | |
| 23 | 9 | | | 7 | | | 4 | |
| 24 | | | 8 | | 2 | | | |
| 25 | | | | 7 | | 2 | | 2 |
| 26 | | 6 | | | 5 | | 4 | |
| 27 | 17 | | 12 | 7 | | | | |
| 28 | | | | | | 3 | | |
| 29 | | 16 | | | 7 | | | 5 |
| 30 | 38 | | | 19 | | | 9 | |
| July 1 | | | 31 | | 18 | | | |
| 2 | | | | 26 | | 8 | | 13 |
| 3 | | 32 | | | 28 | | 16 | |
| 4 | 49 | | 64 | 31 | | | | |
| 5 | | | | | | 23 | 9 [5/] | |
| 6 | | 100 | | | 52 | | | 44 |
| 7 | 74 | | | 50 | | | 47 | |
| 8 | | | 115 | | 7 [6/] | | | |
| 9 | | | | 83 | | 53 | | 77 |
| 10 | | 118 | | | 110 | | 75 | |
| 11 | 164 | | 194 | 107 | | | | |
| 12 | | | | | | 25 [7/] | | |
| 13 | | 200 | | | 47 | | | 161 |
| 14 | 487 | | | 104 | | | 112 | |
| 15 | | | 218 | | 64 | | | |
| 16 | | | | | | | | 116 [3/] |
| 17 | | 296 | | | 90 | | 177 | |
| 18 | 406 | | 194 | 104 | | | | 84 [3/] |
| 19 | | | | | | | | |
| 20 | 218 | 363 | | | 163 | | | 51 |
| 21 | | | 24 | 65 | | 369 | 219 | |
| 22 | 191 | | 100 | | 83 | | | |
| 23 | | | | | | | | 54 |
| 24 | | 187 | 72 | | 5 [6/] | | 93 | |
| 25 | 65 | | | 56 | | | | 24 |
| 26 | 34 | | 45 | | | | 43 | |
| 27 | 34 | 7 | | | 19 | | | 12 |
| 28 | 18 | | | | | | 46 | |
| 29 | 13 | | | | 11 | | | |
| 30 | 8 | | | | | | | 12 |
| 31 | 6 | 23 | 9 | | 4 | 100 | 8 | |

Appendix Table 7 continued:

Cook Inlet red salmon catch in thousands,
by day, north of Anchor Point, 1966-1973.

| Date | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 |
|---|---|---|---|---|---|---|---|---|
| Aug. 1 | 3 | | | 6 | | | | 7 |
| 2 | 3 | 15 | 6 | | | | 4 | |
| 3 | 2 | | | | 3 | 23 | | 3 |
| 4 | 2 | 4 | | 3 | | | 2 | |
| 5 | 1 | | 6 | | 1 | | | |
| 6 | 1 | | | | | 2 | | 2 |
| 7 | 1 | 3 | | | 2 | | 1 | |
| 8 | 1 | | | | | | | 1 |
| 9 | 1 | | | 1 | | .1 | 1 | |
| 10 | 1 | | | | 1 | | | .5 |

1/ Gill net districts only.
2/ Fishing Time: 1966-1968, 24-hour periods; 1969, 12-hour periods; 1970, 12-hour periods prior to July 15; 16-hour periods from July 15 on; 1971-1973, 12-hour periods.
3/ 6-hour periods.
4/ Northern closed.
5/ Northern and part of Central closed
6/ Central District closed
7/ Partly closed

Appendix Table 8 .
Cook Inlet aircraft charter - by district, 1966 - 1973.

| Year | Southern & Outer | | Kamishak | | Central | | Northern | | Cook Inlet Total |
|---|---|---|---|---|---|---|---|---|---|
| | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent | Amount |
| 1966 | $2,011. | 18.4 | $1,019. | 9.3 | $2,630. | 24.3 | $5,286. | 48.3 | $10,946. |
| 1967 | 1,178. | 14.2 | 537. | 6.4 | 1,988. | 23.8 | 4,608. | 55.4 | 8,311. |
| 1968 | 1,638. | 15.3 | 296. | 2.8 | 2,999. | 27.1 | 5,804. | 54.6 | 10,737. |
| 1969 | 2,145. | 18.9 | 945. | 8.3 | 1,775. | 15.7 | 6,494. | 57.2 | 11,359. |
| 1970 | 3,424. | 36.3 | 1,556. | 16.5 | 2,286. | 24.2 | 2,173. | 23.0 | 9,439. |
| 1971 | 5,655. | 53.3 | 1,215. | 11.5 | 2,488. | 23.4 | 1,254. | 11.8 | 10,612. |
| 1972 | 4,273. | 36.0 | 1,911. | 16.1 | 3,742. | 31.6 | 1,927. | 16.3 | 11,853. |
| 1973 | 4,122. | 44.6 | 2,222. | 24.0 | 2,187. | 23.6 | 723. | 7.8 | 9,254. |
| TOTAL | 24,446. | 29.6 | 9,701. | 11.7 | 20,095. | 24.4 | 28,269. | 34.3 | 82,511. |

Appendix

Table 9. Fish Creek Salmon escapement counts 1936-1973.

| Year | Method of Enumeration | Dates of Operation | Count through July 31 | | | Count for entire season | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sockeye | Coho | Pink | Sockeye | Coho | Pink |
| 1936 | Weir | 7/15-8/11 | 183,722 | | | 203,039 | | |
| 1937 | Weir | 7/21-8/9 | 25,031 | | | 50,617 | 489 | |
| 1938 | Weir | 7/10-8/8 | 115,531 | 14,549 | | 182,463 | 19,417 | |
| 1939 | Weir | 7/11-8/12 | 57,220 | | 332 | 116,588 | 2,764 | 332 |
| 1940 | Weir | 7/4-8/12 | 293,880 | | | 306,982 | 16,546 | |
| 1941 | Weir | 7/4-8/9 | 39,032 | 6,886 | | 55,077 | 9,720 | |
| 1942-1945 | No counts made [1/] | | | | | | | |
| 1946 | Est. ground count | | | | | 57,000 | | |
| 1947 | Est. ground count | | | | | 150,000 | | |
| 1948 | Est. ground count | | | | | 150,000 | | |
| 1949 | Weir | 7/9-8/17 | 61,219 | 105 | | 68,240 | 1,642 | |
| 1950 | Weir | 7/9-8/17 | 9,873 | 189 | | 29,659 | 1,042 | 699 |
| 1951 | Weir | 7/4-8/16 | 27,278 | 861 | | 34,704 | 1,953 | |
| 1952 | Weir | 7/12-8/9 | 91,125 | 265 | | 92,724 | 277 | |
| 1953 | Weir | 7/11-8/5 | 44,385 | 50 | | 54,343 | 71 | |
| 1954 | Weir | 7/13-8/9 | 17,483 | 252 | | 20,904 | 1,057 | |
| 1955 | Weir | 7/8-8/8 | 30,112 | 3,984 | 8 | 32,724 | 4,417 | 8 |
| 1956 | Weir | 7/8-7/31 | 32,663 | 22 | 32 | | | |
| 1957 | Weir | 7/12-8/25 | 12,443 | | | 15,630 | 346 | |

Appendix
Table 9 continued:

Fish Creek salmon escapement counts 1936 - 1973.

| Year | Method of Enumeration | Dates of Operation | Count through July 31 | | | Count for entire season | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sockeye | Coho | Pink | Sockeye | Coho | Pink |
| 1958 | Weir | 7/4 - 7/28 | 17,573 | 592 | | | | |
| 1959 | Counting screen | 7/10 - 8/2 | 77,416 | | | | | |
| 1960 | Counting screen | 7/4 - 7/31 | 80,000 | | | | | |
| 1961 | Counting screen | 7/4 - 7/31 | 40,000 | | | | | |
| 1962 | Counting screen | 7/4 - 7/31 | 60,000 | | | | | |
| 1963 | Counting screen | 7/4 - 8/1 | 119,024 | 1,814 | | | | |
| 1964 | Counting screen | 7/4 - 7/31 | 65,000 | | | | | |
| 1965 | Counting screen | 7/4 - 8/8 | 11,584 | 136 | 112 | 16,544 | 792 | 584 |
| 1966 | Counting screen | 7/5 - 7/31 | 41,312 | | 10,760 | | | |
| 1967 | Counting screen | 7/3 - 7/31 | 22,624 | 984 | 168 | | | |
| 1968 | Counting screen | 7/1 - 7/31 | 19,616 | 2,088 | 48,128 | | | |
| 1969 | Weir | 7/4 - 9/2 | 6,243 | 11 | | 12,456 | 4,253 | |
| 1970 | Weir | 7/4 - 8/8 | 19,881 | 574 | 2,704 | 25,000[2/] | 1,048 | 3,940 |
| 1971 | Weir | 7/3 - 8/7 | 18,961 | 150 | | 32,000[3/] | 583 | |
| 1972 | Weir | 7/2 - 9/8 | 3,371 | 64 | 13 | 6,981 | 709 | 57 |
| 1973 | Weir | 7/1 - 9/6 | 1,059 | 71 | 0 | 2,705 | 210 | 6 |

1/ Rating of poor, fair, or good given only.
2/ Includes estimated 3,500 sockeye salmon still behind weir when it washed out 8/8/70.
3/ Includes estimated 500 sockeye salmon still behind weir when it was removed 8/7/71.

Appendix
Table 10. Russian River sockeye salmon escapements, 1960 - 1973.

| Year | Early run escapement (thru 7/15) | Late run (Jul. 16 on) | Total escapement |
|---|---|---|---|
| 1960[1/] | 9,115 | 34,839 | 43,954 |
| 1961 | 7,791 | 18,669 | 26,460 |
| 1962 | | 55,653 | 55,653 |
| 1963 | 15,311 | 51,100 | 66,411 |
| 1964 | 12,782 | 46,921 | 59,703 |
| 1965 | 21,776 | 21,459 | 43,235 |
| 1966 | 16,915 | 34,521 | 51,436 |
| 1967 | 13,706 | 49,458 | 63,164 |
| 1968[2/] | 9,204 | 48,862 | 58,066 |
| 1969[3/] | 5,000 | 30,020 | 35,020 |
| 1970 | 5,451 | 28,200 | 33,651 |
| 1971 | 2,654 | 54,429 | 57,083 |
| 1972 | 9,273 | 78,842 | 88,115 |
| 1973 | 13,120 | 24,974 | 38,094 |

1/ 1960-67 escapement counts are based on tower counts for 15 minutes per hour for 12 hours then skipping 16 hours and counting again 15 minutes per hour for 12 hours and then expanding by 9.33.

2/ 1968 early escapement based on 15 minute hour counts for 24 hours and then expanding by 4. Late escapement based on procedures followed in 1960-67.

3/ 1969-73 weir counts except for early run in 1969 which was spawning ground count.

Appendix

Table 11. Sonar estimates, peak survey count totals, and available weir counts of sockeye salmon in selected Cook Inlet spawning streams.

| | Kenai System | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Kenai | | Russian | Hidden Cr | Kasilof | | Fish Cr | Talachulitna |
| Year | Sonar | Index[3] | Late Run | Weir | Sonar | Index[3] | Weir | Tower |
| 1960 | | | 34,839[1] | | | | 80,000 | |
| 1961 | | | 18,669[1] | | | | 40,000 | |
| 1962 | | | 55,653[1] | | | | 60,000 | |
| 1963 | | | 51,100[1] | | | | 119,024 | |
| 1964 | | | 46,921[1] | | | | 65,000 | |
| 1965 | | | 21,459[1] | | | | 16,544 | |
| 1966 | | 16,055 | 34,521[1] | | | 32,886 | 41,312 | |
| 1967 | | 9,608 | 49,458[1] | | | 21,442 | 22,624 | |
| 1968 | 113,409 | 7,803 | 48,862[1] | | 92,708 | 41,406 | 19,616 | |
| 1969 | 53,625 | 3,001 | 30,020[2] | | 45,588 | 18,400 | 12,456 | |
| 1970 | 66,418 | 1,979 | 28,200[2] | | 37,240 | 16,719 | 25,000 | |
| 1971 | 51,237[4] | 15,906 | 54,429[2] | 1,958 | 30,161[4] | 54,645 | 32,000 | |
| 1972 | 269,679 | 13,066 | 78,842[2] | 4,956 | 111,944 | 77,066 | 6,981 | 15,730 |
| 1973 | 368,369 | 15,745 | 24,974[2] | 690 | 40,189 | 25,083 | 2,705 | 19,355 |

[1] Tower counts (late run, only).

[2] Weir counts (late run, only).

[3] Index counts are derived from clearwater spawning tributaries. The peak counts (dead and live) from streams are totaled.

[4] Sonar counters malfunctioned during 1971.

Appendix

Table 12. Peak sockeye salmon counts on Kasilof River drainage for years 1972 and 1973.

| Stream | 1973 Date | 1973 Live | 1973 Dead | 1973 Total | 1972 Date | 1972 Live | 1972 Dead | 1972 Total |
|---|---|---|---|---|---|---|---|---|
| Glacier Flat Creek | 8/23 | 8,600 | 2,023 | 10,623 | 8/27 | 28,525 | 10,523 | 39,048 |
| Moose Creek | 8/11 | 2,875 | 410 | 3,285 | 8/14 | 13,821 | 667 | 14,488 |
| Nikolai Creek | 8/10 | 288 | 2 | 290 | 8/7 | 13,513 | 155 | 13,668 |
| Seepage Creek | 8/12 | 1,056 | 8 | 1,064 | 8/21 | 2,888 | 359 | 3,247 |
| Clear Creek | 8/15 | 144 | 22 | 166 | 9/1 | 178 est. | 20 est. | 198 |
| Crystal Creek | 8/22 | 193 | 5 | 198 | 8/26 | 513 | 303 | 816 |
| Pipe Creek | 8/20 | 20 | | 20 | 8/23 | 129 | 61 | 190 |
| TOTALS | | 18,613 | 6,496 | 25,109 | | 84,713 | 14,678 | 99,391 |

Appendix Table 13.
Aerial stream surveys - Chinitna - South Central District
1965 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/30/65 | --- | --- | 33 | Chums | Clear | Fitz Creek |
| 7/30/65 | --- | --- | 0 | --- | --- | Marsh Creek |
| 8/7/65 | --- | --- | 270 | Chums | Clear | Fitz Creek |
| 8/7/65 | --- | --- | 225 | Chums | Clear | Rt. hand fork (Marsh Creek) |
| 8/7/65 | --- | --- | 585 | Chums | Clear | Left hand fork (Marsh Creek) |
| 8/ /66 | 20,000 | Chums | --- | --- | --- | At head end of bay. |
| 8/2/68 | --- | --- | 11,000 | Chums | --- | Most in intertidal stream. |
| 7/22/69 | 0 | --- | 0 | --- | --- | Visibility good. |
| 8/11/69 | --- | --- | 2,500 | Chums | --- | Head end (Marsh Creek) |
| 8/3/70 | 0 | --- | 0 | --- | --- | ---- |
| 8/12/70 | 800 | Chums | Finners | --- | --- | Finners at headstream, too turbid to estimate |
| 7/15/71 | 0 | --- | 0 | --- | Clear/calm | 2 black bears |
| 8/9/71 | --- | --- | 250 | Chums | --- | --- |
| 8/16/71 | --- | --- | 5,000 | Chums | Overcast/calm | --- |
| 9/3/71 | --- | --- | 17,000 | Chums | Overcast/calm | --- |
| 8/7/72 | --- | --- | 1,000 | Chums | --- | --- |
| 8/17/72 | ---- | --- | 550 | Chums | Clear/wind | Another 250 chums in rt. stream |
| | | | 1,700 | Chums | --- | Middle section. |
| | | | 100 | Chums | --- | Right side bay, s. of glacial r |
| | | | 50 | Reds | --- | --- |
| 8/24/72 | | | 5,900 | Chums | --- | --- |
| 8/16/73 | --- | --- | 8,450 | Chums | Clear/calm | Clear creek/1 mile stream |
| | --- | --- | 410 | Chums | Clear/calm | Chinitna |

Appendix Table 14

Kenai River Sonar Counts

1968--1973 1/

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| June 15 | 503 | 503 | 999 | 999 | 552 | 552 | 466 | 466 | | |
| 16 | 342 | 845 | 2,751 | 3,250 | 758 | 1,310 | 804 | 1,270 | | |
| 17 | 342 | 1,187 | 912 | 4,162 | 1,101 | 2,411 | 521 | 1,791 | 2,890 | 2,890 |
| 18 | 181 | 1,368 | 1,121 | 5,283 | 1,185 | 3,596 | 335 | 2,126 | 1,489 | 4,379 |
| 19 | 271 | 1,639 | 1,152 | 6,435 | 421 | 4,017 | 512 | 2,638 | 784 | 5,163 |
| 20 | 199 | 1,838 | 4,129 | 10,564 | 392 | 4,409 | 289 | 2,927 | 912 | 6,075 |
| 21 | 126 | 1,964 | 6,580 | 17,144 | 312 | 4,721 | 397 | 3,324 | 791 | 6,866 |
| 22 | 147 | 2,111 | 3,987 | 21,131 | 519 | 5,240 | 734 | 4,058 | 1,008 | 7,874 |
| 23 | 589 | 2,700 | 2,021 | 23,152 | 352 | 5,592 | 816 | 4,874 | 822 | 8,696 |
| 24 | 132 | 2,832 | 1,041 | 24,193 | 331 | 5,923 | 980 | 5,854 | 541 | 9,237 |
| 25 | 1,172 | 4,004 | 2,269 | 26,462 | 375 | 6,298 | 367 | 6,221 | 475 | 9,712 |
| 26 | 134 | 4,138 | 1,251 | 27,713 | 463 | 6,761 | 414 | 6,635 | 583 | 10,295 |
| 27 | 193 | 4,331 | 2,238 | 29,951 | 664 | 7,425 | 243 | 6,878 | 144 | 10,439 |
| 28 | 224 | 4,555 | 2,066 | 32,017 | 467 | 7,892 | 211 | 7,089 | 154 | 10,593 |
| 29 | 131 | 4,686 | 1,766 | 33,783 | 517 | 8,409 | 593 | 7,682 | 77 | 10,670 |
| 30 | 187 | 4,873 | 1,687 | 35,470 | 360 | 8,769 | 751 | 8,433 | 61 | 10,731 |
| July 1 | 488 | 5,361 | 1,901 | 37,371 | 164 | 8,933 | 410 | 8,843 | 51 | 10,782 |
| 2 | 238 | 5,599 | 1,818 | 39,189 | 251 | 9,184 | 925 | 9,768 | 93 | 10,875 |
| 3 | 379 | 5,978 | 1,934 | 41,123 | 304 | 9,488 | 674 | 10,442 | 145 | 11,020 |
| 4 | 882 | 6,860 | 1,101 | 42,224 | 290 | 9,778 | 655 | 11,097 | 265 | 11,285 |
| 5 | 1,067 | 7,927 | 904 | 43,128 | 349 | 10,127 | 320 | 11,417 | 592 | 11,877 |
| 6 | 663 | 8,590 | 1,021 | 44,149 | 315 | 10,442 | 360 | 11,777 | 2,992 | 14,869 |
| 7 | 1,338 | 9,928 | 766 | 44,915 | 470 | 10,912 | 544 | 12,321 | 1,492 | 16,361 |
| 8 | 1,772 | 11,700 | 894 | 45,809 | 774 | 11,686 | 498 | 12,819 | 1,056 | 17,417 |
| 9 | 304 | 12,004 | 2,384 | 48,193 | 790 | 12,476 | 1,623 | 14,442 | 2,935 | 20,352 |
| 10 | 177 | 12,181 | 825 | 49,018 | 471 | 12,947 | 993 | 15,435 | 6,991 | 27,343 |
| 11 | 399 | 12,580 | 843 | 49,861 | 946 | 13,893 | 1,634 | 17,069 | 4,163 | 31,506 |
| 12 | 342 | 12,922 | 967 | 50,828 | 1,194 | 15,087 | 675 | 17,744 | 8,124 | 39,630 |
| 13 | 1,248 | 14,170 | 750 | 51,578 | 3,608 | 18,695 | 1,795 | 19,539 | 18,293 | 57,923 |

1/ Sonar counts malfunctioned during 1971.

Appendix Table 14 continued:

Kenai River Sonar Counts cont.

1968--1973

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| July 14 | 1,585 | 15,755 | 626 | 52,204 | 3,319 | 22,014 | 3,459 | 22,998 | 12,057 | 69,980 |
| 15 | 6,558 | 22,313 | 832 | 53,036 | 2,342 | 24,356 | 1,071 | 24,069 | 10,175 | 80,155 |
| 16 | 6,399 | 28,712 | 731 | 53,767 | 885 | 25,241 | 3,746 | 27,815 | 10,702 | 90,857 |
| 17 | 5,331 | 34,043 | 667 | 54,434 | 549 | 25,790 | 634 | 28,449 | 8,992 | 99,849 |
| 18 | 8,524 | 42,567 | 527 | 54,961 | 1,357 | 27,147 | 388 | 28,837 | 9,518 | 109,367 |
| 19 | 5,428 | 47,995 | 1,588 | 56,549 | 998 | 28,145 | 584 | 29,421 | 12,000 | 121,367 |
| 20 | 8,543 | 56,538 | 365 | 56,914 | 1,150 | 29,295 | 7,834 | 37,255 | 22,490 | 143,857 |
| 21 | 2,721 | 59,259 | 443 | 57,357 | 1,093 | 30,388 | 20,957 | 58,212 | 25,785 | 169,642 |
| 22 | 6,114 | 65,373 | 397 | 57,754 | 958 | 31,346 | 26,196 | 84,408 | 26,172 | 195,814 |
| 23 | 7,265 | 72,638 | 628 | 58,382 | 2,777 | 34,123 | 27,742 | 112,150 | 39,066 | 234,880 |
| 24 | 5,560 | 78,198 | 756 | 59,138 | 2,695 | 36,818 | 35,382 | 147,532 | 35,589 | 270,469 |
| 25 | 4,768 | 82,966 | 1,524 | 60,662 | 3,513 | 40,331 | 26,734 | 174,266 | 25,491 | 295,960 |
| 26 | 2,992 | 85,958 | 661 | 61,323 | 5,304 | 45,635 | 26,585 | 200,851 | 21,517 | 317,477 |
| 27 | 4,518 | 90,476 | 567 | 61,890 | 3,973 | 49,608 | 24,478 | 225,329 | 14,618 | 332,095 |
| 28 | 2,115 | 92,591 | 626 | 62,516 | 3,723 | 53,331 | 21,063 | 246,932 | 13,127 | 345,222 |
| 29 | 4,727 | 97,318 | 666 | 63,182 | 3,193 | 56,524 | 18,273 | 264,665 | 8,313 | 353,535 |
| 30 | 1,868 | 99,186 | 585 | 63,767 | 2,956 | 59,480 | 8,746 | 273,411 | 8,799 | 362,334 |
| 31 | 3,064 | 102,250 | 556 | 64,323 | 3,412 | 62,892 | 3,925 | 277,336 | 3,570 | 365,904 |
| Aug. 1 | 1,971 | 104,221 | 528 | 64,851 | 3,132 | 66,024 | 6,357 | 283,693 | 3,002 | 368,906 |
| 2 | 1,596 | 105,817 | 665 | 65,516 | 3,449 | 69,473 | 6,190 | 289,883 | 2,573 | 371,479 |
| 3 | 3,739 | 109,556 | 858 | 66,374 | 3,091 | 72,564 | 4,207 | 294,090 | 3,173 | 374,650 |
| 4 | 4,934 | 114,490 | 884 | 67,258 | 3,511 | 76,075 | 17,472 | 311,562 | 2,262 | 376,912 |
| 5 | 5,169 | 119,659 | 716 | 67,974 | 4,547 | 80,662 | 12,743 | 324,305 | 1,275 | 378,187 |
| 6 | 7,765 | 127,424 | 442 | 68,416 | 2,748 | 83,370 | 8,186 | 332,491 | 845 | 379,032 |
| 7 | 133 | 127,557 | 269 | 68,685 | 1,393 | 84,763 | 5,920 | 338,411 | 1,316 | 380,348 |
| 8 | | | 157 | 68,842 | 949 | 85,712 | 5,998 | 344,409 | 518 | 380,866 |

1/ Sonar counters malfunctioned during 1971.

Appendix Table 15

Kenai River Sockeye Sonar Counts

1968--1973 1/

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| June 15 | 423 | 423 | 739 | 739 | 465 | 465 | 452 | 452 | | |
| 16 | 288 | 711 | 1,666 | 2,405 | 638 | 1,103 | 779 | 1,231 | | |
| 17 | 288 | 999 | 675 | 3,080 | 928 | 2,031 | 505 | 1,736 | 2,812 | 2,812 |
| 18 | 152 | 1,151 | 830 | 3,910 | 999 | 3,030 | 325 | 2,061 | 1,449 | 4,261 |
| 19 | 228 | 1,379 | 852 | 4,762 | 355 | 3,385 | 496 | 2,557 | 763 | 5,024 |
| 20 | 167 | 1,546 | 3,055 | 7,817 | 331 | 3,716 | 280 | 2,837 | 887 | 5,911 |
| 21 | 106 | 1,652 | 5,026 | 12,843 | 263 | 3,979 | 385 | 3,222 | 770 | 6,681 |
| 22 | 124 | 1,776 | 2,950 | 15,793 | 438 | 4,417 | 711 | 3,933 | 981 | 7,662 |
| 23 | 495 | 2,271 | 1,496 | 17,289 | 297 | 4,714 | 791 | 4,724 | 800 | 8,462 |
| 24 | 111 | 2,382 | 770 | 18,059 | 279 | 4,993 | 950 | 5,674 | 526 | 8,988 |
| 25 | 986 | 3,368 | 1,679 | 19,738 | 316 | 5,309 | 356 | 6,030 | 462 | 9,450 |
| 26 | 113 | 3,481 | 926 | 20,664 | 390 | 5,699 | 401 | 6,431 | 567 | 10,017 |
| 27 | 162 | 3,643 | 1,656 | 22,320 | 560 | 6,259 | 236 | 6,667 | 140 | 10,157 |
| 28 | 188 | 3,831 | 1,529 | 23,849 | 394 | 6,653 | 205 | 6,872 | 150 | 10,307 |
| 29 | 110 | 3,941 | 1,307 | 25,156 | 436 | 7,089 | 575 | 7,447 | 75 | 10,382 |
| 30 | 157 | 4,098 | 1,248 | 26,404 | 304 | 7,393 | 728 | 8,175 | 59 | 10,441 |
| July 1 | 410 | 4,508 | 1,407 | 27,811 | 138 | 7,531 | 397 | 8,572 | 50 | 10,491 |
| 2 | 200 | 4,708 | 1,345 | 29,156 | 212 | 7,743 | 896 | 9,468 | 91 | 10,582 |
| 3 | 319 | 5,027 | 1,431 | 30,587 | 256 | 7,999 | 653 | 10,121 | 141 | 10,723 |
| 4 | 742 | 5,769 | 815 | 31,402 | 245 | 8,244 | 635 | 10,756 | 258 | 10,981 |
| 5 | 897 | 6,666 | 669 | 32,071 | 294 | 8,538 | 310 | 11,066 | 576 | 11,557 |
| 6 | 558 | 7,224 | 756 | 32,827 | 266 | 8,804 | 349 | 11,415 | 2,911 | 14,468 |
| 7 | 1,260 | 8,484 | 567 | 33,394 | 396 | 9,200 | 527 | 11,942 | 1,452 | 15,920 |
| 8 | 1,669 | 10,153 | 662 | 34,056 | 653 | 9,853 | 483 | 12,435 | 1,028 | 16,948 |
| 9 | 286 | 10,439 | 1,764 | 35,820 | 666 | 10,519 | 1,573 | 13,998 | 2,856 | 19,804 |
| 10 | 167 | 10,606 | 610 | 36,430 | 397 | 10,916 | 962 | 14,960 | 6,802 | 26,606 |
| 11 | 376 | 10,982 | 624 | 37,054 | 798 | 11,714 | 1,583 | 16,543 | 4,051 | 30,657 |
| 12 | 322 | 11,304 | 716 | 37,770 | 1,007 | 12,721 | 654 | 17,197 | 7,905 | 38,562 |
| 13 | 1,176 | 12,480 | 696 | 38,466 | 3,042 | 15,763 | 1,739 | 18,936 | 17,800 | 56,362 |

1/ Sonar counters malfunctioned during 1971.

Appendix Table 15 continued:

Kenai River Sockeye Sonar Counts cont.

1968--1973 1/

| | | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|---|
| July | 14 | 1,493 | 13,973 | 581 | 39,047 | 2,798 | 18,561 | 3,352 | 22,288 | 11,732 | 68,094 |
| | 15 | 6,178 | 20,151 | 772 | 39,819 | 1,974 | 20,535 | 1,038 | 23,326 | 9,809 | 77,903 |
| | 16 | 6,028 | 26,179 | 678 | 40,497 | 746 | 21,281 | 3,630 | 26,956 | 10,317 | 88,220 |
| | 17 | 5,022 | 31,201 | 619 | 41,116 | 438 | 21,719 | 614 | 27,570 | 8,668 | 96,888 |
| | 18 | 7,921 | 39,122 | 489 | 41,605 | 1,082 | 22,801 | 376 | 27,946 | 9,175 | 106,063 |
| | 19 | 5,044 | 44,166 | 1,474 | 43,079 | 795 | 23,596 | 566 | 28,512 | 11,568 | 117,631 |
| | 20 | 7,939 | 52,105 | 339 | 43,418 | 917 | 24,513 | 7,591 | 36,103 | 21,680 | 139,311 |
| | 21 | 2,528 | 54,633 | 411 | 43,829 | 871 | 25,384 | 20,307 | 56,410 | 24,831 | 164,142 |
| | 22 | 5,873 | 60,506 | 368 | 44,197 | 764 | 26,418 | 25,515 | 81,925 | 25,204 | 189,346 |
| | 23 | 6,980 | 67,486 | 583 | 44,780 | 2,213 | 28,361 | 27,021 | 108,946 | 37,946 | 226,967 |
| | 24 | 4,576 | 72,062 | 702 | 45,482 | 2,148 | 30,509 | 34,957 | 143,903 | 35,376 | 262,343 |
| | 25 | 3,924 | 75,986 | 1,414 | 46,896 | 2,800 | 33,309 | 25,905 | 169,808 | 25,338 | 287,681 |
| | 26 | 1,453 | 77,439 | 657 | 47,553 | 4,227 | 37,536 | 25,761 | 195,569 | 20,829 | 308,510 |
| | 27 | 2,193 | 79,632 | 564 | 48,117 | 3,167 | 40,703 | 23,719 | 219,288 | 14,150 | 322,660 |
| | 28 | 1,027 | 80,659 | 622 | 48,739 | 2,967 | 43,670 | 20,410 | 239,698 | 12,707 | 335,367 |
| | 29 | 2,295 | 82,954 | 662 | 49,401 | 2,545 | 46,215 | 17,707 | 257,405 | 7,698 | 343,065 |
| | 30 | 907 | 83,861 | 581 | 49,982 | 2,356 | 48,571 | 8,475 | 265,880 | 8,148 | 351,213 |
| | 31 | 778 | 84,639 | 399 | 50,381 | 2,719 | 51,290 | 3,803 | 269,683 | 3,306 | 354,519 |
| Aug. | 1 | 500 | 85,139 | 379 | 50,760 | 2,496 | 53,786 | | | 2,780 | 357,299 |
| | 2 | 405 | 85,544 | 477 | 51,237 | 2,749 | 56,535 | | | 2,383 | 359,682 |
| | 3 | 949 | 86,493 | 616 | 51,853 | 2,464 | 58,999 | | | 2,936 | 362,618 |
| | 4 | 411 | 86,904 | 635 | 52,488 | 2,798 | 61,797 | | | 2,095 | 364,713 |
| | 5 | 431 | 87,335 | 514 | 53,002 | 1,455 | 63,252 | | | 1,181 | 365,894 |
| | 6 | 1,397 | 88,732 | 317 | 53,319 | 879 | 64,135 | | | 783 | 366,677 |
| | 7 | 23 | 88,755 | 193 | 53,512 | 446 | 64,577 | | | 1,219 | 367,896 |
| | 8 | | | 113 | 53,625 | 304 | 64,881 | | | 480 | 368,376 |

1/ Sonar counters malfunctioned during 1971.

Appendix Table 16

Kasilof River Sonar Counts
1968--1973 1/

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| June 15 | 650 | 650 | 255 | 255 | 1,290 | 1,290 | 22 | 22 | | |
| 16 | 53 | 703 | 26 | 281 | 38 | 1,328 | 118 | 140 | | |
| 17 | 57 | 760 | 1,457 | 1,738 | 85 | 1,413 | 28 | 168 | | |
| 18 | 53 | 813 | 79 | 1,817 | 313 | 1,726 | 23 | 191 | | |
| 19 | 68 | 881 | 75 | 1,892 | 52 | 1,778 | 23 | 214 | 15 | 15 |
| 20 | 226 | 1,107 | 207 | 2,099 | 1,532 | 3,310 | 33 | 247 | 40 | 55 |
| 21 | 240 | 1,347 | 182 | 2,281 | 60 | 3,370 | 9 | 256 | 59 | 114 |
| 22 | 65 | 1,412 | 230 | 2,511 | 66 | 3,436 | 42 | 298 | 70 | 184 |
| 23 | 64 | 1,476 | 190 | 2,701 | 65 | 3,501 | 31 | 329 | 89 | 273 |
| 24 | 100 | 1,576 | 1,517 | 4,218 | 86 | 3,587 | 39 | 368 | 88 | 361 |
| 25 | 206 | 1,782 | 7,472 | 11,690 | 175 | 3,762 | 20 | 388 | 46 | 407 |
| 26 | 139 | 1,921 | 796 | 12,486 | 188 | 3,950 | 30 | 418 | 116 | 523 |
| 27 | 204 | 2,125 | 223 | 12,709 | 322 | 4,272 | 84 | 502 | 79 | 602 |
| 28 | 0 | 2,125 | 407 | 13,116 | 397 | 4,669 | 118 | 620 | 88 | 690 |
| 29 | 0 | 2,125 | 882 | 13,998 | 619 | 5,288 | 52 | 672 | 352 | 1,042 |
| 30 | 349 | 2,474 | 1,387 | 15,385 | 707 | 5,995 | 194 | 866 | 311 | 1,353 |
| July 1 | 666 | 3,140 | 1,912 | 17,297 | 635 | 6,630 | 299 | 1,165 | 503 | 1,856 |
| 2 | 2,161 | 5,301 | 8,210 | 25,507 | 515 | 7,145 | 318 | 1,483 | 392 | 2,248 |
| 3 | 2,298 | 7,599 | 631 | 26,138 | 992 | 8,137 | 242 | 1,725 | 1,092 | 3,340 |
| 4 | 3,039 | 10,638 | 652 | 26,790 | 462 | 8,599 | 185 | 1,910 | 916 | 4,256 |
| 5 | 4,425 | 15,063 | 812 | 27,602 | 645 | 9,244 | 343 | 2,253 | 980 | 5,286 |
| 6 | 6,571 | 21,634 | 1,196 | 28,798 | 1,084 | 10,328 | 236 | 2,489 | 877 | 6,113 |
| 7 | 2,765 | 24,399 | 765 | 29,563 | 1,792 | 12,120 | 442 | 2,931 | 830 | 6,943 |
| 8 | 4,624 | 29,023 | 945 | 30,508 | 2,741 | 14,861 | 528 | 3,459 | 854 | 7,797 |
| 9 | 0 | 29,023 | 1,247 | 31,755 | 1,741 | 16,602 | 1,084 | 4,543 | 950 | 8,747 |
| 10 | 5,937 | 34,960 | 1,247 | 33,002 | 1,538 | 18,140 | 1,279 | 5,822 | 1,522 | 10,269 |
| 11 | 8,952 | 43,912 | 858 | 33,860 | 1,248 | 19,388 | 1,077 | 6,899 | 3,548 | 13,817 |
| 12 | 5,967 | 49,879 | 652 | 34,512 | 1,321 | 20,709 | 1,376 | 8,275 | 1,699 | 15,516 |
| 13 | 2,926 | 52,805 | 654 | 35,166 | 1,670 | 22,379 | 1,473 | 9,748 | 2,120 | 17,636 |

1/ Sonar counters malfunctioned in 1971.

Appendix Table 16 continued:

Kasilof River Sonar Counts
1968--1973 1/

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| July 14 | 3,851 | 56,656 | 829 | 35,995 | 1,756 | 24,135 | 997 | 10,745 | 1,632 | 19,268 |
| 15 | 3,574 | 60,230 | 528 | 36,523 | 1,535 | 25,760 | 822 | 11,567 | 2,023 | 21,291 |
| 16 | 3,104 | 63,334 | 459 | 36,982 | 1,652 | 27,322 | 342 | 11,909 | 1,346 | 22,637 |
| 17 | 3,248 | 66,582 | 714 | 37,696 | 1,164 | 28,486 | 857 | 12,766 | 2,353 | 24,990 |
| 18 | 3,495 | 70,077 | 537 | 38,233 | 796 | 29,282 | 787 | 13,553 | 1,162 | 26,152 |
| 19 | 3,282 | 73,359 | 652 | 38,885 | 761 | 30,043 | 556 | 14,109 | 989 | 27,141 |
| 20 | 2,181 | 75,540 | 661 | 39,546 | 843 | 30,886 | 3,539 | 17,648 | 3,213 | 30,354 |
| 21 | 3,340 | 78,880 | 455 | 40,001 | 575 | 31,461 | 5,592 | 23,240 | 984 | 31,388 |
| 22 | 2,649 | 81,529 | 653 | 40,654 | 338 | 31,799 | 23,303 | 46,543 | 1,205 | 32,543 |
| 23 | 2,157 | 83,686 | 532 | 41,186 | 635 | 32,434 | 25,606 | 72,149 | 2,099 | 34,642 |
| 24 | 2,506 | 86,192 | 733 | 41,919 | 862 | 33,926 | 28,372 | 100,521 | 1,604 | 36,246 |
| 25 | 1,932 | 88,124 | 1,539 | 43,458 | 1,350 | 34,646 | 1,816 | 102,337 | 1,254 | 37,500 |
| 26 | 2,086 | 90,210 | 1,088 | 44,546 | 931 | 35,577 | 1,932 | 104,269 | 852 | 38,352 |
| 27 | 662 | 90,872 | 377 | 44,923 | 810 | 36,387 | 1,867 | 106,136 | 906 | 39,258 |
| 28 | 741 | 91,613 | 290 | 45,213 | 472 | 36,859 | 1,666 | 107,802 | 487 | 39,745 |
| 29 | 635 | 92,248 | 336 | 45,549 | 915 | 37,774 | 1,302 | 109,104 | 386 | 40,131 |
| 30 | 460 | 92,708 | 303 | 45,852 | 469 | 38,243 | 1,175 | 110,279 | 291 | 40,422 |
| 31 | | | 291 | 46,143 | 374 | 38,617 | 895 | 111,174 | 446 | 40,868 |
| Aug. 1 | | | 245 | 46,388 | 262 | 38,879 | 1,315 | 112,489 | 199 | 41,067 |
| 2 | | | 284 | 46,672 | 446 | 39,325 | 1,013 | 113,502 | 293 | 41,360 |
| 3 | | | 222 | 46,894 | 516 | 39,841 | | | 331 | 41,691 |
| 4 | | | 482 | 47,376 | 492 | 40,333 | | | 266 | 41,957 |
| 5 | | | 364 | 47,740 | 115 | 40,448 | | | | |
| 6 | | | 241 | 47,981 | | | | | | |
| 7 | | | 363 | 48,344 | | | | | | |
| 8 | | | 115 | 48,459 | | | | | | |

1/ Sonar counters malfunctioned in 1971.

Appendix Table 17

Kasilof River Sockeye Sonar Counts
1968--1973 1/

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| June 15 | 650 | 650 | 248 | 248 | 1,214 | 1,214 | 22 | 22 | | |
| 16 | 53 | 703 | 25 | 273 | 36 | 1,250 | 116 | 138 | | |
| 17 | 57 | 760 | 1,418 | 1,691 | 80 | 1,330 | 28 | 166 | | |
| 18 | 53 | 813 | 77 | 1,768 | 295 | 1,625 | 23 | 189 | | |
| 19 | 68 | 881 | 73 | 1,841 | 49 | 1,674 | 23 | 212 | 14 | 14 |
| 20 | 226 | 1,107 | 201 | 2,042 | 1,442 | 3,116 | 32 | 244 | 38 | 52 |
| 21 | 240 | 1,347 | 177 | 2,219 | 56 | 3,172 | 9 | 253 | 56 | 108 |
| 22 | 65 | 1,412 | 224 | 2,443 | 62 | 3,234 | 41 | 294 | 67 | 175 |
| 23 | 64 | 1,476 | 185 | 2,628 | 61 | 3,295 | 30 | 324 | 85 | 260 |
| 24 | 100 | 1,576 | 1,476 | 4,104 | 81 | 3,376 | 38 | 362 | 84 | 344 |
| 25 | 206 | 1,782 | 7,270 | 11,374 | 165 | 3,541 | 20 | 382 | 44 | 388 |
| 26 | 139 | 1,921 | 775 | 12,149 | 177 | 3,718 | 29 | 411 | 111 | 499 |
| 27 | 204 | 2,125 | 217 | 12,366 | 303 | 4,021 | 82 | 493 | 75 | 574 |
| 28 | 0 | 2,125 | 396 | 12,762 | 374 | 4,395 | 116 | 609 | 84 | 658 |
| 29 | 0 | 2,125 | 858 | 13,620 | 582 | 4,977 | 51 | 660 | 336 | 994 |
| 30 | 349 | 2,474 | 1,350 | 14,970 | 665 | 5,642 | 190 | 850 | 296 | 1,290 |
| July 1 | 666 | 3,140 | 1,860 | 16,830 | 598 | 6,240 | 293 | 1,143 | 479 | 1,769 |
| 2 | 2,161 | 5,301 | 7,988 | 24,818 | 485 | 6,725 | 312 | 1,455 | 374 | 2,143 |
| 3 | 2,298 | 7,599 | 614 | 25,432 | 933 | 7,658 | 237 | 1,692 | 1,041 | 3,184 |
| 4 | 3,039 | 10,638 | 634 | 26,066 | 435 | 8,093 | 181 | 1,873 | 873 | 4,057 |
| 5 | 4,425 | 15,063 | 790 | 26,856 | 607 | 8,700 | 336 | 2,209 | 934 | 4,991 |
| 6 | 6,571 | 21,634 | 1,164 | 28,020 | 1,020 | 9,720 | 232 | 2,441 | 836 | 5,827 |
| 7 | 2,765 | 24,399 | 707 | 28,727 | 1,686 | 11,406 | 434 | 2,875 | 791 | 6,618 |
| 8 | 4,624 | 29,023 | 873 | 29,600 | 2,703 | 14,107 | 518 | 3,393 | 814 | 7,432 |
| 9 | 0 | 29,023 | 1,152 | 30,752 | 1,717 | 15,826 | 1,063 | 4,456 | 905 | 8,337 |
| 10 | 5,937 | 34,960 | 1,152 | 31,904 | 1,517 | 17,343 | 1,255 | 5,711 | 1,451 | 9,788 |
| 11 | 8,952 | 43,912 | 793 | 32,697 | 1,231 | 18,574 | 1,042 | 6,753 | 3,381 | 13,169 |
| 12 | 5,967 | 49,879 | 602 | 33,299 | 1,303 | 19,877 | 1,331 | 8,084 | 1,619 | 14,788 |
| 13 | 2,926 | 52,805 | 604 | 33,903 | 1,647 | 21,524 | 1,424 | 9,508 | 2,020 | 16,808 |

1/ Sonar counters malfunctioned during 1971.

Appendix Table 17 continued:

Kasilof River Sockeye Sonar Counts cont.
1968--1973 1/

| | 1968 | cum | 1969 | cum | 1970 | cum | 1972 | cum | 1973 | cum |
|---|---|---|---|---|---|---|---|---|---|---|
| July 14 | 3,851 | 56,656 | 766 | 34,669 | 1,528 | 23,052 | 991 | 10,499 | 1,555 | 18,363 |
| 15 | 3,574 | 60,230 | 488 | 35,157 | 1,336 | 24,388 | 817 | 11,316 | 1,946 | 20,309 |
| 16 | 3,104 | 63,334 | 424 | 35,581 | 1,437 | 25,825 | 340 | 11,656 | 1,295 | 21,604 |
| 17 | 3,248 | 66,582 | 623 | 36,204 | 1,013 | 26,838 | 852 | 12,508 | 2,264 | 23,868 |
| 18 | 3,495 | 70,077 | 468 | 36,672 | 693 | 27,531 | 782 | 13,290 | 1,118 | 24,986 |
| 19 | 3,282 | 73,359 | 569 | 37,241 | 662 | 28,193 | 553 | 13,843 | 951 | 25,937 |
| 20 | 2,181 | 75,540 | 576 | 37,817 | 773 | 28,966 | 3,518 | 17,361 | 3,091 | 29,028 |
| 21 | 3,340 | 78,880 | 397 | 38,214 | 500 | 29,466 | 5,547 | 22,908 | 947 | 29,975 |
| 22 | 2,649 | 81,529 | 569 | 38,783 | 294 | 29,760 | 23,093 | 46,001 | 1,159 | 31,134 |
| 23 | 2,157 | 83,686 | 464 | 39,247 | 552 | 30,312 | 25,606 | 71,607 | 2,019 | 33,153 |
| 24 | 2,506 | 86,192 | 639 | 39,886 | 750 | 31,062 | 28,372 | 99,979 | 1,543 | 34,696 |
| 25 | 1,932 | 88,124 | 1,342 | 41,228 | 1,175 | 32,237 | 1,816 | 101,795 | 1,206 | 35,902 |
| 26 | 2,086 | 90,210 | 949 | 42,177 | 810 | 33,047 | 1,756 | 103,551 | 820 | 36,722 |
| 27 | 662 | 90,872 | 328 | 42,505 | 705 | 33,752 | 1,697 | 105,248 | 872 | 34,594 |
| 28 | 741 | 91,613 | 253 | 42,758 | 411 | 34,163 | 1,514 | 106,762 | 469 | 38,063 |
| 29 | 635 | 92,248 | 293 | 43,051 | 796 | 34,959 | 1,184 | 107,946 | 371 | 38,434 |
| 30 | 460 | 92,708 | 264 | 43,315 | 408 | 35,367 | 1,068 | 109,014 | 280 | 38,714 |
| 31 | | | 254 | 43,569 | 325 | 35,692 | 814 | 109,828 | 429 | 39,143 |
| Aug. 1 | | | 214 | 43,783 | 228 | 35,920 | 1,195 | 111,023 | 191 | 39,334 |
| 2 | | | 248 | 44,031 | 388 | 36,308 | 921 | 111,944 | 282 | 39,616 |
| 3 | | | 194 | 44,225 | 449 | 36,757 | | | 318 | 39,934 |
| 4 | | | 420 | 44,645 | 428 | 37,185 | | | 256 | 40,190 |
| 5 | | | 317 | 44,962 | 100 | 37,285 | | | | |
| 6 | | | 210 | 45,172 | | | | | | |
| 7 | | | 317 | 45,489 | | | | | | |
| 8 | | | 100 | 45,589 | | | | | | |

1/ Sonar counters malfunctioned during 1971.

Appendix Table 18.
Commercial harvest brood year percentage (weighed by catch) for the years 1967 through 1973. (1967-1970 Central district only, 1971-1973 Northern and Central districts combined).

BROOD YEAR

| Year of harvest | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | n |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Age | 7 | 6 | 5 | 4 | 3 | | | | | | |
| 1967 | 0.8 | 18.7 | 68.8 | 11.5 | 0.2 | | | | | | 1,580 |
| Age | | 7 | 6 | 5 | 4 | 3 | | | | | |
| 1968 | | 0.2 | 18.5 | 53.9 | 27.4 | | | | | | 3,826 |
| Age | | | 7 | 6 | 5 | 4 | 3 | | | | |
| 1969 | | | 0.3 | 16.7 | 68.7 | 14.3 | | | | | 2,394 |
| Age | | | | 7 | 6 | 5 | 4 | 3 | | | |
| 1970 | | | | 1.5 | 17.7 | 61.3 | 19.4 | 0.1 | | | 3,195 |
| Age | | | | | 7 | 6 | 5 | 4 | 3 | | |
| 1971[1/] | | | | | | 12.8 | 75.3 | 11.9 | | | 2,061 |
| Age | | | | | | 7 | 6 | 5 | 4 | 3 | |
| 1972[1/] | | | | | | 1.2 | 24.9 | 55.3 | 18.6 | | 3,842 |

[1/] Includes Northern district data.

TOTAL AGE

| 6-year average | 7 | 6 | 5 | 4 | 3 |
|---|---|---|---|---|---|
| | .7 | 18.2 | 63.9 | 17.2 | |

Numbers of fish produced by brood year in commercial harvest.
TOTAL AGE

| Brood year | 3 | 4 | 5 | 6 | 7 | Total |
|---|---|---|---|---|---|---|
| 1960 | | | | | 11,300 | |
| 1961 | | | | 263,500 | 2,200 | |
| 1962 | | | 969,400 | 204,400 | 2,000 | 1,175,800[1/] |
| 1963 | | 162,000 | 595,600 | 115,600 | 10,900 | 884,100 |
| 1964 | 2,800 | 302,800 | 475,400 | 129,000 | | 910,000 |
| 1965 | | 99,000 | 446,900 | 81,400 | 9,690 | 636,990 |
| 1966 | | 141,400 | 478,900 | 204,550 | | 824,950 |
| 1967 | 700 | 75,700 | 453,524 | 74,342 | | |
| 1968 | | 152,177 | 560,087 | | | |
| 1969 | 316 | 37,750 | | | | |

[1/] Incomplete data.

Appendix Table 19.
Sockeye salmon age data by percent from escapement samples collected from the Kenai River for years 1966 through 1973.

| | Age Class | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | $3_2$ 1.1 | $4_2$ 1.2 | $5_2$ 1.3 | $6_2$ 1.4 | $4_3$ 2.1 | $5_3$ 2.2 | $6_3$ 2.3 | $7_3$ 2.4 | $5_4$ 3.1 | $6_4$ 3.2 | $7_4$ 3.3 | $8_4$ 3.4 | n |
| 1966 | 0.5 | 14.5 | 57.4 | 0.3 | 0.1 | 9.4 | 17.6 | 0.1 | | 0.1 | | | 738 |
| 1967 | | 6.0 | 61.5 | 1.7 | | 6.6 | 23.1 | | | | 1.1 | | 182 |
| 1968 | | 24.8 | 37.8 | 0.9 | 0.6 | 10.8 | 25.1 | | | | | | 331 |
| 1969 | 0.3 | 8.6 | 36.1 | 1.6 | 2.9 | 36.4 | 13.1 | 0.3 | 0.3 | | 0.5 | | 382 |
| 1970 | 0.4 | 10.2 | 17.3 | 0.4 | 25.8 | 24.9 | 15.1 | 0.4 | 0.9 | 4.0 | | 0.4 | 225 |
| 1971 | | 8.3 | 38.7 | 1.3 | 2.9 | 37.5 | 11.3 | | | | | | 168 |
| 1972 | 0.2 | 21.3 | 33.3 | 0.2 | 0.5 | 23.1 | 20.3 | 0.2 | | 0.7 | | | 403 |
| 1973 | 0.3 | 4.9 | 68.5 | 0.8 | 1.1 | 8.1 | 16.1 | 0.3 | | | | | 632 |
| AVE: | 0.2 | 13.5 | 40.3 | 0.9 | 4.7 | 21.2 | 17.9 | 0.1 | 0.2 | 0.7 | 0.2 | T | 99.9% |

Brood Year

| Year | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Age | 7 | 6 | 5 | 4 | 3 | | | | | | | |
| 1966 | 0.1 | 18.0 | 66.8 | 14.6 | 0.5 | | | | | | | |
| Age | | 7 | 6 | 5 | 4 | 3 | | | | | | |
| 1967 | | 1.1 | 24.8 | 68.1 | 6.0 | | | | | | | |
| Age | | | 7 | 6 | 5 | 4 | 3 | | | | | |
| 1968 | | | | 26.0 | 48.6 | 25.4 | | | | | | |
| Age | | | | 7 | 6 | 5 | 4 | 3 | | | | |
| 1969 | | | | 0.8 | 14.7 | 72.8 | 11.5 | 0.3 | | | | |
| Age | | | | 8 | 7 | 6 | 5 | 4 | 3 | | | |
| 1970 | | | | 0.4 | 0.4 | 19.5 | 43.1 | 36.0 | 0.4 | | | |
| Age | | | | | | | 6 | 5 | 4 | 3 | | |
| 1971 | | | | | | | 12.6 | 76.2 | 11.2 | | | |
| Age | | | | | | | 7 | 6 | 5 | 4 | 3 | |
| 1972 | | | | | | | 0.2 | 21.3 | 56.3 | 21.8 | 0.2 | |
| Age | | | | | | | | 7 | 6 | 5 | 4 | 3 |
| 1973 | | | | | | | | 0.2 | 16.9 | 76.6 | 6.0 | 0.3 |

| TOTAL AGE: | 7-year average | 7 | 6 | 5 | 4 | 3 |
|---|---|---|---|---|---|---|
| | | 0.6 | 19.3 | 62.6 | 17.5 | 0.4 |

Appendix Table 20.
Sockeye salmon age data from escapement samples collected from the Kasilof River for years 1966 through 1973.

Age Class

| Year | $3_2$ 1.1 | $4_2$ 1.2 | $5_2$ 1.3 | $6_2$ 1.4 | $4_3$ 2.1 | $5_3$ 2.2 | $6_3$ 2.3 | $7_3$ 2.4 | $7_4$ 3.3 | n |
|---|---|---|---|---|---|---|---|---|---|---|
| 1966 | | 28.0 | 61.7 | | | 3.0 | 7.3 | | | 68 |
| 1967 | | 7.9 | 64.9 | | | 7.9 | 19.3 | | | 114 |
| 1968 | | 46.8 | 35.1 | | | 5.2 | 12.9 | | | 77 |
| 1969 | | 14.0 | 39.0 | 0.9 | | 30.5 | 15.6 | | | 339 |
| 1970 | 0.3 | 32.0 | 37.0 | 1.7 | | 16.5 | 11.1 | 1.3 | | 297 |
| 1971 | | 6.5 | 69.3 | | | 8.5 | 15.7 | | | 153 |
| 1972 | 0.3 | 42.2 | 35.5 | 0.7 | 0.1 | 3.4 | 17.5 | 0.3 | 0.1 | 668 |
| 1973 | | 19.5 | 57.0 | | | 19.0 | 4.5 | | | |
| AVE. | 0.1 | 24.6 | 49.9 | 0.4 | T | 11.8 | 13.0 | 0.2 | T | 100% |

Brood Year

| Year of Return | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 |
|---|---|---|---|---|---|---|---|---|---|---|
| Age | 6 | 5 | 4 | | | | | | | |
| 1966 | 7.3 | 64.7 | 28.0 | | | | | | | |
| Age | | 6 | 5 | 4 | | | | | | |
| 1967 | | 19.3 | 72.8 | 7.9 | | | | | | |
| Age | | | 6 | 5 | 4 | | | | | |
| 1968 | | | 12.9 | 40.3 | 46.8 | | | | | |
| Age | | | | 6 | 5 | 4 | | | | |
| 1969 | | | | 16.5 | 69.5 | 14.0 | | | | |
| Age | | | | 7 | 6 | 5 | 4 | 3 | | |
| 1970 | | | | 1.3 | 12.8 | 53.5 | 32.0 | 0.3 | | |
| Age | | | | | | 6 | 5 | 4 | | |
| 1971 | | | | | | 15.7 | 77.8 | 6.5 | | |
| Age | | | | | | 7 | 6 | 5 | 4 | 3 |
| 1972 | | | | | | 0.4 | 18.3 | 38.8 | 42.2 | 0.3 |
| Age | | | | | | | 7 | 6 | 5 | 4 |
| 1973 | | | | | | | | 4.5 | 76.0 | 19.5 |

| TOTAL AGE: | 8-year average | 7 | 6 | 5 | 4 | 3 |
|---|---|---|---|---|---|---|
| | Percent | 0.2 | 13.4 | 61.7 | 24.6 | 0.1 |

Appendix Table 21. 1968 Cook Inlet salmon catch by stat area and gear. 1/

| NORTHERN DISTRICT | | KINGS | REDS | COHOS | PINKS | CHUMS | TOTALS |
|---|---|---|---|---|---|---|---|
| Set net | 247 | 471 | 140,575 | 156,648 | 534,839 | 58,454 | 890,987 |
| CENTRAL DISTRICT | | | | | | | |
| Drift | 244 | 136 | 451,389 | 138,135 | 733,016 | 852,780 | 2,175,456 |
| | 245 | 47 | 113,414 | 27,955 | 140,288 | 147,836 | 429,540 |
| | 246 | | 2,147 | 1,519 | 8,490 | 7,513 | 19,669 |
| Total drift | | 183 | 566,950 | 167,609 | 881,794 | 1,008,129 | 2,624,665 |
| Set net | 244 | 3,304 | 317,535 | 80,828 | 785,887 | 1,563 | 1,189,117 |
| | 245 | 439 | 47,271 | 47,433 | 51,356 | 37,760 | 184,259 |
| | 246 | 139 | 32,565 | 16,242 | 23,117 | 1,997 | 74,060 |
| Total set net | | 3,882 | 397,371 | 144,503 | 860,360 | 41,320 | 1,447,436 |
| Seine | 245 | | 8 | 1,690 | 1,204 | 11,211 | 14,113 |
| Central total | | 4,065 | 964,329 | 313,802 | 1,743,358 | 1,060,660 | 4,086,214 |
| SOUTHERN DISTRICT | | | | | | | |
| Seine | 241 | 30 | 2,975 | 3,229 | 141,419 | 3,114 | 150,767 |
| Set net | 241 | 31 | 15,741 | 1,431 | 12,614 | 1,289 | 31,106 |
| Southern total | | 61 | 18,716 | 4,660 | 154,033 | 4,403 | 181,873 |
| OUTER DISTRICT | | | | | | | |
| Seine | 232 | | 4 | 3 | 13,155 | 84 | 13,246 |
| | 241 | | | | | 115 | 115 |
| | 242 | 1 | 16 | 21 | 88,353 | 13,309 | 101,700 |
| Outer total | | 1 | 20 | 24 | 101,508 | 13,508 | 115,061 |
| KAMISHAK DISTRICT | | | | | | | |
| Seine | 243 | | 491 | 53 | 170,376 | 23,009 | 193,929 |
| | 248 | | 1 | 48 | 27,877 | 26,452 | 54,378 |
| Kamishak total | | | 492 | 101 | 198,253 | 49,461 | 248,307 |
| EASTERN DISTRICT | | | | | | | |
| Drift | 231 | 2 | 65,750 | 4 | 5 | 11 | 65,772 |
| Seine | 231 | | 8,734 | | 37,374 | 721 | 46,829 |
| | 232 | | 1,534 | 85 | 103,338 | 6,974 | 111,931 |
| | 233 | | | 1 | 4,085 | 140 | 4,226 |
| Eastern total | | 2 | 76,018 | 90 | 144,802 | 7,846 | 228,758 |
| 1968 Summary by gear | | | | | | | |
| 01, Seine | | 31 | 13,763 | 5,130 | 587,181 | 85,129 | 691,234 |
| 03, Drift | | 185 | 632,700 | 167,613 | 881,799 | 1,008,140 | 2,690,437 |
| 04, Set net | | 4,384 | 553,687 | 302,582 | 1,407,813 | 101,063 | 2,369,529 |
| TOTAL CATCH | | 4,600 | 1,200,150 | 475,325 | 2,876,793 | 1,194,332 | 5,751,200 |

1/ Taken from 1968 IBM statistical run.

Appendix Table 22. 1969 Cook Inlet salmon catch by stat area and gear. 1/

| NORTHERN DISTRICT | | KINGS | REDS | COHOS | PINKS | CHUMS | TOTALS |
|---|---|---|---|---|---|---|---|
| Set net | 247 | 2,904 | 38,065 | 20,425 | 7,620 | 11,836 | 80,850 |
| CENTRAL DISTRICT | | | | | | | |
| Drift | 244 | 240 | 294,754 | 25,021 | 6,423 | 171,674 | 498,112 |
| | 245 | 123 | 77,007 | 8,033 | 1,813 | 66,823 | 153,799 |
| Total Drift | | 363 | 371,761 | 33,054 | 8,236 | 238,497 | 651,911 |
| Set net | 244 | 5,834 | 210,877 | 18,988 | 10,968 | 399 | 247,066 |
| | 245 | 1,768 | 42,691 | 20,370 | 2,744 | 16,651 | 84,224 |
| | 246 | 1,518 | 28,500 | 8,022 | 2,970 | 311 | 41,321 |
| Total set net | | 9,120 | 282,068 | 47,380 | 16,682 | 17,361 | 372,611 |
| Seine | 245 | 11 | 360 | 93 | 884 | 2,161 | 3,509 |
| Central total | | 9,494 | 654,189 | 80,527 | 25,802 | 258,019 | 1,028,031 |
| SOUTHERN DISTRICT | | | | | | | |
| Seine | 241 | 26 | 1,008 | 239 | 60,036 | 1,302 | 62,611 |
| Set net | 241 | 33 | 11,570 | 246 | 10,717 | 1,298 | 23,864 |
| Southern total | | 59 | 12,578 | 485 | 70,753 | 2,600 | 86,475 |
| OUTER DISTRICT | | | | | | | |
| Seine | 232,241 | | 92 | 11 | 51,533 | 5,400 | 57,036 |
| KAMISHAK DISTRICT | | | | | | | |
| Seine | 243,248 | 2 | 10,723 | 121 | 80,157 | 53,193 | 144,196 |
| EASTERN DISTRICT | | | | | | | |
| Seine | 231 | | 294 | | | | 294 |
| Drift | 231 | 3 | 99,109 | 6 | 1 | 10 | 99,129 |
| Eastern total | | 3 | 99,403 | 6 | 1 | 10 | 99,423 |
| 1969 Cook Inlet Summary by gear | | | | | | | |
| 01, Seine | | 39 | 12,477 | 464 | 192,610 | 62,056 | 267,646 |
| 03, Drift | | 366 | 470,870 | 33,060 | 8,237 | 238,507 | 751,040 |
| 04, Set net | | 12,057 | 331,703 | 68,051 | 35,019 | 30,495 | 477,325 |
| TOTAL CATCH | | 12,462 | 815,050 | 101,575 | 235,866 | 331,058 | 1,496,011 |

1/ Taken from 1969 IBM statistical run.

Appendix Table 23. 1970 Cook Inlet salmon catch by stat area and gear. [1/]

| NORTHERN DISTRICT | | KINGS | REDS | COHOS | PINKS | CHUMS | TOTALS |
|---|---|---|---|---|---|---|---|
| Set net | 247 | 1,460 | 66,419 | 82,529 | 173,694 | 22,493 | 346,595 |
| CENTRAL DISTRICT | | | | | | | |
| Drift | 244 | 211 | 320,121 | 77,519 | 265,901 | 494,514 | 1,158,266 |
| | 245 | 147 | 139,544 | 32,188 | 67,508 | 183,017 | 422,404 |
| Total Drift | | 358 | 459,665 | 109,707 | 333,409 | 677,531 | 1,580,670 |
| Set net | 244 | 5,367 | 142,421 | 30,264 | 281,396 | 1,228 | 460,676 |
| | 245 | 781 | 32,900 | 31,737 | 11,157 | 45,646 | 122,221 |
| | 246 | 381 | 29,776 | 20,742 | 14,104 | 2,814 | 67,817 |
| Total set net | | 6,529 | 205,097 | 82,743 | 306,657 | 49,688 | 650,714 |
| Seine | 245 | | 33 | 194 | 135 | 25,455 | 25,817 |
| Central total | | 6,887 | 664,795 | 192,644 | 640,201 | 752,674 | 2,257,201 |
| SOUTHERN DISTRICT | | | | | | | |
| Seine | 241 | 64 | 665 | 2,390 | 189,554 | 6,298 | 198,971 |
| Set net | 241 | 26 | 11,455 | 1,154 | 18,512 | 1,575 | 32,722 |
| Southern total | | 90 | 12,120 | 3,544 | 208,066 | 7,873 | 231,693 |
| OUTER DISTRICT | | | | | | | |
| Seine | 232 | 2 | 4,129 | 19 | 59,518 | 6,602 | 70,270 |
| | 241 | | 22 | 90 | 9,819 | 50,855 | 60,786 |
| | 242 | 3 | 26 | 134 | 233,422 | 61,292 | 294,877 |
| Outer total | | 5 | 4,177 | 243 | 302,759 | 118,749 | 425,933 |
| KAMISHAK DISTRICT | | | | | | | |
| Seine | 243 | | 2,840 | 53 | 10,215 | 14,690 | 27,798 |
| | 248 | | 6 | 165 | 12,285 | 81,151 | 93,607 |
| Kamishak total | | | 2,846 | 218 | 22,500 | 95,841 | 121,405 |
| EASTERN DISTRICT | | | | | | | |
| Drift | 231 | 4 | 1,598 | 7 | 26 | 7 | 1,642 |
| Troll | 231 | 6 | 97 | 657 | 7 | 1 | 768 |
| Seine | 231 | 1 | 60 | 27 | 40,193 | 625 | 40,906 |
| Eastern total | | 11 | 1,755 | 691 | 40,226 | 633 | 43,316 |
| | | | 1970 Summary by gear | | | | |
| 01, Seine | | 70 | 7,781 | 3,072 | 555,141 | 246,968 | 813,032 |
| 03, Drift | | 362 | 461,263 | 109,714 | 333,435 | 677,538 | 1,582,312 |
| 04, Set net | | 8,015 | 282,971 | 166,426 | 498,863 | 73,756 | 1,030,031 |
| 05, Troll | | 6 | 97 | 657 | 7 | 1 | 768 |
| TOTAL CATCH | | 8,453 | 752,112 | 279,869 | 1,387,446 | 998,263 | 3,426,143 |

[1/] Totals vary from final stat run due to errors in the IBM run.

Appendix Table 24. 1971 Cook Inlet salmon catch by stat area and gear. 1/

| NORTHERN DISTRICT | | KINGS | REDS | COHOS | PINKS | CHUMS | TOTALS |
|---|---|---|---|---|---|---|---|
| Set net | 247 | 9,598 | 40,533 | 22,094 | 8,423 | 16,603 | 97,251 |
| CENTRAL DISTRICT | | | | | | | |
| Drift | 244 | 88 | 368,278 | 26,161 | 5,040 | 188,061 | 587,628 |
| | 245 | 149 | 54,829 | 9,330 | 1,393 | 86,506 | 152,207 |
| Total drift | | 237 | 423,107 | 35,491 | 6,433 | 274,567 | 739,835 |
| Set net | 244 | 7,055 | 111,505 | 16,589 | 18,097 | 128 | 153,374 |
| | 245 | 1,598 | 37,086 | 18,110 | 1,449 | 32,170 | 90,413 |
| | 246 | 1,277 | 24,058 | 8,078 | 1,188 | 477 | 35,078 |
| Total set net | | 9,930 | 172,649 | 42,777 | 20,734 | 32,775 | 278,865 |
| Seine | 245 | | 14 | 274 | 34 | 3,084 | 3,406 |
| Central total | | 10,167 | 595,770 | 78,542 | 27,201 | 310,426 | 1,022,106 |
| SOUTHERN DISTRICT | | | | | | | |
| Seine | 241 | | 5 | 1,702 | 41,495 | 1,505 | 44,707 |
| Set net | 241 | 41 | 18,398 | 1,449 | 8,564 | 1,352 | 29,804 |
| Southern total | | 41 | 18,403 | 3,151 | 50,059 | 2,857 | 74,511 |
| OUTER DISTRICT | | | | | | | |
| Seine | 232 | 11 | 1,626 | 17 | 119,661 | 56 | 121,371 |
| | 241 | | | 54 | 10,426 | 114,489 | 124,969 |
| | 242 | | 4 | 103 | 180,630 | 4,450 | 185,187 |
| Outer total | | 11 | 1,630 | 174 | 310,717 | 118,995 | 431,527 |
| KAMISHAK DISTRICT | | | | | | | |
| Seine | 243 | | 2 | 7 | 15,708 | 1,599 | 17,316 |
| | 248 | | 1 | 114 | 16,386 | 24,728 | 41,229 |
| Kamishak total | | | 3 | 121 | 32,094 | 26,327 | 58,545 |
| EASTERN DISTRICT | | | | | | | |
| Drift | 231 | 16 | 2,198 | | | 422 | 2,636 |
| Troll | 231 | 5 | | 1,102 | 1 | 1 | 1,109 |
| | 233 | | | 13 | | | 13 |
| Eastern total | | 21 | 2,198 | 1,115 | 1 | 423 | 3,758 |
| 1971 Summary by gear | | | | | | | |
| 01, Seine | | 11 | 1,652 | 2,271 | 384,340 | 149,911 | 538,185 |
| 03, Drift | | 253 | 425,305 | 35,491 | 6,433 | 274,989 | 742,471 |
| 04, Set net | | 19,569 | 231,580 | 66,320 | 37,721 | 50,730 | 405,920 |
| 05, Troll | | 5 | | 1,115 | 1 | 1 | 1,122 |
| TOTAL CATCH | | 19,838 | 658,537 | 105,197 | 428,495 | 475,631 | 1,687,698 |

1/ Taken from 1971 IBM statistical run.

Appendix Table 25. 1972 Cook Inlet salmon catch by stat area and gear [1/]

| NORTHERN DISTRICT | | KINGS | REDS | COHOS | PINKS | CHUMS | TOTALS |
|---|---|---|---|---|---|---|---|
| Set net | 247 | 4,912 | 85,737 | 19,346 | 90,830 | 19,780 | 220,605 |
| CENTRAL DISTRICT | | | | | | | |
| Drift | 244 | 168 | 415,304 | 17,119 | 104,296 | 476,352 | 1,013,239 |
| | 245 | 207 | 90,977 | 4,458 | 10,827 | 88,419 | 194,888 |
| Total drift | | 375 | 506,281 | 21,577 | 115,123 | 564,771 | 1,208,127 |
| Set net | 244 | 8,600 | 204,617 | 24,673 | 403,706 | 1,729 | 643,325 |
| | 245 | 1,352 | 53,980 | 12,013 | 11,497 | 38,179 | 117,021 |
| | 246 | 847 | 29,196 | 3,287 | 7,416 | 2,000 | 42,746 |
| Total set net | | 10,799 | 287,793 | 39,973 | 422,619 | 41,908 | 803,092 |
| Seine | 245 | | 13 | 37 | 8 | 3,689 | 3,747 |
| Central total | | 11,174 | 794,087 | 61,587 | 537,750 | 610,368 | 2,014,966 |
| SOUTHERN DISTRICT | | | | | | | |
| Set net | 241 | 69 | 31,340 | 323 | 6,303 | 2,819 | 40,854 |
| Seine | 241 | | 5 | 960 | 2,823 | 2,117 | 5,905 |
| Southern total | | 69 | 31,345 | 1,283 | 9,126 | 4,936 | 46,759 |
| OUTER DISTRICT | | | | | | | |
| Seine | 232 | 7 | 26,420 | 3 | 682 | 2,434 | 29,546 |
| | 241 | | 3 | 14 | 323 | 41,056 | 41,396 |
| Outer total | | 7 | 26,423 | 17 | 1,005 | 43,490 | 70,942 |
| KAMISHAK DISTRICT | | | | | | | |
| Seine | 243 | | 47 | 5 | 334 | 6,504 | 6,890 |
| | 248 | | | 26 | 8 | 19,870 | 19,904 |
| Kamishak total | | | 47 | 31 | 342 | 26,374 | 26,794 |
| EASTERN DISTRICT | | | | | | | |
| Troll | 231 | 10 | | 902 | | | 912 |
| Drift | 231 | 2 | 77 | | 1 | 55 | 135 |
| Seine | 231 | | 5 | 1 | 18,189 | 688 | 18,883 |
| Eastern total | | 12 | 82 | 903 | 18,190 | 743 | 19,930 |
| 1972 Summary by gear | | | | | | | |
| 01, Seine | | 7 | 26,493 | 1,046 | 22,367 | 76,358 | 126,271 |
| 03, Drift | | 377 | 506,358 | 21,577 | 115,124 | 564,826 | 1,208,262 |
| 04, Set net | | 15,780 | 404,870 | 59,642 | 519,752 | 64,507 | 1,064,551 |
| 05, Troll | | 10 | | 902 | | | 912 |
| TOTAL CATCH | | 16,174 | 937,721 | 83,167 | 657,243 | 705,691 | 2,399,996 |

[1/] Taken from the 1972 IBM statistical run.

Appendix

Table 26. 1973 Cook Inlet salmon catch by stat area and gear.[1/]

| NORTHERN DISTRICT | | KINGS | REDS | COHOS | PINKS | CHUMS | TOTALS |
|---|---|---|---|---|---|---|---|
| Set net | 247 | 170 | 45,614 | 23,951 | 137,250 | 30,851 | 237,836 |
| CENTRAL DISTRICT | | | | | | | |
| Drift | 244 | 179 | 326,427 | 24,685 | 77,422 | 489,315 | 918,028 |
| | 245 | 65 | 49,268 | 7,099 | 14,479 | 116,423 | 187,334 |
| Total drift | | 244 | 375,695 | 31,784 | 91,901 | 605,738 | 1,105,362 |
| Set net | 244 | 4,411 | 188,743 | 23,901 | 80,596 | 1,965 | 299,616 |
| | 245 | 214 | 25,144 | 17,127 | 10,070 | 27,956 | 80,511 |
| | 246 | 155 | 34,829 | 7,657 | 6,367 | 1,063 | 50,071 |
| Total set net | | 4,780 | 248,716 | 48,685 | 97,033 | 30,984 | 430,198 |
| Seine | 245 | 0 | 0 | 0 | 0 | 0 | 0 |
| Central Total | | 5,024 | 624,411 | 80,469 | 188,934 | 636,722 | 1,535,560 |
| SOUTHERN DISTRICT | | | | | | | |
| Seine | 241 | 5 | 102 | 152 | 77,352 | 1,214 | 78,825 |
| Set net | 241 | 134 | 23,970 | 1,089 | 20,222 | 2,374 | 47,789 |
| Southern Total | | 139 | 24,072 | 1,241 | 97,574 | 3,588 | 126,614 |
| OUTER DISTRICT | | | | | | | |
| Seine | 232 | 1 | 5,052 | 4 | 10,031 | 40,909 | 55,997 |
| | 241 | | 1 | 2 | 279 | 408 | 690 |
| | 242 | | 10 | 25 | 186,949 | 35,024 | 222,008 |
| Outer Total | | 1 | 5,063 | 31 | 197,259 | 76,341 | 278,695 |
| KAMISHAK DISTRICT | | | | | | | |
| Seine | 243 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 248 | | 1 | 28 | 12,568 | 35,584 | 48,181 |
| Kamishak Total | | | 1 | 28 | 12,568 | 35,584 | 48,181 |
| EASTERN DISTRICT | | | | | | | |
| Troll | 231 | | | 790 | 2 | | 792 |
| | 233 | 5 | | 11 | | | 16 |
| Eastern Total | | 5 | | 801 | 2 | | 808 |
| 1973 summary by gear | | | | | | | |
| 01 - Seine | | 6 | 5,166 | 211 | 287,179 | 113,139 | 405,701 |
| 03 - Drift | | 244 | 375,695 | 31,784 | 91,901 | 605,738 | 1,105,362 |
| 04 - Set net | | 5,084 | 318,373 | 73,725 | 254,503 | 64,209 | 715,896 |
| 05 - Troll | | 5 | | 801 | 2 | | 808 |
| Total Catch | | 5,339 | 699,234 | 106,521 | 633,587 | 783,086 | 2,227,767 |

[1/]Source: 1973 IBM statistical run; 10-24-74.

Appendix Table 27.
Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average price to fishermen |
|---|---|---|---|
| Alaskan Seafoods, Inc.<br>Box 173<br>Homer, Alaska 99603 | Homer Spit | Frozen: | |
| | | Reds | .75 per lb. |
| | | Cohos | .40 per lb. |
| | | Pinks | .31 per lb. |
| | | Chums | .38 per lb. |
| | | Halibut | .80 per lb. |
| | | King Crab (whole) | .70 per lb. |
| | | Dungeness Crab (whole) | .60 per lb. |
| | | Tanner Crab (whole) | .17 per lb. |
| | | Shrimp (whole) | .35 per lb. |
| | | Shrimp (machine picked) | .07 per lb. |
| Alaskan Scallop Fleet, Inc.<br>P.O. Box 7<br>Seward, Alaska 99664 | Seward | Frozen: | |
| | | Scallops (fresh) | 1.26 per lb. |
| Columbia Wards Fisheries<br>P.O. Box 30, University Station<br>Seattle, Washington 98105 | Kenai | Canned #1: | |
| | | Kings | .50 per lb. |
| | | Reds | .70 per lb. |
| | | Cohos | .50 per lb. |
| | | Pinks | .30 per lb. |
| | | Chums | .42 per lb. |
| | | Frozen: | |
| | | Kings | .50 per lb. |
| | | Reds | .70 per lb. |
| | | Cohos | .50 per lb. |
| | | Pinks | .30 per lb. |
| | | Chums | .42 per lb. |
| | | Halibut | .71 per lb. |

Appendix Table 27 continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| D-J Enterprises<br>Box 493<br>Seward, Alaska 99664 | Seward, Alaska | Fresh & Frozen: | |
| | | Cohos | .90 per lb. |
| | | Pinks | .35 per lb. |
| | | Reds | .70 per lb. |
| | | Halibut | .75 per lb. |
| | | Shrimp | 1.75 per lb. |
| Dan's Cold Storage<br>Box 122<br>Ninilchik, Alaska 99639 | Ninilchik, Alaska | Frozen: | |
| | | Kings | .71 per lb. |
| | | Reds | .65 per lb. |
| | | Cohos | .68 per lb. |
| | | Pinks | .26 per lb. |
| | | Chums | .40 per lb. |
| Ed's Kasilof Seafoods<br>Box 18<br>Kasilof, Alaska | Kasilof, Alaska | Frozen: | |
| | | Kings | .70 per lb. |
| | | Reds | .65-.80 per lb. |
| | | Cohos | .35-.70 per lb. |
| | | Pinks | .27 per lb. |
| | | Chums | .38 per lb. |
| Martin L. Goresen<br>M/V Seahawk<br>Box 1436<br>Seward, Ak. 99664 | Seward, Alaska | Salted: | |
| | | Herring (sac roe) | 147.73 per ton |
| | | Herring roe (on kelp) | .50 per lb. |
| Thomas Harris & James Lawson<br>M/V Reel Dope<br>4811 Malibu Rd.<br>Anchorage, Ak. 99501 | Resurrection Bay | Frozen: | |
| | | Herring (bait) | 150.00 per ton |

Appendix Table 27 continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| Laura A. Hermansen<br>3418 East 68th Ave.<br>Anchorage, Alaska 99507 | So. Humpy Point | Fresh: | |
| | | Kings | .65 per lb. |
| | | Reds | .60 per lb. |
| | | Cohos | .30 per lb. |
| | | Pinks | .26 per lb. |
| Tarvald Jensen & Co.<br>Box 23<br>Ninilchik, Alaska | Ninilchik, Alaska | Smoked: | |
| | | Kings | .70 per lb. |
| | | Reds | .70 per lb. |
| | | Chums | .40 per lb. |
| Keener Packing Co.<br>Rt. 2<br>Soldotna, Alaska 99669 | Soldotna, Alaska | Frozen: | |
| | | Kings | .70 per lb. |
| | | Reds | .68 per lb. |
| | | Cohos | .52 per lb. |
| | | Pinks | .26 per lb. |
| | | Chums | .31 per lb. |
| | | Canned - 1/2 lb. cans | |
| | | Kings | .70 per lb. |
| | | Cohos | .52 per lb. |
| | | Canned Smoked: | |
| | | Kings | .70 per lb. |
| | | Cohos | .52 per lb. |
| Kenai Packers<br>1455 N Northlake Pl.<br>Seattle, Washington 98103 | Kenai, Alaska | Frozen and Canned: | |
| | | Kings | .70 per lb. |
| | | Reds | .60 per lb. |
| | | Cohos | .34 per lb. |
| | | Pinks | .26 per lb. |
| | | Chums | .37 per lb. |

Appendix Table 27 continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| Kenneth R. Lyons<br>Sterling Route<br>Homer, Ak. 99603 | Homer, Alaska | Fresh:<br>Shrimp (tails) | <br>2.00 per lb. |
| Paul A. Mitchell<br>Box 479 C SRA<br>Anchorage, Ak. 99502 | West side of Cook Inlet | Fresh:<br>Reds<br>Cohos | <br>.50 per lb.<br>.50 per lb. |
| North Coast Seafood Export<br>Box 645<br>Homer, Ak. 99603 | Homer, Ak. | Brine Packed:<br>Herring (roe)<br>Roe on kelp | <br>140.00 per lb.<br>.65 per lb. |
| Osmars Ocean Specialties<br>Box 38<br>Clam Gulch, Alaska | Clam Gulch, Alaska | Frozen:<br>Kings<br>Reds<br>Cohos<br>Pinks<br>Chums<br>Halibut | <br>.73 per lb.<br>.72 per lb.<br>.63 per lb.<br>.30 per lb.<br>.37 per lb.<br>.70 per lb. |
| R-Lee Seafoods, Inc.<br>Route 2<br>Soldotna, Alaska 99669 | Kalifonsky Beach | Frozen:<br>Kings<br>Reds<br>Cohos<br>Pinks<br>Chums<br>Herring (bait) | <br>.75 per lb.<br>.80 per lb.<br>.70 per lb.<br>.36 per lb.<br>.50 per lb.<br>.10 per lb. |
| Salamatof Seafoods, Inc.<br>Box 1045 Mi 17 N<br>Kenai, Ak. 99611 | Kenai, Alaska | Canned - 1 lb. cans:<br>Kings<br>Reds<br>Cohos<br>Pinks<br>Chums | <br>.80 per lb.<br>.80 per lb.<br>.70 per lb.<br>.28 per lb.<br>.44 per lb. |

Appendix Table 27continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| Terrell Schenk & Assoc., Inc.<br>Route 2<br>Kasilof, Ak. 99610 | Kasilof, Alaska | Frozen: | |
| | | Kings | .75 per lb. |
| | | Reds | .84 per lb. |
| | | Cohos | .70 per lb. |
| | | Pinks | .31 per lb. |
| | | Chums | .40 per lb. |
| Sea Shop<br>General Delivery<br>Homer, Ak. 99603 | Homer Spit | Frozen: | |
| | | King Crab | .82 per lb. |
| | | Dungeness Crab | .60 per lb. |
| | | Tanner Crab | .20 per lb. |
| | | Shrimp | .40 per lb. |
| Seward Fisheries<br>Box 516<br>Seward, Alaska 99664 | Seward, Ak. | Canned - 1 lb. cans: | |
| | | Kings | .64 per lb. |
| | | Reds | .56 per lb. |
| | | Cohos | .36 per lb. |
| | | Pinks | .31 per lb. |
| | | Chums | .41 per lb. |
| | | Frozen: | |
| | | Kings | .64 per lb. |
| | | Reds | .56 per lb. |
| | | Cohos | .36 per lb. |
| | | Chums | .41 per lb. |
| | | Halibut | .71 per lb. |
| | | Herring | .07 per lb. |
| | | King Crab | .64 per lb. |
| | | Dungeness Crab | .60 per lb. |
| | | Tanner Crab | .17 per lb. |
| | | Shrimp | .26 per lb. |
| | | Scallops | 1.26 per lb. |
| | | Gray Cod | .22 per lb. |
| | | Bottom Fish | .20 per lb. |

Appendix Table 27 continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| Seward Marine Services<br>Box 335<br>Seward, Alaska 99664 | Seward, Alaska | Herring Roe | .08 per lb. |
| Smoked Alaskan Seafoods<br>Box 13<br>Clam Gulch, Alaska 99568 | Clam Gulch, Ak. | Canned & Smoked - 8 oz. can<br>Reds<br>Cohos | <br>.76 per lb.<br>.68 per lb. |
| Sourdough Kitchens<br>P.O. Box 166<br>Seldovia, Ak. 99663 | Cinder River | Fresh:<br>Cohos | <br>.35 per lb. |
| Sparkys Seafoods<br>Box 160<br>Seldovia, Ak. 99664 | Seldovia, Ak. | Frozen:<br>King crab<br>Dungeness crab | <br>.60 per lb.<br>.35 per lb. |
| Tidewater Packing Co.<br>Box 1842<br>Anchorage, Ak. 99501 | Anchorage, Ak. | Canned & Smoked - 1/2 #<br>Reds<br>Cohos<br>Pinks<br>Chums<br>Fresh:<br>Reds | <br>.70 per lb.<br>.50 per lb.<br>.30 per lb.<br>.42 per lb.<br><br>.70 per lb. |
| Western Alaska Enterprises, Inc.<br>Suite 705; 1424 4th Avenue<br>Seattle, Washington 98101 | Soldatna, Alaska | Frozen:<br>Kings<br>Reds<br>Cohos<br>Pinks<br>Chums | |

Appendix Table 27 continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| Whitney-Fidalgo Seafoods, Inc.<br>P.O. Box 99008<br>Seattle, Washington 98199 | Anchorage, Alaska | Canned - 1/2 lb. cans: | |
| | | Kings | .70 per lb. |
| | | Reds | .70 per lb. |
| | | Cohos | .50 per lb. |
| | | Pinks | .30 per lb. |
| | | Chums | .42 per lb. |
| | | Brined: | |
| | | Herring roe | .08 per lb. |
| Whitney-Fidalgo Seafoods, Inc.<br>2360 W. Commodore Way<br>Seattle, Washington 98199 | Port Graham, Ak. | Canned-1 lb. cans: | |
| | | Kings | .70 per lb. |
| | | Reds | .70 per lb. |
| | | Cohos | .50 per lb. |
| | | Pinks | .30 per lb. |
| | | Chums | .42 per lb. |
| | | Brined: | |
| | | Herring roe | .08 per lb. |
| Whitney-Fidalgo Seafoods, Inc.<br>2360 W. Commodore Way<br>Seattle, Washington 98199 | Anchorage, Ak. | Frozen: | |
| | | Kings | .59 per lb. |
| | | Reds | .78 per lb. |
| | | Cohos | .53 per lb. |
| | | Pinks | .26 per lb. |
| | | Chums | .45 per lb. |
| | | Halibut | .73 per lb. |
| | | Herring | .08 per lb. |
| | | King crab | .80 per lb. |
| Whitney-Fidalgo Seafoods, Inc.<br>P.O. Box 99008<br>Seattle, Washington 98199 | Homer, Ak. | Frozen: | |
| | | King crab | .65 per lb. |

Appendix Table 27 continued:

Cook Inlet-Resurrection Bay area processors and related data, 1973.

| Commercial Operator | Plant Location | Product | Average Price to fishermen |
|---|---|---|---|
| Williams Processing<br>P.O. Box 1232<br>Homer, Ak. 99603 | Homer, Alaska | Frozen: | |
| | | King crab | .45 per lb. |
| | | Tanner Crab | .12 per lb. |
| | | Shrimp | .40 per lb. |
| 10th and M Lockers and Cold Storage, Inc.<br>1020 M. Street<br>Anchorage, Alaska 99501 | Anchorage, Alaska | Frozen: | |
| | | Kings | .80 per lb. |
| | | Reds | .70 per lb. |
| | | Cohos | .70 per lb. |
| | | Pinks | .33 per lb. |

Appendix Table 28
Temporary employees working in Cook Inlet management area, 1973.

| NAME | STEP | PROJECT |
|---|---|---|
| Benoit, Terry A. | Fishery Biologist I | Fish Creek |
| Castoldi, Robert | Fishery Biologist I | Shellfish |
| DeJong, Bob | Fishery Biologist I | Fish Creek |
| Dunaway, Dan | Fish Technician II | Talachulitna Tower |
| Friese, Nancy | Fishery Biologist I | Inventory |
| Gallup, John | Fish Technician III | Beach Survey |
| Garber, Mike | Fish Technician II | King Crab |
| Gensel, John | Fish Technician II | Pink Salmon Forecast |
| Gross, Joseph | Fish Technician II | Talachulitna Tower |
| Hannah, Robert D. | Fish Technician III | Susitna Stream Surveys |
| Henwood, Diane | Clerk Typist II | Office Help |
| Hill, Ken | Fishery Biologist I | Kasilof Sonar |
| Hollier, Gary | Fish Technician III | Test Fish |
| Hollingsworth, Craig | Fish Technician III | Talachulitna Tower |
| House, Don E. | Fish Technician III | Test Fish |
| Luke, Jim | Fishery Biologist I | Kenai Sonar |
| McLean, Robert | Fish Technician III | Jean/Hidden |
| Nehus, Robert | Fishery Biologist I | Kalgin Island |
| Nelson, Robert | Fishery Biologist I | Susitna Stream Surveys |
| Sanders, Howard | Fish Technician III | Test Fish |
| Schaefer, Gary | Fishery Biologist I | Talachulitna Tower |
| Seitz, James | Fish Technician II | Kalgin Island |
| Sundstrom, Jeffery | Fishery Biologist I | Port Dick |
| Urch, Dolores | Clerk Typist II | Office Help |
| Watson, James B. | Fish Technician III | Pink Salmon Forecast |
| Wilcox, Ken | Fish Technician I | Port Dick |
| Wilton, John | Fish Technician III | Kenai Sonar |
| Yuen, Henry | Fishery Biologist I | Kalgin Island |
| Zempel, Mark | Fish Technician III | Kasilof Sonar |

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## SECTION II

Southern, Outer, Kamishak and Eastern districts.

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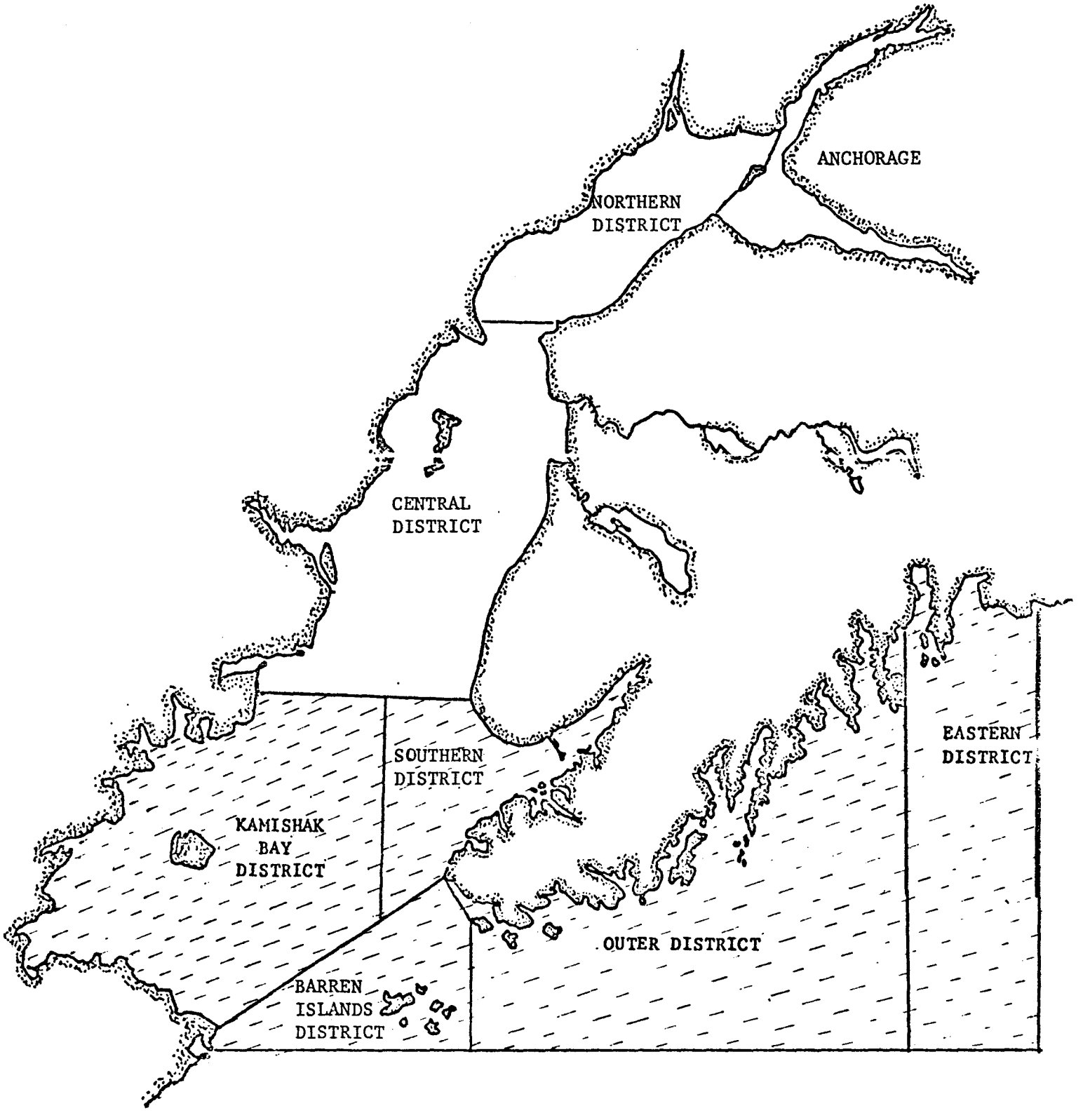
# INTRODUCTION

The Southern, Kamishak, Barren Islands, Outer, and Eastern districts of the Cook Inlet management area include all waters south of the latitude of Anchor Point, north of Cape Douglas and West of Cape Fairfield, including the Barren Islands, southern Cook Inlet, the Outer Kenai Peninsula and Resurrection Bay (Figure 1).

With the exception of razor clams, practically all shellfish harvested in the Cook Inlet area are from these districts. Trawl and pot caught shrimp, king, tanner and dungeness crabs are the primary commercial species. These shellfish are also harvested by subsistence/sport fishermen. In addition, cockles, scallops and various hardshelled and softshelled clams are utilized by subsistence/sport fishermen.

The five North American Pacific species of salmon are of commercial importance. Pink salmon are the "bread and butter" salmon for the area as a whole. Salmon are taken commercially by seines and set nets in the Southern district and by seines only in the other districts. Herring, halibut, cod, rockfish, pollock, smelt and other miscellaneous finfish are also taken by commercial and subsistence/sport fishermen.

Figure 1 Cook Inlet commercial fisheries management area



## SHRIMP

The Cook Inlet shrimp catch for 1973 totaled 4.9 million pounds. Table 1 shows the 1973 catch by month, number of landings and number of vessels participating. Appendix Table 1 shows Cook Inlet shrimp catches since 1960.

Trawl catches:

The 1973 trawl catch of 4,549,804 pounds was taken by ten boats making 338 landings. At present there are two quota periods for a portion of the Southern district (Kachemak Bay); June 1 through October 31 and November 1 through March 31, with a quota of 2.5 million pounds for each period. The remainder of Cook Inlet has a trawl season from June 1 through March 31 but does not have set quotas. Appendix Table 2 shows annual trawl shrimp landings in pounds for Cook Inlet, 1969-1973. Appendix Table 3 gives mean monthly catch per hour trawled in Kachemak Bay, 1969-1973.

Pot catches:

The 1973 Cook Inlet pot shrimp catch of 327,000 pounds was the greatest on record. For comparison recent annual catches are: 1972, 171,386 pounds; 1971, 53,462 pounds; 1970, 9,473 pounds. The increased catch for 1973 was attributable to three main factors: (1) increased effort; (2) good abundance of pot shrimp and (3) relatively steady market conditions. This fishery has been notorious for off and on marketing conditions in past years. Almost all the effort at the present time is in Kachemak Bay. In 1973, 41 boats made 761 landings. For past years: 1972, 17 boats, 361 landings; 1971, 11 boats, 187 landings; 1970, 8 boats, 33 landings (Appendix Table 4).

Table 1. Cook Inlet shrimp catches by month, pounds, vessels and landings 1973.

| Month | Trawls | Number of Vessels | Landings | Pots | Number of Vessels | Landings | Trawls and Pots Total Pounds |
|---|---|---|---|---|---|---|---|
| January | 450,873 | 5 | 45 | 13,883 | 7 | 39 | 464,756 |
| February | 443,266 | 5 | 33 | 35,585 | 6 | 66 | 478,851 |
| March | 102,614 | 1 | 6 | 18,964 | 9 | 47 | 121,578 |
| April | 49,625 | 2 | 2 | 32,780 | 9 | 77 | 82,405 |
| May | no fishing | 0 | 0 | 22,818 | 9 | 72 | 22,818 |
| June | 615,078 | 4 | 52 | 20,239 | 9 | 39 | 635,317 |
| July | 1,086,344 | 7 | 79 | 11,946 | 2 | 8 | 1,098,290 |
| August | 727,595 | 3 | 46 | 20,036 | 5 | 8 | 747,631 |
| September | 73,137 | 2 | 4 | 11,417 | 10 | 58 | 84,554 |
| October | no fishing | 0 | 0 | 34,088 | 15 | 99 | 34,088 |
| November | 431,023 | 3 | 38 | 66,864 | 17 | 160 | 497,887 |
| December | 570,249 | 3 | 33 | 38,380 | 19 | 88 | 608,629 |
| TOTAL | 4,549,804 | 10 | 338 | 327,000 | 41 | 761 | 4,876,804 |

**Economic value to fishermen: Trawl shrimp at .08 per pound ≈ 364 thousand dollars
Pot shrimp at .35 per pound ≈ 115 thousand dollars

Over 90% of the pot shrimp catches are coonstripes, basically a one-species fishery. Approximately 4% (200,000 pounds) of the trawl catch in Kachemak Bay is also composed of coonstripes.

If the market holds up, pot shrimping effort will continue to increase, therefore, a pot shrimp quota will be proposed for Kachemak Bay.

## KING CRAB

1973 Season:

The 1973 Cook Inlet king crab harvest of 4.4 million pounds fell short of the 1972 catch by .2 million pounds and exceeded the 1971 catch by .2 million pounds. The Southern district, which included the Kachemak Bay area accounted for 2.1 million pounds and the total for all other districts was 2.3 million pounds. The 1973 king crab catch in pounds, by district, by month, number of vessels and landings is given in Table 2. Catches by district since 1963 are given in Appendix Table 5. Landings and crab per landing since 1960 are shown in Appendix Table 6. Economic values are in Appendix Table 7.

Effort, as measured by number of landings, increased in the Cook Inlet area during 1973. In the Southern district, a total of 1,088 landings were made which was 77 more than in 1972 and 231 more than in 1971. In the Kamishak, Barren Islands and Outer districts 152 landings were made compared to 119 landings in 1972 and 134 landings in 1971. Catch per unit of effort as measured by landings divided into number of crabs taken, was as follows: In the Southern district crabs per landing totaled 253 in 1973 as compared to 236 in 1972 and 179 in 1971. In the Kamishak, Barren Islands and the Outer districts there were 1,976 king

Table 2. Cook Inlet king crab landings, in pounds, by district, by month, number of vessels, number of landings, 1973.

| Month | Southern Pounds | Southern Vessels | Southern Landings | Kamishak Pounds | Kamishak Vessels | Kamishak Landings | Barren Islands Pounds | Barren Islands Vessels | Barren Islands Landings | Outer Pounds | Outer Vessels | Outer Landings | Total Catch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 93,499 | 22 | 69 | 1,768 | 1 | 1 | 32,375 | 3 | 3 | 0 | 0 | 0 | 127,642 |
| Feb. | 308,347 | 25 | 160 | 0 | 0 | 0 | 7,524 | 1 | 1 | 0 | 0 | 0 | 315,871 |
| Mar. | 154,464 | 23 | 123 | 65,476 | 4 | 8 | 700 | 1 | 1 | 0 | 0 | 0 | 220,640 |
| Apr. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| May | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| June | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| July | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Aug. | 1,090,983 | 33 | 319 | 1,149,638 | 12 | 51 | 11,228 | 1 | 1 | 0 | 0 | 0 | 2,251,849 |
| Sept. | 193,788 | 30 | 136 | 337,046 | 11 | 21 | 39,514 | 2 | 3 | 1,161 | 1 | 1 | 571,509 |
| Oct. | 61,477 | 22 | 50 | 104,301 | 7 | 14 | 117,149 | 4 | 4 | 2,029 | 2 | 2 | 284,956 |
| Nov. | 94,074 | 30 | 126 | 171,255 | 10 | 13 | 166,713 | 7 | 11 | 548 | 1 | 1 | 432,590 |
| Dec. | 94,368 | 30 | 105 | 89,436 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 183,804 |
| TOTALS | 2,091,000 | 58 | 1,088 | 1,918,920 | 12 | 125 | 375,203 | 8 | 24 | 3,738 | 4 | 4 | 4,388,861 |

Total Vessels: 63 Total Landings: 1,241 Total Pounds: 4,388,861

crab per landing which was an average figure since the fishery began in 1961. Average weight of crabs landed in the Southern district for the entire year was 7.6 pounds, down about one pound from 1972. In the Kamishak, Barren Islands and Outer districts the average weight was also 7.6 pounds as compared to 8.2 pounds in 1972.

A significant increase in the abundance of recruit size king crabs was observed in both districts during 1973. In the Southern district 60% of the crab harvested in the summer fishery were recruits while in the Kamishak and Outer districts 67% were recruits. A comparison of length frequencies of commercial caught king crab taken in 1963 and in recent years appears in Appendix Table 8.

1973-1974 Quota Period:

The king crab season and quota period in Cook Inlet runs from August 1 to March 31. The quota in the Southern district is 2.0 million pounds while all other districts have a 3.5 million pounds quota. In April 1972, the Board increased the season by one month and increased the outside (all districts except Southern) quota by 1.0 million pounds. Redistribution of the outside quota of 3.5 million pounds, based on tagging which shows some stocks are fished in both quota areas, will be recommended. Preliminary figures indicate an approximate quota shortfall of 50,000 pounds in the Southern district and 1,000,000 pounds in all other districts combined.

Ice conditions in the Kamishak district prevented boats from fishing this area in 1974 until the latter part of March.

Each year biologists accompany commercial king crab boats to the fishing grounds to determine catch composition and timing of the reproductive cycle. Based on biological findings, decisions are made to regu-

late the closing date of the king crab season. In early 1974, because there was no fishery in the Kamishak district until after the middle of March, efforts were concentrated in the Southern district, or the Kachemak Bay area. By mid-March, molting of all king crab was well under way and egg hatching had started. On 5 trips made from March 1 through March 18, 45% of sublegal size and 5% of legal size crab were in new shell condition. By this same date, 12% of the female crab had completed egg hatching and had molted. For these reasons the Southern district was closed on March 20, 1974; 11 days earlier than the calendar closing. Data collected from the past several seasons indicate molting and mating is well under way by mid-March and a change recommending a mid-March season closure on king crab will be proposed.

## TANNER CRAB

The 1973 Cook Inlet tanner crab catch of 8.5 million pounds was the highest on record since the fishery developed. By way of comparison, the 1972 catch was 4.8 million pounds; 1971 catch was 2.1 million pounds; 1970, 1.3 million pounds; 1969, 1.5 million pounds; and in 1968, the first year of any commercial effort, the catch was 165 thousand pounds. The large catch in 1973 was the result of increased effort as 8 boats participated in the fishery and made 1,555 landings. In 1972, 43 boats fished for tanners and made 956 landings. In 1971, 40 boats fished for tanners; however, only 613 landings were made. 44% of the 1973 catch, 3.8 million pounds, was taken in the Southern district, 3.4 million pounds were taken in the Kamishak district and for the second consecutive year a substantial effort in the Outer and Eastern districts yielded 1.3 million pounds. The average weight of tanner crab in the commercial catch in 1973 was 2.6 pounds, compared to an average weight in 1972 of

2.5 pounds and in 1971 of 2.4 pounds. The catch, number of landings, number of vessels engaged in the fishery, and average weights by year since 1968 appear in Appendix Table 9.

The major portion of tanner crab harvested falls in the 140 to 160 mm class, which would be crab from about 5" to 6" in width. (Figures 2 and 3) One reason for the increase in tanner crab effort was the increase in prices paid to fishermen. In 1971 the average price paid was 11 cents per pound. By January of 1972 the fishermen were receiving 14 cents per pound and later in the year the price jumped to 17 cents per pound and ended the 1973-74 season at 20 cents. Many fishermen found that they could make more money fishing tanner crab than king crab and, as a result, effort on tanner crab was greatly expanded. Most landings that are made consist of both kings and tanners when both seasons are open concurrently. In past years, tanner crab catches were always incidental to king crab; however, for the past two seasons many fishermen concentrated effort on tanners and the king crab catches were incidental. Many fishermen used small mesh web on their king crab pots and equipped them with 4" tunnel openings even before the king crab season closed.

Tanner crab catches by district, by month for 1973 appear in Table 3, while the relationship between tanner crab catches and effort is depicted in Figure 4.

The lower catch per pot for Kachemak Bay, Spring of '74 (Table 4) combined with the dramatic increase in effort in all districts illustrates the need for more adequate conservation measures to properly manage the Cook Inlet tanner crab resource. Quotas for each primary fishing area and a change in season to harvest the available resource in those months when tanners are in better condition, will be proposed.

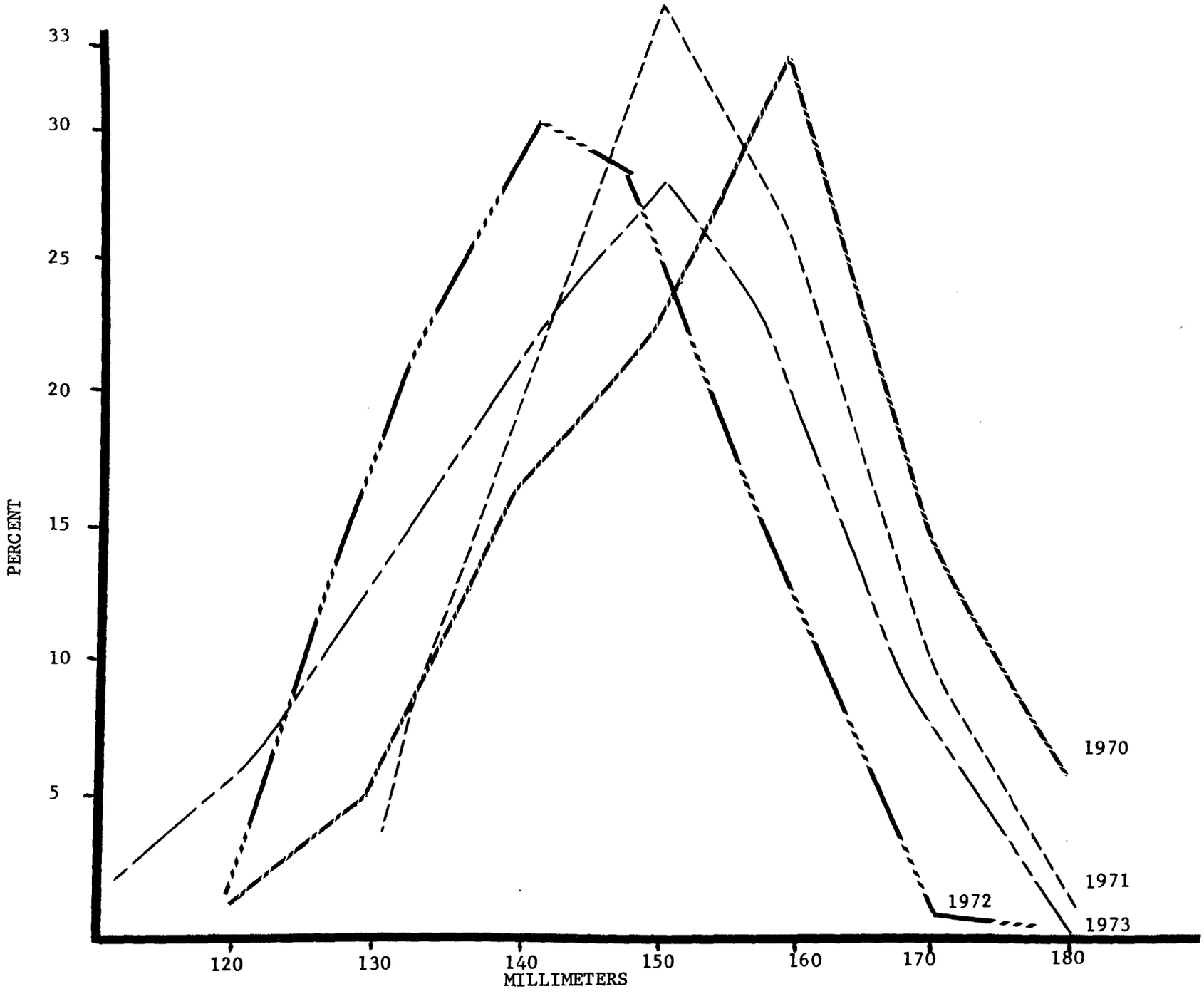



Figure 2. Tanner crab size frequencies, Cook Inlet

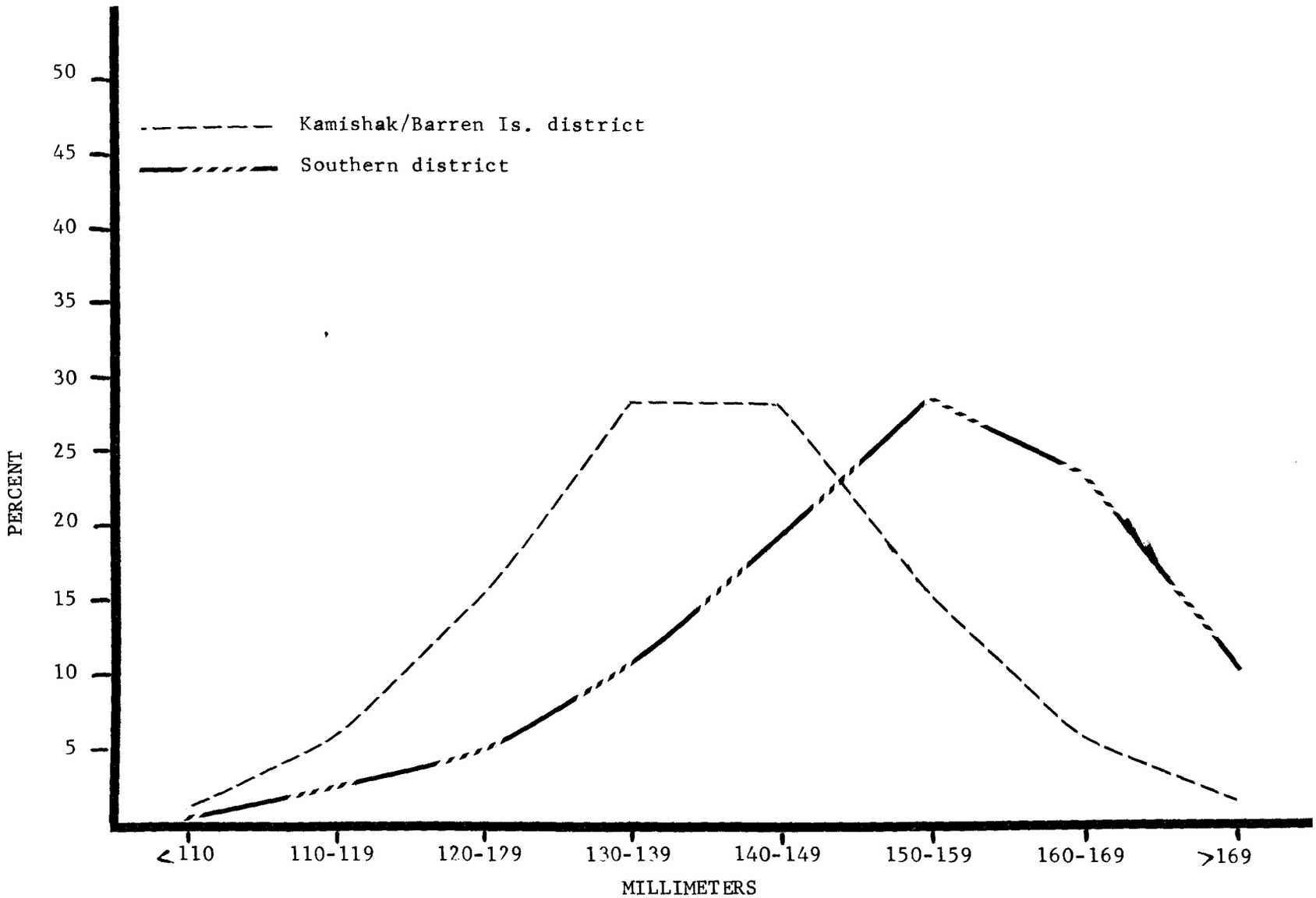



Figure 3. Cook Inlet tanner crab width frequencies, 1973.

Table 3. Cook Inlet tanner crab landings, in pounds, by district by month, number of vessels, number of landings, 1973.

| Month | District Southern | Kamishak | Barren Is. | Outer | Eastern | Total Catch |
|---|---|---|---|---|---|---|
| January | | | | | | |
| pounds | 223,061 | --- | 1,084 | --- | 12,464 | 236,609 |
| vessels | 23 | --- | 1 | --- | 1 | |
| landings | 83 | --- | 1 | --- | 2 | |
| February | | | | | | |
| pounds | 550,652 | --- | 8,312 | 244,672 | 77,666 | 881,302 |
| vessels | 28 | --- | 1 | 1 | 5 | |
| landings | 183 | --- | 1 | 8 | 5 | |
| March | | | | | | |
| pounds | 743,100 | 175,184 | 20,520 | 370,205 | 227,258 | 1,536,267 |
| vessels | 27 | 5 | 2 | 3 | 7 | |
| landings | 234 | 13 | 2 | 10 | 9 | |
| April | | | | | | |
| pounds | 554,320 | 933,783 | --- | 211,156 | 70,688 | 1,769,927 |
| vessels | 22 | 7 | --- | 3 | 5 | |
| landings | 152 | 28 | --- | 11 | 5 | |
| May | | | | | | |
| pounds | 336,687 | 1,183,135 | --- | 19,580 | 15,499 | 1,554,901 |
| vessels | 18 | 9 | --- | 2 | 2 | |
| landings | 82 | 39 | --- | 2 | 2 | |
| June | | | | | | |
| pounds | 229,648 | 1,088,796 | --- | 6,489 | 7,654 | 1,332,587 |
| vessels | 13 | 9 | --- | 1 | 1 | |
| landings | 62 | 44 | --- | 2 | 1 | |
| July | --- | --- | --- | --- | --- | --- |
| August | --- | --- | --- | --- | --- | --- |
| September | --- | --- | --- | --- | --- | --- |
| October | --- | --- | --- | --- | --- | --- |
| November | | | | | | |
| pounds | 829,179 | 22,200 | 10,238 | 220 | --- | 861,837 |
| vessels | 48 | 4 | 1 | 1 | --- | |
| landings | 383 | 9 | 2 | 1 | --- | |

Table 3 continued:

| Month | District Southern | Kamishak | Barren Is. | Outer | Eastern | Total Catch |
|---|---|---|---|---|---|---|
| December | | | | | | |
| pounds | 287,713 | 48,476 | --- | --- | --- | 336,189 |
| vessels | 41 | 8 | --- | --- | --- | |
| landings | 168 | 11 | --- | --- | --- | |
| TOTALS: | | | | | | |
| pounds | 3,754,360 | 3,451,574 | 40,154 | 852,322 | 411,209 | 8,509,619 |
| vessels | 68 | 15 | 5 | 4 | 9 | |
| landings | 1,347 | 144 | 6 | 34 | 24 | |

Total Vessels: 80 Total Landings: 1,555 Total Pounds: 8,509,619

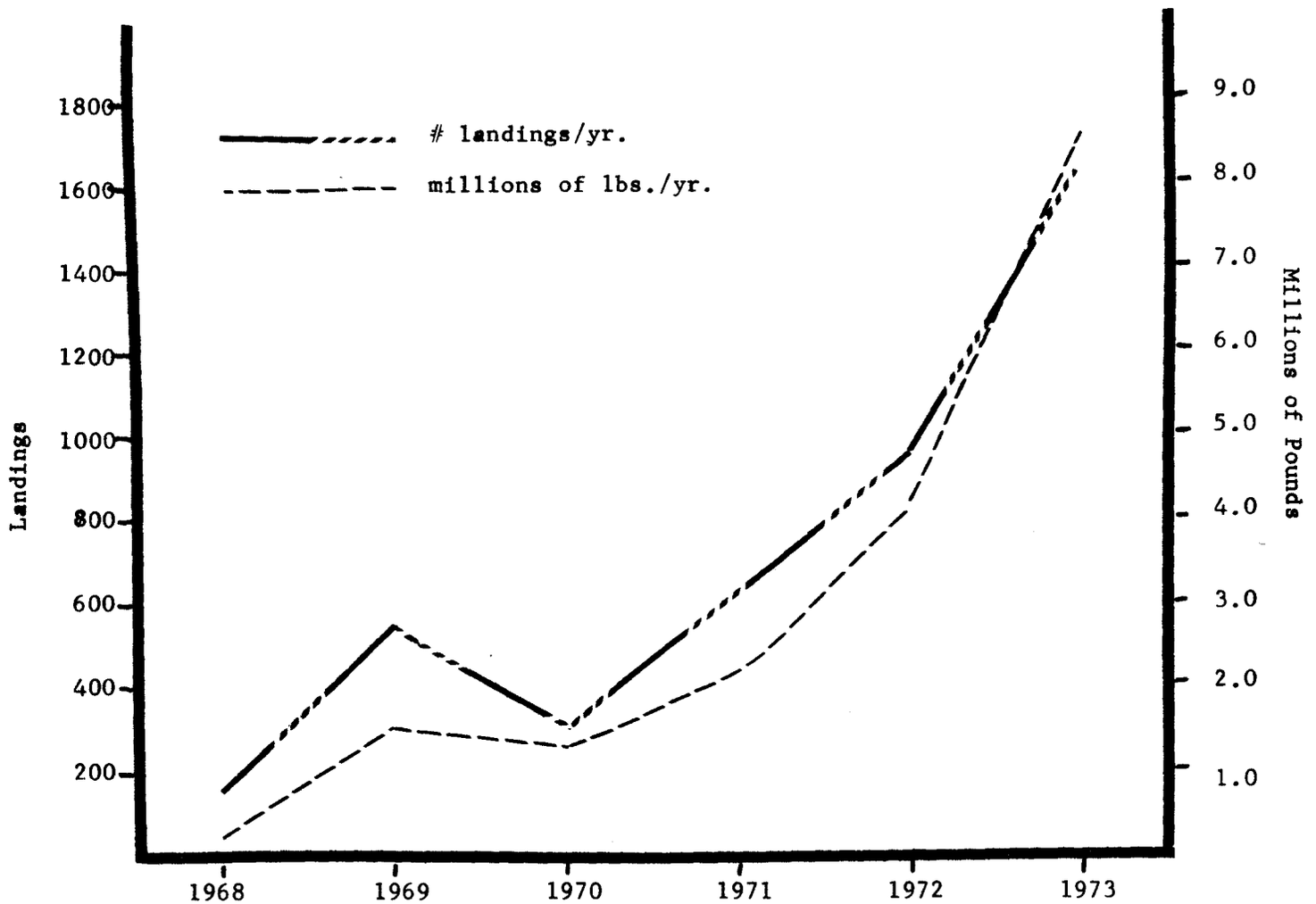



Figure 4. Tanner crab landings, Cook Inlet, 1968-1973.

Table 4. Shipboard sampling, tanner crab catches, Kachemak Bay.

| Year | No. of Trips | No. Pots Pulled | Total Tanners | Tanners Per Pot |
|---|---|---|---|---|
| March 1973 | 5 | 114 | 2,062 | 18 |
| March 1974 | 5 | 125 | 724 | 6 |

## DUNGENESS CRAB

The 1973 Cook Inlet dungeness crab catch of 310,048 pounds was the greatest on record since 1964. For comparison, recent yearly catches are: 1972, 38,930 pounds; 1971, 96,846 pounds; 1970, 208,577 pounds. The larger catch in 1973 was the result of increased effort as 51 boats participated in the fishery and made 625 landings. Table 5 gives the 1973 dungeness crab landings in pounds, by district, by month, number of vessels, and number of landings. In 1972, 23 boats made 225 dungeness landings. In 1971, 21 boats made 134 landings and in 1970, 9 boats made 49 landings. The major portion of all these catches were made in Kachemak Bay. Also in 1973, for the first time since 1968, the best fishing was in the late fall concentrated in outer Kachemak Bay near the outer corner of the crab sanctuary (Figure 5) on large "ocean" crabs, some weighing over 5 pounds. Appendix Table 10 shows the Cook Inlet dungeness crab catch in pounds by month for 1966-1973. Appendix Table 11 gives total annual catches since 1961.

The good price, over 60 cents per pound, and the resulting good wages made in 1973 have encouraged fishermen to invest in the Cook Inlet dungeness fishery. A significant increase in effort and gear is expected for 1974.

Because of the cyclic nature of the dungeness fishery, it may not be suitable for quota type management. However, a partial closure of Kachemak Bay during the breeding season to protect a portion of the dungeness stocks during this critical period will be proposed. Additional restrictions may be required with the expected increase in effort.

Table 5. Cook Inlet dungeness crab landings, in pounds, by district, by month, number of vessels, number of landings, 1973.

| Month | Southern Pounds | Southern Vessels | Southern Landings | Outer Pounds | Outer Vessels | Outer Landings | Total Pounds |
|---|---|---|---|---|---|---|---|
| January | 3,727 | 17 | 47 | | | | 3,727 |
| February | 703 | 15 | 58 | | | | 703 |
| March | 158 | 9 | 15 | | | | 158 |
| April | 4,032 | 6 | 21 | | | | 4,032 |
| May | 11,429 | 8 | 55 | 954 | 1 | 1 | 12,383 |
| June | 12,742 | 7 | 46 | | | | 12,742 |
| July | 7,861 | 5 | 25 | | | | 7,861 |
| August | 8,224 | 7 | 30 | | | | 8,224 |
| September | 36,069 | 21 | 36 | | | | 36,069 |
| October | 147,502 | 21 | 126 | | | | 147,502 |
| November | 68,243 | 29 | 108 | | | | 68,243 |
| December | 8,404 | 22 | 57 | | | | 8,404 |
| TOTALS | 309,094 | 50 | 624 | 954 | 1 | 1 | 310,048 |

Total vessels: 51[1/] Total landings: 625 Total pounds: 310,048

[1/] Eleven of these vessels delivered dungeness crabs as incidental catches with king and tanner crabs.

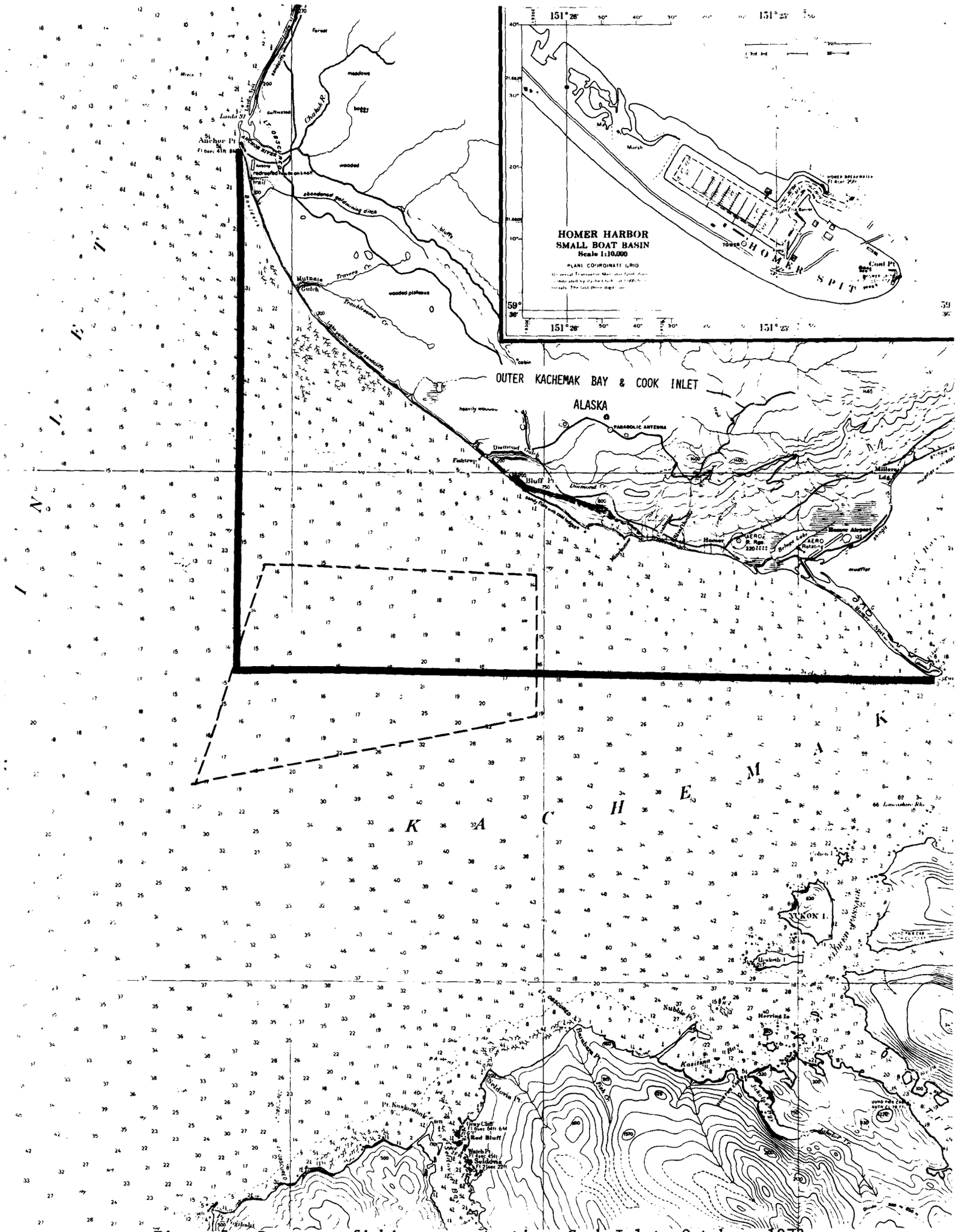



Figure 5. Dungeness fishing concentration, Cook Inlet, October, 1973.

## RAZOR CLAMS

One of the three Alaskan beaches approved for the commercial harvest of razor clams is in the Cook Inlet management area, Polly Creek beach, located on the western side of Cook Inlet north of Tuxedni Bay. This beach is in the Central district, however, since it is the only commercial shell fishery outside of the districts covered in this report, it is included here. The commercial razor clam season is open from September 1 through July 15. There is little restriction on legal gear, mechanical and hydraulic equipment is allowed; however, the commercial harvest in 1973 was taken by hand operated shovels. Landings by month for 1973 are shown in Table 6.

## MISCELLANEOUS SHELLFISH

Scallops:

There is no commercial scallop fishery in the Cook Inlet area at present. Commercial fishing for scallops is not allowed in most of Cook Inlet, including Kachemak and Kamishak Bays, and inshore waters of the Outer district. Scallop beds are located in some of these areas and would probably support an effort of two boats each fishing a single dredge of not over 10 feet in width. A scallop season, if proposed, should coincide with the period when most crab species are in hard shelled condition and are able to escape the slow moving dredge, October 1 through January 31. Areas of known concentration of dungeness crabs should be excluded from scallop dredging.

Octopii:

In 1973 octopii were landed commercially. These were taken incidentally

Table 6. Cook Inlet razor clam landings in pounds, by month, number of landings, 1973.

| Month | Pounds (in shell) | Landings |
|---|---|---|
| May | 5,508 | 25 |
| June | 17,553 | 73 |
| July | 11,354 | 47 |
| TOTALS | 34,415 | 145 |

in king crab pots and were sold for bait at 40 cents per pound to the fishermen. This year 5,800 pounds were landed, primarily from the Barren Islands district.

Hardshell Clams:

A one family operated cannery at Kasitsna Bay, near McDonald spit in the Southern district, has "grandfather's" rights and a history of Alaska Department of Health and Social Services monitored production. These clams are cooked and canned. Annual production records should be obtained for historical reference.

Sea Urchins:

Interest has been expressed in the commercial harvest of sea urchin roe. Extraction and salting of the roe prior to shipment would be required.

## SHELLFISH SUBSISTENCE

King, tanner and dungeness crabs are all harvested to some degree by subsistence/sport fishermen. Shrimp, primarily coonstripe, are taken using pots and ring nets. Cockles, scallops, other hard-shelled and soft-shelled clams are also utilized by the subsistence/sport fishermen. Most of this activity takes place in Kachemak Bay. The amount of effort and total harvest has not been documented. The amount of man days spent in these activities is considerable and increasing each year. The actual catch is insignificant compared to the commercial shellfish take but it is of economic (tourism) and personal importance to those involved.

## SALMON

Overview:

The 1973 salmon catch of 454.3 thousand (0.2 kings, 29.1 reds, 2.1 cohos, 307.4 pinks, and 115.5 chums) was the eighth poorest on record since 1954. The average annual catch for the past 20 years was 699.3 thousand. Table 7 shows the catch by statistical area for these districts in 1973. Appendix Table 12 shows catches by species by district since 1954. The 1973 catch by primary species by district and week for three districts is given in Table 8. Pink salmon catches by bay during even years is shown in Appendix Table 13. Pink salmon catches by bay during odd years is shown in Appendix Table 14.

Estimated pink salmon escapements, by primary system, for the Southern and Outer districts since 1962 are given in Appendix Table 15. Ground stream survey results from the Southern district in 1973 are shown in Table 9. Aerial surveys are given in Table 10. Ground stream survey results from the Outer district in 1973 are given in Table 11. Aerial surveys are shown in Table 12. Aerial surveys of the Kamishak district from 1965-1973 are given in Appendix Table 16.

Southern District:

The total salmon catch for the Southern district in 1973 was 126,614 fish and accounted for 5.7 percent of the total Cook Inlet catch. This was the best odd year catch since 1967. (Appendix Table 17)

Historically, pink salmon have furnished the major portion of the catch in the Southern district. (80%) The 1973 pink harvest of 97,574 was the best odd year harvest since 1963. However, it also appears that as of this year the odd-year run is now dominant for the first time since 1955, when over 1/2 million pink salmon were caught in the Southern district.

Table 7. 1973 salmon catch by species, gear and statistical area, Southern, Kamishak, Outer and Eastern districts of Cook Inlet.

| District | Species | | | | | |
|---|---|---|---|---|---|---|
| | Kings | Reds | Cohos | Pinks | Chums | Total |
| OUTER | | | | | | |
| 232-10 | 1 | 33 | 3 | 1,559 | 24,068 | 25,664 |
| -21 | | | | 1,325 | 5 | 1,330 |
| -22 | | | | | | 0 |
| -23 | | 1,075 | | 29 | 605 | 1,709 |
| Nuka Subtotals | 1 | 1,108 | 3 | 2,913 | 24,678 | 28,703 |
| 232-15 | | 380 | 1 | 5,192 | 16,162 | 21,735 |
| -30 | | 507 | | 9 | 14 | 530 |
| -40 | | 3,057 | | 1,917 | 55 | 5,029 |
| 241-40 | | 1 | 2 | 279 | 408 | 690 |
| 242-10,20 | | 5 | 7 | 21,713 | 652 | 22,377 |
| 242-31 | | | | 207 | 8 | 215 |
| -32 | | 4 | 13 | 68,469 | 939 | 69,425 |
| -41,42,43 | | 2 | 4 | 96,560 | 33,425 | 129,991 |
| OUTER TOTAL | 1 | 5,064 | 30 | 197,259 | 76,341 | 278,695 |
| SOUTHERN | | | | | | |
| 241-11,17 | | 4 | 2 | 18,688 | 38 | 18,732 |
| -12,16 | 3 | 38 | | 7,430 | 37 | 7,508 |
| -13,14,15 | 1 | 49 | 149 | 43,055 | 10 | 43,264 |
| -20,30 | 1 | 11 | 1 | 8,179 | 1,129 | 9,071 |
| Seine | 5 | 102 | 152 | 77,352 | 1,214 | 78,825 |
| Set net | 134 | 23,970 | 1,089 | 20,222 | 2,374 | 47,789 |
| SOUTHERN TOTAL | 139 | 24,072 | 1,241 | 97,574 | 3,588 | 126,614 |
| EASTERN[1/] | 5 | | 801 | 2 | | 808 |
| KAMISHAK | | 1 | 28 | 12,568 | 35,584 | 48,181 |
| GRAND TOTALS: | 145 | 29,137 | 2,100 | 307,403 | 115,513 | 454,298 |

1/ Salmon derby catches from Eastern district - no seine season.

Table 8. 1973 Salmon catch by week, Southern, Outer, and Kamishak districts.

| | Southern District | | | Outer District | | | Kamishak District | | |
|---|---|---|---|---|---|---|---|---|---|
| Week | Pinks | Chums | Reds | Pinks | Chums | Reds | Pinks | Chums | Reds |
| 23 | 4 | 19 | 2,787 | | | | | | |
| 24 | 6 | 38 | 2,302 | | | | | | |
| 25 | 73 | 46 | 1,726 | | | | | | |
| 26 | 1,157 | 195 | 4,729 | | | | | | |
| 27 | 3,602 | 236 | 5,364 | | | | | | |
| 28 | 22,318 | 1,262 | 3,402 | 21,003 | 4,800 | 2,179 | | | |
| 29 | 8,970 | 495 | 1,995 | 66,197 | 34,972 | 2,204 | | | |
| 30 | 28,872 | 725 | 981 | 75,022 | 21,529 | 673 | | | |
| 31 | 31,820 | 371 | 283 | 33,404 | 411 | 4 | 6,813 | 986 | |
| 32 | 600 | 169 | 73 | 277 | 433 | | 4,537 | 7,681 | |
| 33 | 142 | 25 | 12 | 1,077 | 10,788 | 2 | 641 | 14,953 | |
| 34 | 13 | 14 | | | | | 522 | 7,799 | |
| 35 | | | | | | | 55 | 4,179 | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |

Table 9. Ground stream surveys, Southern district, 1973.

| Stream | Date | Species | Inter-tidal | Stream | Total | Temp | Weather | Remarks |
|---|---|---|---|---|---|---|---|---|
| Humpy Creek | 7/14 | Pinks | -- | -- | -- | -- | -- | 700 off mouth |
| | 7/16 | Pinks | -- | 1 | 1 | -- | Overcast/calm | -- |
| | 7/30 | Pinks | 300 | 6,000 | 6,300 | -- | Overcast/wind | 11 boats |
| | 8/29 | Pinks | 1,000 | 15,610 | 16,610 | -- | Clear/calm | -- |
| | 10/9 | Pinks | 710 | 5 | 715 | -- | Clear/calm | -- |
| China Poot | 7/16 | Pinks | -- | 22 | 22 | -- | clear/calm | -- |
| | 8/7 | Pinks | 550 | 2,110 | 2,660 | -- | clear/calm | -- |
| | 8/29 | Pinks | 1,700 | 6,040 | 7,740 | -- | clear/calm | -- |
| | 9/3 | Pinks | 1,200 | 1,400 | 2,660 | -- | Overcast/calm | -- |
| Tutka | 7/17 | Pinks | 912 | 1,000 | 1,912 | -- | Overcast/calm | plus 1,000 in lagoon |
| | | Chums | 27 | 100 | 127 | | | |
| | 7/24 | Pinks | 2,670 | 300 | 2,970 | 47° | clear/calm | -- |
| | | Chums | 175 | 50 | 225 | | | |
| | 8/8 | Pinks | 2,327 | 630 | 2,957 | -- | clear/calm | -- |
| | 8/27 | pinks | 780 | 240 | 1,020 | -- | overcast/calm | -- |
| Seldovia | 7/16 | Pinks | 200 | 331 | 531 | -- | Overcast/calm | -- |
| | | Chums | -- | 67 | 67 | | | |
| | 7/18 | Pinks | -- | 1,000 | 1,000 | -- | -- | -- |
| | | Chums | -- | 200 | 200 | | | |
| | 7/24 | Pinks | 4,710 | 1,520 | 6,230 | 46° | clear/calm | -- |
| | | Chums | 120 | 150 | 270 | | | |
| | 7/29 | Pinks | 7,450 | 4,000 | 11,450 | -- | overcast/calm | -- |
| | | Chums | -- | 350 | 350 | -- | overcast/calm | -- |
| | 8/8 | Pinks | 6,550 | 3,000 | 9,550 | -- | clear/wind | -- |
| | | Chums | -- | -- | -- | | | |
| | 8/27 | Pinks | 1,189 | 760 | 1,949 | -- | overcast/calm | -- |

Table 9 continued:

| Stream | Date | Species | Inter-tidal | Stream | Total | Temp | Weather | Remarks |
|---|---|---|---|---|---|---|---|---|
| Port Graham | 7/16 | Pinks | 200 | -- | 200 | -- | overcast/wind | -- |
| | | Chums | 150 | 1,000 | 1,150 | | | |
| | 7/27 | Pinks | 130 | 2,341 | 2,471 | -- | -- | -- |
| | | chums | 15 | 1,855 | 187 | | | |
| | 8/9 | Pinks | -- | 3,790 | 3,790 | -- | -- | -- |
| | | Chums | -- | 1,131 | 1,131 | | | |
| | 8/27 | Pinks | -- | 2,278 | 2,278 | -- | overcast/calm | -- |
| | | Chums | -- | 1,467 | 1,467 | | | |

Table 10. Aerial surveys, Southern district, 1973.

| Stream | Date | Species | In Bay | In Stream | Weather | Remarks |
|---|---|---|---|---|---|---|
| Fox River | 6/28 | Reds | -- | 100 | clear/calm | at clearwater slough |
| | 7/2 | Reds | -- | 1,000 | -- | turning red |
| | 9/19 | Coho | -- | 1,500 | overcast/calm | at clearwater slough |
| Humpy Creek | 7/23 | Pinks | 10,000 | 2,000 | overcast/calm | -- |
| | 7/31 | Pinks | -- | 9,200 | overcast/calm | 7 boats |
| | 8/10 | Pinks | 3,000 | 14,000 | overcast/wind | PG 81 at mouth |
| Tutka | 7/6 | Pinks | 1,500 | few | clear/wind | -- |
| | 7/10 | Pinks | 1,000 | 30 | overcast/wind | 4 schools in Lagoon |
| Seldovia | 7/6 | Pinks | -- | 5,100 | clear/wind | 5,000 intertidal included |
| | 7/10 | Pinks | 2,000 | 30 | overcast/wind | -- |
| | 7/14 | Pinks | -- | 100 | overcast/wind | -- |
| Port Graham | 7/6 | Chums | -- | 200 | clear/wind | -- |
| | 7/10 | Chums | -- | 350 | overcast/wind | -- |
| | 7/18 | Pinks/Chums | -- | 3,000 | overcast/calm | -- |
| | 7/31 | Pinks/Chums | 500 | 6,000 | overcast/calm | -- |
| | 8/4 | Pinks/Chums | -- | 4,700 | overcast/wind | -- |
| | 8/7 | Pinks/Chums | -- | 2,500 | overcast/wind | -- |
| | 8/10 | Pinks/Chums | -- | 6,350 | overcast/wind | -- |
| English Bay (going upstream) | 8/4 | Reds | -- | -- | overcast/wind | -- |
| Lake 1 | | | | 100 | | |
| Stream | | | | 250 | | |
| Lake 2 | | | | 350 | | |
| Stream | | | | 150 | | |
| Lake 3 | | | | 1,000 | | |
| Lake 4 | | | | 0 | | |
| Stream | | | | 50 | | |
| Total (for English Bay) | | | | 1,900 | | |

Table 11. Ground stream surveys, Outer district, 1973.

| Stream | Date | Species | Inter-tidal | Stream | Total | Temp | Weather | Remarks |
|---|---|---|---|---|---|---|---|---|
| Dogfish (left) | 7/20 | Chums | -- | 155 | 155 | 48° | overcast/calm | -- |
| | 7/27 | Chums | 20 | 168 | 188 | -- | overcast/calm | -- |
| | 8/9 | Chums | -- | 155 | 155 | -- | overcast/wind | -- |
| | | Pinks | -- | 40 | 40 | -- | overcast/wind | -- |
| Dogfish (right) | 7/20 | Chums | -- | 105 | 105 | -- | overcast/calm | 3000 chums, upper ba |
| | | Pinks | -- | 35 | 35 | -- | | |
| | 7/27 | Chums | 341 | 71 | 412 | -- | overcast/calm | -- |
| | | Pinks | 50 | 200 | 250 | | | |
| | 8/9 | Chums | 310 | 167 | 477 | -- | overcast/wind | -- |
| | | Pinks | 310 | 166 | 476 | | | |
| Port Chatham | 7/19 | Chums | 25 | 73 | 98 | -- | clear/wind | -- |
| | | Pinks | 600 | 40 | 640 | | | |
| | 7/27 | Chums | -- | 120 | 120 | -- | light rain | -- |
| | | Pinks | -- | 550 | 550 | -- | | |
| | 8/3 | Chums | -- | 186 | 186 | -- | clear/calm | -- |
| | | Pinks | 292 | 750 | 1042 | | | |
| | 8/14 | Chums | -- | 195 | 195 | -- | clear/wind | -- |
| | | Pinks | 260 | 2912 | 3172 | | | |
| Windy (left) | 7/17 | Pinks | 3950 | 500 | 4450 | 48° | clear/calm | -- |
| | | Chums | 50 | 186 | 236 | | | |
| | 8/1 | Pinks | 3000 | 7000 | 10,000 | -- | overcast/calm | -- |
| | | Chums | -- | 710 | 710 | | | |
| | 8/18 | Pinks | 500 | 6520 | 7020 | -- | clear/wind | -- |
| | | Chums | -- | 237 | 237 | -- | | |
| Windy (right) | 7/17 | Pinks | 1400 | 51 | 1451 | 48° | overcast/calm | -- |
| | | Chums | 100 | 125 | 225 | | | |
| | 8/1 | Pinks | 680 | 3270 | 3950 | -- | overcast/calm | -- |
| | | Chums | 60 | 300 | 360 | | | |
| | 8/18 | Pinks | -- | 1900 | 1900 | -- | clear/wind | -- |
| | | Chums | -- | -- | -- | | | |
| Rocky | 8/2 | Pinks | -- | 750 | 750 | -- | overcast/calm | -- |
| | | Chums | 45 | 800 | 845 | | | |

Table 11 continued:

| Stream | Date | Species | Inter-tidal | Stream | Total | Temp | Weather | Remarks |
|---|---|---|---|---|---|---|---|---|
| Port Dick | 7/18 | Pinks | 2600 | -- | -- | 43° | clear/wind | 577 pinks; 449 chums through weir |
| | | Chums | 3500 | -- | -- | | | |
| | 7/23 | Pinks | 4050 | -- | -- | 43° | overcast/wind | 1339 pinks;544 chums through weir |
| | | Chums | 4300 | -- | -- | | | |
| | 7/28 | Pinks | 6040 | -- | -- | 43° | clear/wind | -- |
| | | Chums | 3750 | -- | -- | 43° | clear/wind | -- |
| | 8/10 | Pinks | 3000 | -- | -- | 44° | clear/wind | -- |
| | | Chums | 3000 | -- | -- | | | |
| | 8/20 | Pinks | 5700 | -- | -- | 44° | clear/calm | -- |
| | | Chums | 4300 | -- | -- | | | |
| | 8/30 | Pinks | 3450 | -- | -- | 44° | overcast/wind | -- |
| | | Chums | 2790 | -- | -- | | | |
| Right Hand | 8/10 | Pinks | 150 | 25 | 175 | 42° | clear/wind | -- |
| | | Chums | 230 | 20 | 250 | | | |
| | 8/16 | Pinks | 87 | 14 | 101 | 42° | clear/wind | -- |
| | | Chums | 63 | 11 | 74 | | | |
| Middle Creek | 7/8 | Pinks | -- | -- | -- | 43° | overcast/wind | -- |
| | | Chums | 29 | -- | 29 | | | |
| | 7/14 | Pinks | 20 | 8 | 28 | 43° | overcast/wind | -- |
| | | Chums | 217 | 53 | 270 | | | |
| (far left) | 7/19 | Pinks | -- | -- | -- | 47° | clear/calm | -- |
| | | Chums | -- | 556 | 556 | | | |
| | 7/19 | Pinks | 181 | 157 | 338 | 43° | clear/wind | -- |
| | | Chums | 323 | 233 | 556 | | | |
| | 7/27 | Pinks | 131 | 169 | 300 | 44° | clear/calm | -- |
| | | Chums | 253 | 347 | 600 | | | |
| | 8/7 | Pinks | -- | -- | 297 | 43° | clear/wind | -- |
| | | Chums | -- | -- | 553 | | | |
| | 8/15 | Pinks | 197 | 3 | 200 | 43° | heavy rain | -- |
| | | Chums | 503 | 18 | 521 | | | |
| | 8/23 | Pinks | 177 | 9 | 186 | 43° | overcast/wind | -- |
| | | Chums | 466 | 7 | 573 | | | |
| Island Creek | 7/8 | Chums | 55 | 15 | 70 | 43° | overcast/wind | -- |
| | 7/14 | Chums | 362 | 25 | 387 | 43° | overcast/wind | -- |
| | 7/19 | Chums | 230 | 560 | 790 | 47° | clear/calm | -- |

Table 11 continued:

| Stream | Date | Species | Inter-tidal | Stream | Total | Temp | Weather | Remarks |
|---|---|---|---|---|---|---|---|---|
| | 7/27 | Chums | 600 | 3520 | 4120 | 43 | clear/calm | -- |
| | 8/11 | Chums | 4000 | 4200 | 8200 | -- | -- | -- |
| | 8/20 | Chums | 5000 | 5500 | 10,500 | 43 | -- | -- |
| South Nuka | 7/18 | Pinks | 900 | -- | 900 | -- | clear/calm | -- |
| | | Chums | 450 | -- | 450 | | | |

Table 12. Aerial Surveys, Outer district, 1973.

| Stream | Date | Species | In Bay | In Stream(s) | Weather | Remarks |
|---|---|---|---|---|---|---|
| Dogfish | 7/14 | Chums | 500 | -- | overcast/wind | in upper lagoon |
| | 7/18 | Chums | -- | 80 | overcast/calm | -- |
| | 7/31 | Chums | 2,500 | 500 | overcast/calm | -- |
| | 8/1 | Chums | 2,500 | 600 | overcast/calm | -- |
| | 8/7 | Chums | 600 | 750 | overcast/wind | -- |
| | 8/10 | Chums | -- | 1,150 | overcast/wind | -- |
| Port Chatham | 7/6 | Chums | 2,500 | -- | clear/calm | outside of spit |
| | 7/14 | Chums | 5,000 | -- | overcast/wind | half inside spit |
| | 7/27 | Pinks | 8,000 | -- | overcast/wind | outside spit |
| | 7/31 | Pinks/Chums | 16,000 | 850 | overcast/calm | -- |
| | 8/1 | Pinks/Chums | 10,000 | 1,300 | clear/calm | -- |
| | 8/7 | Pinks | 3,800 | 400 | overcast/wind | -- |
| | 8/10 | Pinks | 2,700 | 1,500 | overcast/wind | -- |
| Windy Bay | 7/6 | Pinks | 5,500 | -- | clear/calm | -- |
| | 7/10 | Pinks | -- | 200 | overcast/wind | Windy left |
| | 7/14 | Pinks | 3,000 | 200 | overcast/wind | -- |
| | 7/18 | Pinks | 5,000 | 100 | overcast/calm | -- |
| | 7/20 | Pinks | 8,000 | 800 | overcast/calm | -- |
| | 7/31 | Pinks | 5,000 | 2,000 | overcast/calm | 5 boats; 1 tender |
| | 8/2 | Pinks | 2,000 | 13,000 | clear/calm | -- |
| Rocky River | 7/20 | Pinks | 1,000 | 200 | overcast/calm | -- |
| | | Chums | -- | 130 | | |
| | 7/31 | Pinks | 1,000 | 1,670 | overcast/calm | -- |
| | 8/2 | Pinks/Chums | 1,000 | 1,500 | clear/calm | -- |
| | 8/7 | Pinks/Chums | 200 | 950 | overcast/wind | -- |
| South Nuka | 7/6 | Pinks | 2,000 | -- | overcast/calm | -- |
| | 7/14 | Pinks | 2,000 | 1,000 | overcast/wind | -- |
| | 7/20 | Pinks | 4,000 | 2,000 | overcast/calm | -- |
| | 7/24 | Pinks | -- | 11,000 | overcast/wind | -- |
| | 7/31 | Pinks | 3,000 | 8,500 | overcast/calm | -- |
| | 8/8 | Pinks | 50 | 8,000 | clear/wind | -- |

Table 12 continued:

| Stream | Date | Species | In Bay | In Stream(s) | Weather | Remarks |
|---|---|---|---|---|---|---|
| Petrof | 7/20 | Chums | -- | 100 | overcast/calm | -- |
| | 7/24 | Chums | -- | 1,000 | overcast/calm | -- |
| | 7/31 | Chums | 1,000 | 730 | overcast/calm | -- |
| | 8/8 | Chums | -- | 5,000 | clear/wind | -- |
| Port Dick | 6/28 | Chums | 400 | -- | clear/wind | -- |
| | 7/10 | Chums | 1,500 | -- | overcast/wind | -- |
| | 7/20 | Pinks | 20,000 | -- | overcast/calm | on southside |
| | 7/31 | Chums/Pinks | 40,000 | -- | -- | -- |
| | 8/2 | Chums | 5,000 | -- | clear/calm | -- |
| | | Pinks | 40,000 | -- | | |
| | 8/8 | Pinks | 20,000 | -- | clear/wind | -- |
| Head Stream | 6/28 | Chums | -- | 70 | overcast/calm | -- |
| | 7/2 | Chums | -- | 1,200 | clear/wind | -- |
| | 7/10 | Chums | -- | 650 | overcast/wind | -- |
| | 7/14 | Chums | -- | 2,350 | overcast/wind | -- |
| | 7/18 | Chums | -- | 3,500 | overcast/calm | -- |
| | | Pinks | -- | 1,600 | | |
| | 7/20 | Pinks | -- | 2,500 | overcast/calm | -- |
| | 8/8 | Pinks | -- | 5,000 | clear/wind | -- |
| Rt. Hand | 7/14 | Chums | -- | 200 | overcast/wind | -- |
| | 7/18 | Chums/Pinks | -- | 100 | overcast/calm | -- |
| | 7/18 | Chums/Pinks | -- | 150 | overcast/calm | -- |
| | 7/20 | Chums/Pinks | -- | 200 | -- | -- |
| | 8/10 | Pinks | -- | 100 | overcast/wind | -- |
| Middle Creek | 7/14 | Chums | -- | 400 | overcast/wind | -- |
| | 7/18 | Chums | -- | 500 | overcast/calm | -- |
| | 7/20 | Chums/Pinks | -- | 500 | overcast/calm | -- |
| | 7/31 | Chums/Pinks | -- | 400 | -- | -- |
| | 8/8 | Chums/Pinks | -- | 350 | clear/wind | -- |
| | 8/10 | Chums/Pinks | -- | 600 | overcast/wind | -- |
| Island Creek | 7/14 | Chums | -- | 300 | overcast/wind | -- |
| | 7/18 | Chums | -- | 1,000 | overcast/calm | -- |

Table 12 continued:

| Stream | Date | Species | In Bay | In Stream(s) | Weather | Remarks |
|---|---|---|---|---|---|---|
| Island Creek | 7/20 | Chums | -- | 1,500 | overcast/calm | -- |
| | 7/31 | Chums | -- | 4,000 | -- | -- |
| | 8/8 | Chums | -- | 4,500 | clear/wind | -- |
| | 8/10 | Chums | -- | 4,000 | overcast/wind | -- |
| Desire | 6/28 | Reds | 600 | 50 | clear/windy | -- |
| | 7/7 | Reds | 5,000 | 2,500 | overcast/calm | middle of lake |
| | 7/24 | Reds | -- | 2,020 | overcast/wind | -- |
| | 7/31 | Reds | -- | 5,200 | overcast/calm | -- |
| | 8/8 | Reds | -- | 7,550 | clear/wind | -- |
| Delight | 6/28 | Reds | some | 600 | clear/windy | -- |
| | 7/2 | Reds | -- | 450 | clear/windy | includes 350 in lake |
| | 7/7 | Reds | -- | 300 | overcast/wind | west shore line |
| | 7/24 | Reds | -- | 250 | overcast/wind | plus 200 pinks in stream |
| | 7/31 | Reds | -- | 2,500 | overcast/calm | -- |
| | 8/8 | Reds | -- | 3,000 | clear/wind | -- |
| James Lagoon | 8/8 | Chums | -- | 200 | clear/wind | -- |
| Aialik | 6/28 | Reds | -- | -- | overcast/wind | jumpers in lagoon |
| | 7/2 | Reds | -- | 1,500 | -- | -- |

The 97,574 harvest is not an impressive catch for a dominant year. Over 99% of the red salmon catch of 24,072 was taken by set nets. This was the fifth largest catch since 1954 and contributed 19% of the total for 1973. The red catch averages 8.2% of the total Southern district catch over the twenty year period. The coho catch of 1,241 was about 1/3 of the average. The chum catch of 3,588 was far below the twenty-year average of 22,105.

The set net season started on a calendar opening, June 4. Two 48-hour periods per week were fished. Since 1971 seine openings have been regulated by field announcement after individual runs have been built up to allow escapement. The initial seine opening in 1973 was a 24-hour opening on July 13 in the outer portion of the district. On July 14 Port Graham bay was open to two 48-hour periods per week for seining. On July 19 the entire Southern district west of Glacier Spit was open for one 24-hour period for seines. On July 26 the entire Southern district was open for two 48-hour periods per week. A portion (east of Glacier Spit) was closed on August 6 and reopened on August 13.

The overall pink salmon escapement was fair with a total of 71.5 thousand fish for the four main study streams compared to a total 12-year total average escapement of 97.0 thousand. Humpy Creek had an escapement of 31.1 thousand; Tutka 6.5 thousand; Seldovia 14.5 thousand and Port Graham 7.0 thousand. (Appendix Table 15)

Kamishak District:

The total 1973 Kamishak district salmon catch of 48,181 approached the twenty-year average of 57,293. The catch by species since 1954 appears in Appendix Table 18.

The first opening in the Kamishak district was on July 19 and opened the area south of Tignagvik Point. On July 26 the area between Tignagvik Point and Ursus Head was opened and on August 7 all waters north of Ursus Head were open. All openings were for seven days a week fishing.

Escapement survey results are shown in Appendix Table 16.

Outer District:

The total salmon catch for the Outer district in 1972 was 278,695 fish, the eleventh greatest catch since 1954; a median catch which was approximately 70% of the average annual catch of 400,638 salmon for the 20 year period. The pink salmon catch of 197,239 was the tenth greatest and was 62% of the annual average of 314,142 pinks. The chum salmon catch of 76,341 approached the annual average of 81,433 fish. The red salmon catch of 5,064 was slightly above the average of 4,767 salmon.

The Outer district is regulated by field announcement. The entire Outer district except for Rocky Bay and the south side of Port Dick was open for one 24-hour period on July 13 and was opened for two 48-hour periods each week on July 16. On July 23 Port Chatham and Nuka Island were closed and the south side of Port Dick was opened. On July 30 the north side of Port Dick was closed. All waters in the outer west arm of Port Dick were open on August 13.

Eastern District:

The commercial salmon season was not opened in the Eastern district in 1973. However, 808 total fish were caught in the annual silver salmon derby and these are recorded as commercially caught salmon. Annual catches are shown on Appendix Table 20.

## HERRING

Ninety-nine percent of the Cook Inlet herring catch of 3,184,287 pounds was taken by purse seiners in the Southern, Kamishak, Outer and Eastern districts. The balance was taken by set gill net fishermen in the Central district. The catch was taken in May and June for roe. This catch was the second greatest for the past five years. (Appendix Table 21)

Biological data will be presented in a later data report.

## HALIBUT

The halibut fishery is regulated by the International Pacific Halibut Commission. Each halibut management area overlaps and includes several state management areas and catch records from discrete state management areas (Cook Inlet, Kodiak, etc.) are not available.

Halibut are caught in every district of Cook Inlet covered by this report. (Southern, Kamishak, Barren Islands, Outer and Eastern) Records of halibut landings delivered to Cook Inlet processors are maintained. The 1973 season opened on May 10 and closed on October 1 in area 3A with total deliveries of 4.2 million pounds of halibut.

## MISCELLANEOUS FINFISH

Various finfish species comprise a small but important part of Cook Inlet commercial fishing activity. These species will become more important as markets develop and demand increases. The primary producing areas at present are the Eastern and Outer districts and adjacent Gulf of Alaska waters.

In 1973, 23,168 pounds of cod (Gadus), 11,074 pounds of rockfish (Sebastodes), and 421 pounds of sculpin or bullheads (Cottidae) were

recorded as being landed. In addition 26,430 pounds of ling cod (Ophiodon) was recorded as being taken in pots and 24,303 pounds taken on long line gear.

## FINFISH SUBSISTENCE

The most popular finfishes for subsistence utilization are the salmon. An area wide permit is required with a 50 salmon limit for each permittee. Only Alaskan residents are allowed to subsistence fish for salmon. Each permittee is required to file a catch report after the season. In general, salmon may be taken for subsistence in conformance with open commercial fishing periods with equivalent gear to that used in the commercial fishery. Calendar date openings are also used for regulation of the subsistence salmon fishery. Records are kept area wide and total catches are given in the overall Cook Inlet report. Of the five districts covered by this report only the Southern and Eastern districts have bonifide subsistence fisheries for salmon. Subsistence catches by species for 1972 are given in Table 13.

Herring, smelt, halibut and incidental catches of miscellaneous finfish are also utilized for subsistence.

Table 13. 1973 Cook Inlet salmon subsistence catch.

| Location | Catch by Species | | | | | | | Total Permits Issued | Returned | Did Not Fish | Fished Caught None | Caught 50 or Less | Caught 50 or More |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kings | Reds | Cohos | Pinks | Chums | Other | Total | | | | | | |
| Fire Island | 0 | 2 | 54 | 0 | 20 | 0 | 76 | | 5 | 0 | 0 | 5 | 0 |
| Big Susitna | 0 | 22 | 50 | 3 | 17 | 0 | 92 | | 11 | 4 | 2 | 5 | 0 |
| Total Northern District | 0 | 24 | 104 | 3 | 37 | 0 | 168 | 19 | 17 | 4 | 2 | 10 | 0 |
| Salamatof Beach | 0 | 11 | 68 | 4 | 0 | 0 | 83 | | 36 | 24 | 9 | 8 | 0 |
| Ninilchik | 0 | 0 | 144 | 5 | 0 | 4 | 153 | | 27 | 10 | 0 | 17 | 0 |
| Kalifonski | 0 | 0 | 16 | 0 | 0 | 0 | 16 | | 10 | 5 | 0 | 5 | 0 |
| Total Central District | 0 | 11 | 228 | 9 | 0 | 4 | 252 | 104 | 73 | 49 | 9 | 30 | 0 |
| Mud Bay | 0 | 17 | 1164 | 52 | 37 | 8 | 1278 | | 101 | 35 | 5 | 60 | 4 |
| South Shore | 0 | 1 | 132 | 26 | 3 | 1 | 163 | | 19 | 8 | 3 | 9 | 0 |
| Anchor Point | 0 | 0 | 8 | 6 | 0 | 0 | 14 | | 6 | 3 | 3 | 0 | 0 |
| Total Southern District | 0 | 18 | 1304 | 84 | 40 | 9 | 1455 | 143 | 128 | 46 | 11 | 69 | 4 |
| TOTAL COOK INLET: | 0 | 53 | 1636 | 96 | 77 | 13 | 1875 | 266 | 221 | 99 | 22 | 109 | 4 |

## Appendix

Table 1. Shrimp landings in pounds, Cook Inlet, 1960-1973.

| Year | Trawl | Pot | Total |
|---|---|---|---|
| 1960 | | | 711,355 |
| 1961 | | | 1,045,170 |
| 1962 | | | 532,291 |
| 1963 | 1,897,580 | | 1,897,580 |
| 1964 | 599,665 | 1,746 | 601,411 |
| 1965 | 82,280 | | 82,280 |
| 1966 | 285,976 | 23,383 | 309,359 |
| 1967 | 741,438 | | 741,438 |
| 1968 | 25,681 | 1,067 | 26,748 |
| 1969 | 1,847,071 | 131 | 1,847,202 |
| 1970 | 5,808,160 | 9,473 | 5,817,633 |
| 1971 | 5,395,116 | 53,462 | 5,448,578 |
| 1972 | 5,377,181 | 171,386 | 5,548,567 |
| 1973 | 4,549,804 | 327,000 | 4,876,804 |

Appendix Table 2
Shrimp trawl landings in pounds, Cook Inlet, 1969-1973.

| Year | Catch* | Landings | Vessels |
|---|---|---|---|
| 1969 | 1,847,071 | 284 | 2 |
| 1970 | 5,808,160 | 523 | 3 |
| 1971 | 5,395,116 | 567 | 4 |
| 1972 | 5,377,181 | 450 | 9 |
| 1973 | 4,549,804 | 338 | 10 |

* Almost all from Kachemak Bay.

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Appendix Table 3. Mean monthly catch per unit of effort (CPUE), trawl shrimp, Kachemak Bay, July 1969-Sept. 1973.

| Month | Ave. Pounds Landed Per Hour Trawled |
|---|---|
| January | 3,619 |
| February | 3,105 |
| March | 5,376 |
| April | 2,557 |
| May | 2,454 |
| June | 2,178 |
| July | 2,254 |
| August | 2,950* |
| September | 3,954 |
| October | 2,663 |
| November | 2,820 |
| December | 2,136 |
| MEAN | 3,005 |

*preliminary

Appendix Table 4
Cook Inlet pot shrimp landings, in pounds, 1970-1973.

| Year | Pounds | Landings | Vessels |
|---|---|---|---|
| 1970 | 9,473 | 33 | 8 |
| 1971 | 53,462 | 187 | 11 |
| 1972 | 171,386 | 361 | 17 |
| 1973 | 327,000 | 761 | 41 |

Appendix Table 5. Cook Inlet king crab catch in pounds, by district, 1951-1973.

| Year | Southern | Kamishak | Barren Is.[1/] | Outer | Eastern | Total |
|---|---|---|---|---|---|---|
| 1951 | 6,619 | | | | | 6,619 |
| 1952 | 2,900 | | | | | 2,900 |
| 1953 | 1,359,854 | | | | | 1,359,854 |
| 1954 | 1,275,852 | | | | | 1,275,852 |
| 1955 | 1,915,821 | | | | | 1,915,821 |
| 1956 | 2,129,035 | | | | | 2,129,035 |
| 1957 | 620,858 | | | | | 620,858 |
| 1958 | 752,990 | | | | | 752,990 |
| 1959 | 2,191,437 | | | | | 2,191,437 |
| 1960 | 4,219,776 | | | 67,656 | | 4,287,432 |
| 1961 | 2,988,880 | 1,205,679 | | 61,837 | | 4,256,396 |
| 1962 | 1,968,980 | 4,305,444 | | 577,197 | | 6,851,621 |
| 1963 | 2,667,279 | 5,538,349 | | 175,535 | | 8,381,163 |
| 1964 | 1,760,660 | 4,967,824 | | 43,908 | | 6,772,392 |
| 1965 | 1,813,135 | 963,412 | | | | 2,776,547 |
| 1966 | 1,887,948 | 1,974,559 | | 37,656 | | 3,900,163 |
| 1967 | 1,286,789 | 1,821,269 | | 16,033 | 418 | 3,124,509 |
| 1968 | 1,004,683 | 2,965,658 | | 39,112 | | 4,009,453 |
| 1969 | 1,299,527 | 1,422,052 | | 130,928 | | 2,852,507 |
| 1970 | 1,495,759 | 2,237,259 | | 149,784 | | 3,882,802 |
| 1971 | 1,237,802 | 2,538,947 | | 380,890 | | 4,157,639 |
| 1972 | 1,900,005 | 2,445,825 | | 261,706 | 361 | 4,607,878 |
| 1973 | 2,091,000 | 1,918,920 | 375,203 | 3,738 | | 4,388,861 |

[1/] Barren Islands district established in Spring, 1973.

Appendix Table 6
Cook Inlet king crab landings
1960 - 1973

Southern

| Year | Landings | Crab[1/] | Crab Per Landing |
|---|---|---|---|
| 1960 | 2,434 | 455,000 | 187 |
| 1961 | 2,619 | 364,045 | 139 |
| 1962 | 1,843 | 296,123 | 160 |
| 1963 | 1,435 | 347,096 | 241 |
| 1964 | 1,019 | 229,165 | 225 |
| 1965 | 742 | 217,544 | 293 |
| 1966 | 681 | 226,557 | 332 |
| 1967 | 705 | 164,335 | 233 |
| 1968 | 659 | 128,720 | 195 |
| 1969 | 681 | 196,350 | 288 |
| 1970 | 700 | 206,471 | 295 |
| 1971 | 857 | 153,856 | 179 |
| 1972 | 1,011 | 238,092 | 236 |
| 1973 | 1,088 | 275,132 | 253 |

Kamishak

| | | | |
|---|---|---|---|
| 1960 | | -- NONE -- | |
| 1961 | 181 | 140,566 | 776 |
| 1962 | 372 | 473,601 | 1,273 |
| 1963 | 445 | 635,225 | 1,427 |
| 1964 | 401 | 589,796 | 1,470 |
| 1965 | 79 | 108,019 | 1,367 |
| 1966 | 121 | 225,537 | 1,863 |
| 1967 | 99 | 213,285 | 2,154 |
| 1968 | 177 | 331,439 | 1,873 |
| 1969 | 66 | 178,825 | 2,709 |
| 1970 | 106 | 276,807 | 2,611 |
| 1971 | 134 | 352,968 | 2,634 |
| 1972 | 119 | 325,265 | 2,733 |
| 1973 | 125 | 252,489 | 2,020 |

[1/] Calculated from fish ticket weights.

Appendix Table 7
Cook Inlet king crab catch and value of product,
1951 - 1973

| Year | Pounds crab | Boats | Value to Fishermen[1/] | 1st Wholesale Value[2/] |
|---|---|---|---|---|
| 1951 | 6,619 | | $ 7,000 | Not available |
| 1952 | 2,900 | | 3,000 | " |
| 1953 | 1,359,854 | 12 | 136,000 | " |
| 1954 | 1,275,852 | 7 | 127,000 | " |
| 1955 | 1,915,821 | 12 | 191,000 | " |
| 1956 | 2,129,035 | 12 | 213,000 | " |
| 1957 | 620,858 | 5 | 62,000 | " |
| 1958 | 752,990 | 5 | 75,000 | " |
| 1959 | 2,191,437 | 25 | 219,000 | " |
| 1960 | 4,287,432 | 60 | 422,000 | " |
| 1961 | 4,256,396 | 71 | 419,000 | $ 890,000 |
| 1962 | 6,851,621 | 70 | 685,000 | 1,550,000 |
| 1963 | 8,381,163 | 50 | 838,000 | 2,010,000 |
| 1964 | 6,772,392 | 46 | 677,000 | 1,770,000 |
| 1965 | 2,776,547 | 23 | 278,000 | 720,000 |
| 1966 | 3,900,163 | 33 | 390,000 | 1,340,000 |
| 1967 | 3,124,509 | 34 | 322,000 | 1,250,000 |
| 1968 | 4,008,933 | 44 | 1,000,000 | 2,930,000 |
| 1969 | 2,857,170 | 29 | 700,000 | 2,300,000 |
| 1970 | 3,882,802 | 41 | 1,000,000 | 3,250,000 |
| 1971 | 4,157,639 | 42 | 1,247,292 | Not available |
| 1972 | 4,607,878 | 43 | 1,600,000 | 3,900,000 |
| 1973 | 4,388,861 | 63 | 3,700,000 | 7,000,000 |

[1/] Values are estimates based on price per pound paid to fishermen, rounded to nearest thousand.

[2/] Based on annual reports from fish processors, rounded to nearest 10 thousand.

Appendix Table 8
Comparative measurements of king crab carapace lengths,
winter and summer crab, Cook Inlet

Winter Fishery

| Carapace Size Range | Kamishak 1963 | 1970 | 1971 | 1973 | Southern 1963 | 1970 | 1971 | 1972 | 1973 | 1974 |
|---|---|---|---|---|---|---|---|---|---|---|
| 140 to 159 mm | 14% | 20% | 18% | 34% | 21% | 33% | 20% | 11% | 31% | 35% |
| 160 to 179 mm | 62% | 54% | 60% | 50% | 52% | 56% | 68% | 69% | 52% | 55% |
| 180 to 200 mm+ | 23% | 27% | 22% | 16% | 27% | 11% | 12% | 20% | 17% | 10% |



Summer Fishery

| Carapace Size Range | Kamishak 1963 | 1970 | 1971 | 1972 | 1973 | Southern 1963 | 1970 | 1971 | 1972 | 1973 |
|---|---|---|---|---|---|---|---|---|---|---|
| 140 to 159 mm | 46% | 59% | 34% | 43% | 67% | 69% | 65% | 40% | 56% | 60% |
| 160 to 179 mm | 43% | 33% | 56% | 45% | 31% | 28% | 34% | 52% | 38% | 34% |
| 180 to 200 mm+ | 11% | 8% | 10% | 12% | 2% | 3% | 1% | 8% | 6% | 6% |

Appendix Table 9
Tanner crab landings, by month, in pounds, Cook Inlet, 1968 - 1973.

| Month | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 |
|---|---|---|---|---|---|---|
| January | ---- | 39,251 | 61,394 | 29,561 | 169,088 | 236,609 |
| February | 6,284 | 144,556 | 155,370 | 113,116 | 163,554 | 881,302 |
| March | 8,613 | 295,993 | 262,990 | 228,196 | 1,053,548 | 1,536,267 |
| April | 45,200 | 474,234 | 413,991 | 365,900 | 732,614 | 1,769,927 |
| May | 80,420 | 161,978 | 363,035 | 406,973 | 1,019,085 | 1,554,901 |
| June | 5,420 | 288,752 | 21,824 | 431,472 | 911,787 | 1,332,587 |
| July | ---- | 41,950 | ---- | 271,949 | 172,460 | --- |
| August | 340 | ---- | ---- | ---- | 1,688 | --- |
| September | 490 | ---- | ---- | 728 | 3,226 | --- |
| October | 1,570 | 10,308 | 1,304 | 930 | 25,852 | --- |
| November | 1,514 | ---- | 835 | 78,704 | 258,585 | 861,837 |
| December | 15,296 | 11,783 | 15,797 | 189,320 | 296,346 | 336,189 |
| YEAR TOTALS | 165,147 | 1,468,805 | 1,333,889 | 2,116,849 | 4,807,843 | 8,509,619 |
| No. Landings | 152 | 538 | 314 | 613 | 1,098 | 1,555 |
| No. Vessels | 25 | 24 | 25 | 40 | 43 | 80 |
| Average Wt. | 3.1 | 3.1 | 2.9 | 2.4 | 2.5 | 2.6 |

Appendix Table 10 Cook Inlet Dungeness crab catch - 1966-1973.

| Year | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1966 | -0- | -0- | -0- | -0- | 3,607 | 6,150 | -0- | 48,345 | 69,875 | -0- | -0- | -0- | 127,977 |
| 1967 | -0- | -0- | -0- | -0- | 1,776 | 1,471 | -0- | -0- | 90 | 3,831 | -0- | -0- | 7,168 |
| 1968 | -0- | -0- | -0- | -0- | 137 | -0- | 84,480 | 181,459 | 118,365 | 66,841 | 30,482 | -0- | 481,764 |
| 1969 | -0- | -0- | 335 | 786 | 1,608 | 3,987 | 13,898 | 14,876 | 13,011 | -0- | -0- | -0- | 48,501 |
| 1970 | -0- | -0- | 115 | -0- | -0- | 7,889 | 15,009 | 36,371 | 95,555 | 52,265 | 1,373 | -0- | 208,577 |
| 1971 | -0- | -0- | -0- | -0- | 1,745 | 11,271 | 21,818 | 17,049 | 20,287 | 15,951 | 7,221 | 1,504 | 96,846 |
| 1972 | 60 | 1,620 | 36 | -0- | -0- | 1,715 | 6,081 | 3,568 | 5,085 | 4,517 | 7,031 | 9,662 | 38,930 |
| 1973 | 3,727 | 703 | 158 | 4,032 | 12,383 | 12,742 | 7,861 | 8,224 | 36,069 | 147,502 | 68,243 | 8,404 | 310,048 |

## Appendix

Table 11 Cook Inlet dungeness crab catch, 196 -1973.

| Year | Crab | Pounds |
|---|---|---|
| 1961 | | 191,588 |
| 1962 | 204,573 | 460,725 |
| 1963 | | 1,677,204 |
| 1964 | 177,708 | 421,452 |
| 1965 | 32,378 | 82,280 |
| 1966 | 45,625 | 127,977 |
| 1967 | 2,141 | 7,168 |
| 1968 | | 481,764 |
| 1969 | | 48,501 |
| 1970 | 84,686 | 208,577 |
| 1971 | 35,387 | 96,846 |
| 1972 | | 38,930 |
| 1973 | 111,853 | 310,048 |

Appendix Table 12
Salmon catches by district; lower Cook Inlet-Resurrection Bay, 1954-1973

| Year | Species | District Southern | Kamishak | Outer | Eastern | Totals ($10^{-3}$) |
|---|---|---|---|---|---|---|
| 1954 | Kings | 1,532 | | 13 | | 1.6 |
| | Reds | 22,913 | | 4,927 | 11,786 | 39.6 |
| | Cohos | 12,235 | no fishery | 369 | 2,556 | 15.2 |
| | Pinks | 180,977 | | 82,205 | 7,562 | 270.7 |
| | Chums | 150,769 | | 112,877 | 1,945 | 265.6 |
| | TOTAL | 368,426 | 0 | 200,391 | 23,849 | 592.7 |
| 1955 | Kings | 562 | 0 | 7 | 4 | 0.6 |
| | Reds | 30,848 | 2 | 701 | 5,049 | 36.6 |
| | Cohos | 3,230 | 8 | 277 | 6,160 | 9.7 |
| | Pinks | 565,216 | 5,121 | 557,997 | 55,994 | 1,184.3 |
| | Chums | 24,398 | 278 | 40,887 | 3,147 | 68.7 |
| | TOTAL | 624,254 | 5,409 | 599,869 | 70,354 | 1,299.9 |
| 1956 | Kings | 310 | 0 | 23 | 0 | 0.3 |
| | Reds | 33,054 | 67 | 2,889 | 296 | 36.3 |
| | Cohos | 4,693, | 701 | 190 | 3,761 | 9.4 |
| | Pinks | 150,486 | 193 | 42,368 | 14,873 | 207.9 |
| | Chums | 53,515 | 14,936 | 19,248 | 519 | 88.2 |
| | TOTAL | 242,058 | 15,897 | 64,718 | 19,449 | 342.1 |
| 1957 | Kings | 286 | 0 | 13 | 120 | 0.4 |
| | Reds | 19,431 | 4,335 | 2,982 | 169 | 26.9 |
| | Cohos | 1,507 | 29 | 110 | 119 | 1.8 |
| | Pinks | 130,511 | 5,905 | 149,197 | 0 | 285.6 |
| | Chums | 57,403 | 10,856 | 138,171 | 20 | 206.5 |
| | TOTAL | 209,138 | 21,125 | 290,473 | 428 | 521.2 |

Appendix Table 12 continued:

| Year | Species | District Southern | Kamishak | Outer | Eastern | Totals ($10^{-3}$) |
|---|---|---|---|---|---|---|
| 1958 | Kings | 119 | | 1 | 0 | 0.1 |
| | Reds | 17,731 | | 1,719 | 0 | 19.4 |
| | Cohos | 1,713 | no fishery | 83 | 0 | 1.8 |
| | Pinks | 209,798 | | 739,768 | 200 | 949.8 |
| | Chums | 24,096 | | 100,386 | 0 | 124.5 |
| | TOTAL | 253,457 | 0 | 841,957 | 200 | 1,095.6 |
| 1959 | Kings | 74 | 0 | 3 | 58 | 0.1 |
| | Reds | 10,026 | 1,549 | 10,365 | 5,477 | 27.4 |
| | Cohos | 709 | 43 | 109 | 8,954 | 9.8 |
| | Pinks | 50,076 | 5,325 | 68,875 | 125 | 124.4 |
| | Chums | 15,278 | 25,759 | 65,675 | 14,612 | 121.3 |
| | TOTAL | 76,163 | 32,676 | 145,027 | 29,226 | 283.0 |
| 1960 | Kings | 12 | 11 | 4 | 0 | 0.0 |
| | Reds | 12,292 | 768 | 1,336 | 105 | 14.5 |
| | Cohos | 1,237 | 28 | 533 | 853 | 2.7 |
| | Pinks | 250,818 | 11,563 | 328,501 | 8,720 | 599.6 |
| | Chums | 4,100 | 44,328 | 67,187 | 467 | 116.1 |
| | TOTAL | 268,459 | 56,698 | 397,561 | 10,145 | 732.9 |
| 1961 | Kings | 39 | 0 | 2 | | 0.0 |
| | Reds | 10,180 | 1 | 12,595 | | 22.8 |
| | Cohos | 1,161 | 14 | 444 | no fishery | 1.6 |
| | Pinks | 191,911 | 6,019 | 105,447 | | 303.4 |
| | Chums | 2,924 | 12,465 | 40,204 | | 55.6 |
| | TOTAL | 206,215 | 18,499 | 158,692 | 0 | 383.4 |

Appendix Table 12 continued:

| Year | Species | District: Southern | Kamishak | Outer | Eastern | Totals ($10^{-3}$) |
|---|---|---|---|---|---|---|
| 1962 | Kings | 58 | 0 | 2 | 0 | 0.1 |
| | Reds | 16,569 | 20 | 8,697 | 0 | 25.3 |
| | Cohos | 2,095 | 11 | 1,893 | 3,728 | 7.7 |
| | Pinks | 564,050 | 219 | 1,684,023 | 49 | 2,248.3 |
| | Chums | 9,089 | 6,058 | 126,750 | 10 | 141.9 |
| | TOTAL | 591,861 | 6,308 | 1,821,365 | 3,787 | 2,423.3 |
| 1963 | Kings | 88 | 1 | 6 | 1 | 0.1 |
| | Reds | 13,142 | 4 | 1,974 | 1 | 15.1 |
| | Cohos | 4,020 | 97 | 369 | 2,250 | 6.8 |
| | Pinks | 99,829 | 82,314 | 21,462 | 11 | 203.6 |
| | Chums | 7,695 | 13,892 | 116,923 | 0 | 138.5 |
| | TOTAL | 124,774 | 96,308 | 140,734 | 2,263 | 364.1 |
| 1964 | Kings | 84 | 5 | 2 | 0 | 0.1 |
| | Reds | 17,283 | 1,979 | 1,370 | 22 | 20.7 |
| | Cohos | 8,905 | 115 | 431 | 22 | 9.5 |
| | Pinks | 266,489 | 20,719 | 767,396 | 813 | 1,055.4 |
| | Chums | 11,529 | 42,280 | 269,512 | 12 | 323.3 |
| | TOTAL | 304,290 | 65,098 | 1,038,711 | 869 | 1,409.0 |
| 1965 | Kings | 10 | 0 | 0 | | 0.0 |
| | Reds | 11,229 | 808 | 1,965 | | 14.0 |
| | Cohos | 733 | 4 | 7 | no fishery | 0.8 |
| | Pinks | 90,330 | 3,452 | 21,816 | | 115.6 |
| | Chums | 2,459 | 2,706 | 22,443 | | 27.6 |
| | TOTAL | 104,761 | 6,970 | 46,231 | 0 | 158.0 |

Appendix Table 12 continued:

| Year | Species | District: Southern | Kamishak | Outer | Eastern | Totals ($10^{-3}$) |
|---|---|---|---|---|---|---|
| 1966 | Kings | 60 | 0 | 1 | | 0.1 |
| | Reds | 12,192 | 21 | 2,710 | | 14.9 |
| | Cohos | 4,535 | 247 | 357 | no fishery | 5.1 |
| | Pinks | 177,544 | 2,945 | 398,751 | | 579.2 |
| | Chums | 28,754 | 12,688 | 87,620 | | 129.1 |
| | TOTAL | 223,085 | 15,901 | 489,439 | 0 | 728.4 |
| 1967 | Kings | 173 | 1 | 2 | 0 | 0.2 |
| | Reds | 26,350 | 182 | 2,165 | 348 | 29.1 |
| | Cohos | 2,393 | 74 | 56 | 203 | 2.7 |
| | Pinks | 95,100 | 17,340 | 259,951 | 3,097 | 375.5 |
| | Chums | 23,416 | 24,221 | 37,533 | 275 | 85.4 |
| | TOTAL | 147,432 | 41,818 | 299,707 | 3,923 | 492.9 |
| 1968 | Kings | 61 | 0 | 1 | 2 | 0.1 |
| | Reds | 18,716 | 492 | 1,550 | 74,484 | 95.3 |
| | Cohos | 4,671 | 101 | 106 | 5 | 4.9 |
| | Pinks | 154,033 | 198,253 | 191,691 | 41,464 | 585.4 |
| | Chums | 4,518 | 49,461 | 20,283 | 872 | 75.1 |
| | TOTAL | 181,999 | 248,307 | 213,631 | 116,827 | 760.8 |
| 1969 | Kings | 59 | 2 | 0 | 3 | 0.1 |
| | Reds | 12,578 | 10,723 | 92 | 99,403 | 122.8 |
| | Cohos | 485 | 121 | 11 | 6 | 0.6 |
| | Pinks | 70,753 | 80,157 | 51,533 | 1 | 202.4 |
| | Chums | 2,600 | 53,193 | 5,400 | 10 | 61.2 |
| | TOTAL | 86,475 | 144,196 | 57,036 | 99,423 | 387.1 |

Appendix Table 12 continued:

| Year | Species | District Southern | Kamishak | Outer | Eastern | Totals ($10^{-3}$) |
|---|---|---|---|---|---|---|
| 1970 | Kings | 91 | 0 | 5 | 11 | 0.1 |
| | Reds | 12,245 | 2,888 | 4,177 | 1,767 | 21.1 |
| | Cohos | 3,705 | 220 | 243 | 692 | 4.8 |
| | Pinks | 208,174 | 23,583 | 302,879 | 40,227 | 574.9 |
| | Chums | 8,174 | 95,857 | 118,746 | 633 | 223.4 |
| | TOTAL | 232,389 | 122,548 | 426,050 | 43,330 | 824.3 |
| 1971 | Kings | 41 | 0 | 11 | 21 | 0.1 |
| | Reds | 18,403 | 3 | 1,630 | 2,198 | 22.2 |
| | Cohos | 3,151 | 121 | 174 | 1,115 | 4.6 |
| | Pinks | 50,066 | 32,094 | 310,710 | 1 | 392.9 |
| | Chums | 2,857 | 26,327 | 118,995 | 423 | 148.6 |
| | TOTAL | 74,518 | 58,545 | 431,520 | 3,758 | 568.4 |
| 1972 | Kings | 69 | 0 | 7 | 12 | 0.1 |
| | Reds | 31,345 | 47 | 26,423 | 82 | 57.9 |
| | Cohos | 1,283 | 31 | 17 | 903 | 2.2 |
| | Pinks | 9,126 | 342 | 1,005 | 18,190 | 28.7 |
| | Chums | 4,936 | 26,374 | 43,490 | 743 | 75.5 |
| | TOTAL | 46,759 | 26,794 | 70,942 | 19,930 | 164.4 |
| 1973 | Kings | 139 | 0 | 1 | 5 | 0.2 |
| | Reds | 24,072 | 1 | 5,064 | 0 | 29.1 |
| | Cohos | 1,241 | 28 | 30 | 801 | 2.1 |
| | Pinks | 97,574 | 12,568 | 197,259 | 2 | 307.4 |
| | Chums | 3,588 | 35,584 | 76,341 | 0 | 155.5 |
| | TOTAL | 126,614 | 48,181 | 278,695 | 808 | 454.3 |

## Appendix

Table 13. Pink salmon catches by bay during even years, 1962 - 1972.[1/] (Catches in thousands of fish.)

| Catch location | 1962 | 1964 | 1966 | 1968 | 1970 | 1972 |
|---|---|---|---|---|---|---|
| Upper Kachemak | 110 | 83 | 42 | 46 | 114 | 3 |
| Tutka | 291 | 101 | 54 | 29 | 45 | 5 |
| Seldovia | 145 | 44 | 59 | 56 | 29 | 0.2 |
| Port Graham | 10 | 36 | 7 | 19 | 11 | 0.9 |
| Dogfish | 0.3 | 0.1 | 13 | 0.1 | 10 | 0.3 |
| Port Chatham | 102 | 67 | 7 | 10 | 2 | |
| Windy | 85 | 69 | 25 | 3 | 1 | |
| Rocky | 226 | 53 | | 11 | 37 | |
| Port Dick | 1,118 | 526 | 297[2/] | 55 | 192 | |
| Nuka | 130 | 24 | 113 | 90 | 48 | |
| Total | 2,217.3 | 1,003.1 | 617 | 319 | 489 | 9.4 |

1/ Source-IBM statistical runs.

2/ Includes 75,600 pinks which were caught and dumped due to lack of tender service and were not entered on fish tickets.

## Appendix

Table 14. Pink salmon catches by bay during odd years, 1961 - 1973.[1/] (catches in thousands of fish.)

| Catch location | 1961 | 1963 | 1965 | 1967 | 1969 | 1971 | 1973[2/] |
|---|---|---|---|---|---|---|---|
| Upper Kachemak | 68 | 58 | 14 | 40 | 1 | 11 | 43* |
| Tutka | 107 | 38 | 6 | 36 | 37 | 10 | 7* |
| Seldovia | 16 | 2 | 19 | 12 | 31 | 27 | 19* |
| Port Graham | 1 | 2 | 10 | 4 | 2 | 1 | 8* |
| Dogfish | -0.1 | -0.1 | -0.1 | 2 | 0 | 60 | 0.3 |
| Port Chatham | 0 | 1 | 0 | 0 | 0 | 26 | 22 |
| Windy | 2 | 0 | 5.4 | 0 | 0 | 57 | 68 |
| Rocky | 0 | 1.4 | 0.1 | 0 | 0 | 0.1 | 0.2 |
| Port Dick | 93 | 19 | 15 | 260 | 52 | 95 | 97 |
| Nuka | 2 | .2 | -0.1 | -0.1 | 0 | 120 | 8 |
| Total | 289 | 121.7 | 69.7 | 354.1 | 123 | 407.1 | 272.5 |

1/ Source-IBM statistical runs.
2/ Source-Homer office statistics. *Seine only. Set net these areas total 20,481.

**Appendix Table 15**
Cook Inlet Southern and Outer districts
estimated pink salmon escapements in thousands of fish.[2/]

| Stream | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 12 year Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Humpy | 56.0 | 34.7 | 18.5 | 28.0 | 30.0 | 25.0 | 24.7 | 5.4 | 55.2 | 45.0 | 13.8 | 36.9 | 31.3 |
| Tutka | 30.0 | 10.0 | 20.0 | 20.0 | 12.0 | 7.0 | 7.9 | 6.5 | 6.5 | 16.7 | 1.5 | 6.5 | 12.0 |
| Seldovia | 50.0 | 15.0 | 60.0 | 30.0 | 86.0 | 55.0 | 53.2 | 60.0 | 23.0 | 31.1 | 5.8 | 14.5 | 40.3 |
| Pt. Graham | 50.0 | 2.0 | 16.0 | 1.5 | 24.0 | 2.0 | 24.4 | 4.0 | 16.6 | 13.2 | 2.4 | 7.0 | 13.6 |
| Windy L. | 12.5 | 4.5 | 7.7 | 10.0 | 7.0 | 6.0 | 6.9 | 23.0 | 13.0 | 35.4 | .4 | 12.9 | 11.6 |
| Windy R. | 12.5 | 4.9 | 6.2 | 2.0 | 7.0 | 6.0 | 2.8 | 3.2 | 2.1 | 13.0 | .1 | 4.6 | 5.3 |
| Rocky | 200.0 | 12.0 | 80.0 | .3 | 44.0 | 1.0 | 43.1 | 1.0 | 32.0 | 1.6 | 8.1 | 2.0 | 32.5 |
| Pt. Dick | 40.0 | 16.0 | 31.5 | 50.0 | 35.0 | 20.0 | 29.0 | 12.0 | 34.5 | 97.8 | 10.0 | 26.4 | 33.6 |
| Island | 15.0 | 3.6 | 30.0 | .5 | 7.0 | .5 | 4.3 | .1 | 5.5 | .1 | 1.7 | .5 | 5.7 |
| TOTAL[3/] | 466 | 103 | 270 | 142 | 252 | 123 | 196 | 115 | 190 | 254 | 44 | 111 | 119 |

1/ Weir count.

2/ Escapement estimates were derived from peak counts or calculated from counts made throughout the spawning season. When series counts were available the total fish/days was divided by average stream life (2.5 weeks) to estimate total escapement.

3/ Rounded to nearest thousand.

Appendix Table 16.
Aerial stream surveys - North Head - Kamishak Bay District
1965 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/30/65 | --- | --- | 400 | Pinks | Clear | --- |
| | | | 125 | Chums | | |
| 8/7/65 | 1,500 | Pinks | 400 | Chums | --- | Lagoon |
| 8/ /66 | --- | --- | 4,500 | Pinks | --- | --- |
| 8/3/70 | --- | --- | 7,500 | Pinks | --- | Intertidal stream, 2 pools 300 above. |
| 7/15/71 | --- | --- | 0 | --- | Clear/calm | --- |
| 8/9/71 | --- | --- | 100 | Pinks | Clear/calm | --- |
| 8/16/71 | --- | --- | 5,000 | Pinks | --- | --- |
| 8/3/72 | --- | --- | 800 | Pinks | Overcast/calm | --- |
| 8/17/72 | --- | --- | 900 | Chums | Clear/windy | 700 above falls, 200 below. |
| 8/16/73 | --- | --- | 530 | Pinks | Clear/calm | 10 Reds |

Appendix Table 16 continued:

Aerial stream surveys - Cottonwood - Kamishak Bay District
1965 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/30/65 | --- | --- | 150 | Chums | --- | --- |
| 8/7/65 | --- | --- | 445 | Chums | --- | --- |
| 8/ /66 | Several Thousand | Chums | --- | --- | --- | --- |
| 8/25/66 | --- | --- | 11,500 | Pinks | Clear | Hi tide. |
| 7/25/68 | --- | --- | --- | --- | --- | Few chums moving in. |
| 8/2/68 | 5,000 | Chums | --- | --- | --- | --- |
| 8/11/69 | --- | --- | 1,000 | Pinks | --- | --- |
| 8/3/70 | --- | --- | 550 | Chums | --- | Head end stream. |
| 8/9/71 | --- | --- | 3 | Chums | Overcast/calm | --- |
| 8/16/71 | --- | --- | 2,000 | Chums | Overcast/calm | --- |
| 9/3/71 | --- | --- | 8,000 | Chums | Overcast/calm | Many dead salmon |
| 8/3/72 | --- | --- | 300 | Chums | Overcast/calm | --- |
| 8/7/72 | --- | --- | 1,200 | Chums | --- | --- |
| 8/17/72 | --- | --- | 3,100 | Chums | --- | --- |
| 7/17/73 | --- | --- | --- | --- | Overcast/calm | --- |
| 8/4/73 | --- | --- | 500 | Chums | overcast/wind | right stream |
| 8/6/73 | --- | --- | 1,000 | Chums | Overcast/calm | --- |
| 8/16/73 | --- | --- | 2,600 | Chums | Clear/calm | --- |

Appendix Table 16 continued:

Aerial stream surveys - Iniskin - Kamishak Bay District
1965 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/30/65 | --- | --- | 33 | Chums | Clear | --- |
| 8/7/65 | --- | --- | 670 | Chums | --- | --- |
| 7/28/66 | --- | --- | 20 | Pinks | Windy | 3/4 miles up Head End Stream |
| 8/25/66 | --- | --- | 25,000 | Pinks | Clear | --- |
| 7/25/68 | --- | --- | --- | --- | --- | Few chums moving in. |
| 8/2/68 | --- | --- | 5,000 | Chums | --- | Intertidal Area |
| 7/23/69 | 0 | --- | 0 | --- | --- | Visibility Good |
| 8/11/69 | --- | --- | 17,500 | Pinks | --- | Iniskin Left |
| 8/3/70 | --- | --- | 50 | Pinks | --- | Head Stream |
| | | | 350 | Pinks | | Iniskin Left |
| 7/15/71 | 0 | --- | 0 | --- | Clear/calm | 4 brown bear - 2 cubs |
| 8/9/71 | --- | --- | 50 | Pinks | Overcast/calm | Upstream |
| | | | 1,000 | Pinks | | Iniskin Left |
| 8/16/71 | --- | --- | 500 | Chums | Overcast/calm | Portage Creek |
| | | | 5,000 | Chums | | Iniskin Head |
| | | | 1,200 | Pinks | | Iniskin Right |
| 9/3/71 | --- | --- | 0 | --- | Overcast/calm | Portage Creek |
| | | | 10,000 | Chums | | Iniskin Head |
| | | | 500 | Pinks | | Iniskin Right |
| 8/3/72 | --- | --- | 100 | Chums | Overcast/calm | 50 sharks |
| 8/7/72 | --- | --- | 1,500 | Chums | --- | Iniskin Left |
| 8/17/72 | 50 | Pinks | 900 | Pinks | Clear/wind | Iniskin Left |
| | | | 3,000 | Chums | | |
| 8/24/72 | --- | --- | 7,800 | Chums | Overcast/calm | --- |

Appendix Table 16 continued:

Aerial stream surveys - Iniskin - Kamishak Bay District
1965 - 1973.

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 8/4/73 | --- | --- | 600 | Chums | overcast/calm | left |
| | | | 2,000 | Chums | overcast/calm | head |
| 8/6/73 | --- | --- | 100 | Chums | Overcast/calm | left |
| | | | 1,000 | Chums | overcast/calm | head |
| 8/16/73 | --- | --- | 120 | Chums | clear/calm | left |
| | | | 9,550 | Chums | clear/calm | head |
| 8/29/73 | --- | --- | 2,900 | Chums | clear/calm | head |

Appendix Table 16 continued:

Aerial stream surveys - Ursus - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/28/66 | 3,000 | Pinks | 10,800 | Pinks | Windy | At mouth along beach. |
| 8/ /66 | --- | --- | 5,000 | Pinks | --- | Right hand stream. |
| 7/16/68 | --- | --- | --- | --- | --- | Heavy concentration of pinks reported. |
| 7/14/70 | --- | --- | 1,500 | Pinks | --- | Counts are total for all streams within bay. |
| 8/3/70 | --- | --- | 5,200 | Pinks | --- | --- |
| 8/12/70 | --- | --- | 23,000 | Pinks | --- | --- |
| 7/15/71 | 500 | Pinks/Chums | 0 | --- | Clear/calm | --- |
| 7/28/71 | --- | --- | 1,300 | Pinks | --- | 6 boats. |
| 8/9/71 | --- | --- | 6,350 | Pinks | --- | 350 stream, 6,000 lagoon. |
| 8/9/71 | --- | --- | 1 | Pink | Clear/calm | --- |
| 8/3/72 | 1,200 | Chums | 5 | Chums | --- | Lagoon. |
| 8/17/72 | 3,500 | Chums | 1,200 | Chums | Clear/wind | Rt. stream off lagoon. |
| 8/24/72 | --- | --- | 350 | Chums | Overcast/wind | --- |
| 7/14/73 | --- | --- | --- | --- | Overcast/wind | --- |
| 8/6/73 | --- | --- | --- | --- | Overcast/calm | --- |
| 8/16/73 | 600 | Chums | 1,000 | Chums | Clear/calm | Left stream |
| | --- | --- | 60 | Chums | Clear/calm | Head stream |
| 8/29/73 | --- | --- | 2,950 | Chums | Clear/calm | All |

Appendix Table 16 continued:

Aerial stream surveys - Brown's Peak - Kamishak Bay District
1965 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 8/7/65 | 5 - 10,000 | Pinks | --- | --- | --- | --- |
| 7/24/66 | 0 | --- | 0 | --- | --- | --- |
| 8/ /66 | --- | --- | 11,000 | Pinks | --- | --- |
| 7/22/69 | --- | --- | 400 | Pinks | --- | --- |
| 8/11/69 | 800 | Dogs | 1,500 | Pinks | --- | --- |
| 7/15/71 | 500 | Pinks | --- | --- | Clear/calm | --- |
| 8/16/71 | --- | --- | 7,000 | Pinks | Overcast/calm | --- |
| 9/3/71 | --- | --- | 3,000 | Pinks | Overcast/calm | --- |
| 7/12/72 | 0 | --- | 0 | --- | Clear/calm | --- |
| 7/19/72 | 50 | Pinks | 200 | Pinks | --- | --- |
| 7/22/72 | 300 | Pinks | 300 | Pinks | --- | --- |
| 7/26/72 | 500 | Pinks | 400 | Pinks | Clear/calm | --- |
| 8/3/72 | 400 | Reds | 900 | Pinks/Chums | Overcast/calm | --- |
| 8/7/72 | 500 | Pinks/Chums | 600 | Chums | --- | --- |
| | | | 800 | Pinks | | |
| 8/24/72 | --- | --- | 130 | Pinks | Overcast/wind | --- |
| | | | 700 | Chums | | |
| 7/17/73 | --- | --- | 20 | Chums | Overcast/calm | --- |
| 8/6/73 | --- | --- | 3,200 | Pinks | Overcast/calm | --- |
| | | | 150 | Chums | | |
| | | | 20 | Reds | | |
| 8/16/73 | 4,500 | Pinks | 500 | Pinks | Clear/calm | most in intertidal hole |
| | | | 500 | Chums | | |

Appendix Table 16 continued:

Aerial stream surveys - Sunday - Kamishak Bay District
1965 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 8/7/65 | --- | --- | 1,800 | Chums | --- | --- |
| 7/24/66 | 1,500 | Pinks | 200 | Pinks | --- | --- |
| 8/ /66 | --- | --- | 20,000 | Pinks | --- | --- |
| 7/16/68 | --- | --- | --- | --- | --- | Heavy concentration of pinks reported. |
| 7/22/69 | 3,500 | Pinks | --- | --- | --- | In front of creek. |
| 8/11/69 | 3,500 | Pinks | 1,000 | Pinks | --- | On flat. |
| 7/14/70 | --- | --- | 40 | Pinks | --- | --- |
| 8/3/70 | --- | --- | 2,000 | Pinks | --- | --- |
| 7/15/71 | 1,100 | Pinks | --- | --- | Clear/calm | --- |
| | 100 | Chums | | | | |
| 7/28/71 | --- | --- | 300 | Pinks | Clear/calm | --- |
| 8/9/71 | --- | --- | 6,500 | Pinks | --- | 4,000 lower stream. |
| 8/16/71 | --- | --- | 15,000 | Pinks | Overcast/calm | --- |
| 9/3/71 | --- | --- | 35,000 | Pinks | Overcast/calm | --- |
| 7/22/72 | 250 | Chums/Pinks | --- | --- | Clear/calm | --- |
| 7/26/72 | 3,500 | Pinks | --- | --- | Clear/calm | --- |
| 8/3/72 | 2,000 | Chums | 700 | Pinks | Overcast/calm | --- |
| | | | 1,000 | Chums | | |
| 8/7/72 | 2,000 | Pinks/Chums | 2,000 | Pinks/Chums | --- | --- |
| 8/17/72 | 1,000 | Pinks/Chums | 200 | Pinks | Clear/wind | --- |
| | | | 1,600 | Chums | | |
| 8/24/72 | --- | --- | 1,750 | Pinks/chums | Overcast/wind | Poor visibility. |

Appendix Table 16 continued:

Aerial stream surveys - Sunday - Kamishak Bay District
1965 - 1973.

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/24/73 | 200 | Pinks | 200 | Pinks | Clear/calm | --- |
| 8/6/73 | 1,000 | Pinks | 2,500 | Pinks | Overcast/calm | --- |
| 8/16/73 | 1,000 | Pinks/Chums | 5,120 | Pinks | clear/calm | --- |
| | | | 500 | Chums | | |

Appendix Table 16 continued:

Aerial stream surveys - Bruin Bay - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/24/66 | 300 | Pinks | --- | --- | --- | Near head end. |
| 7/28/66 | 500 | Pinks | 14,000 | Pinks | Windy | Head end. |
| 8/ /66 | --- | --- | 15,000 | Pinks | --- | Head end. |
| 8/25/66 | --- | --- | 5,300 | Pinks | Clear | Head end. |
| 7/11/67 | --- | --- | 500 | Pinks | Calm | Scattered in stream. |
| 7/31/68 | --- | --- | --- | --- | --- | Reports of ex. escape. on pinks. |
| 7/22/69 | 300 | Pinks | --- | --- | --- | At Mouth. |
| 8/11/69 | --- | --- | 5,000 | Pinks | --- | --- |
| 7/14/70 | --- | --- | 300 | Pinks | --- | Counts total for all streams |
| 8/3/70 | --- | --- | 7,500 | Pinks | --- | --- within bay. |
| 8/12/70 | --- | --- | 40,000 | Pinks | --- | --- " |
| 7/7/71 | 0 | --- | 0 | --- | Clear/calm | Bruin Head |
| 7/15/71 | --- | --- | 20 | Reds | Clear/wind | 3 bears, 2 moose, Bruin Head. |
| 7/21/71 | --- | --- | --- | --- | Bad | --- |
| 7/28/71 | --- | --- | 1,500 | Pinks | --- | 4 bears, Bruin Head |
| 8/9/71 | --- | --- | 2,400 | Pinks | --- | Bruin Head |
| 8/16/71 | --- | --- | 4,000 | Pinks | Overcast/calm | Bruin Head |
| 8/16/71 | --- | --- | 2,000 | Pinks/Chums | --- | Bruin Right |
| 9/3/71 | --- | --- | 15,000 | Pinks | Overcast/calm | Bruin Head |
| 7/19/72 | --- | --- | 150 | Pinks | Overcast/calm | --- |
| 7/22/72 | --- | --- | 200 | Pinks | --- | --- |
| 7/26/72 | --- | --- | 2,350 | Pinks | Clear/wind | --- |
| 8/3/72 | --- | --- | 2,500 | Pinks/chums | Overcast/calm | --- |
| 8/17/72 | --- | --- | 200 | Chums | Clear/wind | --- |
| | | | 10 | Reds | | |
| | | | 700 | Chums | | Bruin Right Creek |

Appendix Table 16 continued:

Aerial stream surveys - Bruin Bay - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/14/73 | --- | --- | 1,400 | Chums | Overcast/wind | Bruin Head |
| 7/17/73 | --- | --- | 2,500 | Chums | Overcast/calm | Bruin Head |
| 7/24/73 | --- | --- | 1,000 | Chums | Clear/calm | Below falls - Bruin Head |
| 8/6/73 | --- | --- | 1,000 | Chums | Overcast/calm | Head |
| 8/16/73 | --- | --- | 5,150 | Chums | Clear/calm | all the way to forks |
| | | | 2,000 | Pinks | | |

Appendix Table 16 continued:

Aerial stream surveys - Amakdedori - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/8/66 | --- | --- | 300 | Reds | Clear | In pool, 100 yards upstream. |
| 7/28/66 | 310 | Pinks | 3,000 | Pinks | Windy | 1,100 reds in stream, North Beach |
| 8/25/66 | --- | --- | 5,200 | Pinks | Clear | |
| | | | 2,000 | Reds | | |
| 7/11/67 | 200 | Reds | --- | --- | Clear | --- |
| 7/22/69 | --- | --- | 1,000 | Reds | --- | Lower creek. |
| 8/11/69 | --- | --- | 1,500 | Reds | --- | 500 in upper creek, 1,000 below. |
| | | | 1,000 | Pinks | | In lower creek. |
| 6/24/70 | --- | --- | 100 | Reds | --- | --- |
| 7/14/70 | --- | --- | 250 | Reds | --- | --- |
| 8/3/70 | --- | --- | 2,500 | Pinks | --- | --- |
| 8/12/70 | --- | --- | 13,000 | Pinks | --- | --- |
| 7/7/71 | --- | --- | 30 | Reds | Clear/wind | --- |
| 7/15/71 | 300 | Reds | 1,200 | Reds | Clear/wind | --- |
| 7/28/71 | --- | --- | 1,000 | Reds | --- | --- |
| 6/26/72 | 0 | --- | 0 | --- | Overcast/wind | --- |
| 7/5/72 | --- | --- | 200 | Reds | Clear/calm | Lower river. |
| 7/19/72 | --- | --- | 1,000 | Reds | Overcast/calm | Lower river. |
| 7/26/72 | --- | --- | 200 | Pinks | Clear/wind | Lower river. |
| 8/3/72 | --- | --- | 900 | Pinks | Overcast/calm | --- |
| | | | 50 | Reds | Overcast/calm | --- |
| 6/21/73 | --- | --- | --- | --- | Clear/calm | Lake also surveyed. |
| 7/14/73 | --- | --- | --- | --- | Overcast/wind | --- |
| 7/17/73 | --- | --- | 600 | Reds | Overcast/calm | Beaver dam, Rt. fork, 1 mi. up |
| 7/24/73 | --- | --- | 2,220 | Reds | Overcast/calm | Reds above beaver dam |
| | | | 500 | Pinks | Clear/calm | Pinks near mouth |
| 8/6/73 | --- | --- | 1,500 | Pinks | Overcast/calm | --- |
| | | | 1,000 | Pinks | | |
| | | | 70 | Reds | | |
| 8/16/73 | --- | --- | 2,000 | Pinks | Clear/calm | --- |
| | | | 100 | Pinks | | |
| 8/[illegible]/73 | [illegible] | [illegible] | 45 | R[illegible] | [illegible]ar[illegible]n | [illegible]ks [illegible]ert[illegible] |

Appendix Table 16 continued:

Aerial stream surveys - Chenik - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/8/66 | 0 | --- | 0 | --- | Clear | --- |
| 7/24/66 | 200 | Reds | 0 | --- | --- | Off mouth from Amakdedori |
| | 2,800 | Pinks | | | | to Chenik |
| 8/25/66 | Too turbulent to survey. | | | | | |
| 7/4/67 | 2,500 | Reds | 0 | --- | Cloudy | 3 schools off mouth of river. |
| 7/11/67 | 400 | Reds | 0 | --- | --- | --- |
| 6/24/70 | 0 | --- | 0 | --- | --- | Hi tide. |
| 7/1/70 | 0 | --- | 0 | --- | Good visibility | Jumpers at mouth. |
| 7/7/71 | 0 | --- | 0 | --- | Clear/calm | Chenik Lake. |
| 7/7/71 | 2,000 | Reds | 0 | --- | Clear/wind | --- |
| 7/15/71 | 2,000 | Reds | 0 | --- | Clear/wind | --- |
| 7/28/71 | 0 | --- | 0 | --- | Clear/calm | --- |
| 6/26/72 | 0 | --- | 0 | --- | --- | --- |
| 7/5/72 | 300 | Reds | 0 | --- | Clear/calm | --- |
| 7/12/72 | 700 | Reds | 25 | Reds | Clear/calm | --- |
| 7/19/72 | 300 | Reds | 0 | --- | Overcast/calm | --- |
| 7/22/72 | 0 | --- | 0 | --- | --- | --- |
| 7/26/72 | 50 | Pinks or Reds | 300 | Reds | --- | --- |
| 8/3/72 | 0 | --- | 0 | --- | --- | --- |
| 6/21/73 | --- | --- | --- | --- | Clear/calm | Lake also surveyed |
| 7/17/73 | 300 | Reds | --- | --- | Overcast/calm | None observed in Lake |
| 7/24/73 | --- | --- | 50 | Reds | Clear/calm | at far end of lake |
| 8/29/73 | --- | --- | 45 | Reds | Clear/calm | more fish deep/not estimated |

Appendix Table 16 continued:

Aerial stream surveys - McNeil - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/8/66 | 50 | Chums | 1,000 | Chums | Clear | 5 schools below falls,more abv. |
| 7/28/66 | --- | --- | 50 | Chums | Windy | --- |
| 8/25/66 | --- | --- | 100 | Chums | Clear | --- |
| 7/4/67 | 0 | --- | 0 | --- | Cloudy | No fish seen |
| 7/11/67 | --- | --- | 2,000 | Chums | --- | Below falls. |
| 7/21/68 | 0 1/ | --- | 0 1/ | --- | --- | Game man reported excellent show of chums. |
| 7/22/69 | --- | --- | 300 | Chums | --- | Below falls. |
| 8/11/69 | --- | --- | 500 - 800 | Chums | Good | Just below falls. |
| 7/1/70 | 0 | --- | 0 | --- | --- | Beaver Nelson reported few chums moving in today. |
| 7/14/70 | --- | --- | 1,000 | Chums | --- | --- |
| 8/3/70 | --- | --- | 350 | Chums | --- | 17 bears at falls. |
| 7/7/71 | 8 | Chums | --- | --- | Clear/wind | --- |
| 7/15/71 | 1,000 | Chums | 300 | Chums | Clear/wind | --- |
| 7/28/71 | 3,000 | Chums | 1,500 | Chums | Clear/wind | --- |
| 6/26/72 | 30 | Kings | 10 | Kings | Clear/calm | --- |
| 7/12/72 | --- | --- | 320 | Chums | --- | --- |
| 7/19/72 | --- | --- | 1,000 | Chums | Overcast/calm | --- |
| 7/26/72 | 200 | Chums | 350 | Chums | Clear/wind | --- |
| 8/3/72 | --- | --- | 110 | Chums | --- | --- |
| 7/14/73 | --- | --- | 1,000 | Chums | Overcast/wind | bears fishing |
| 7/17/73 | --- | --- | 2,000 | Chums | Overcast/calm | --- |
| 7/24/73 | 5,000 | Chums | 10,000 | Chums | Clear/calm | best run in years, good visibili |
| 8/6/73 | 300 | Chums | 2,000 | Chums | Overcast/calm | 17 bears at falls |
| 8/16/73 | 1,500 | Chums | 1,900 | Chums | Clear/calm | Est. 50,000 chums escapement |

1/ Ground survey

Appendix Table 16 continued:

Aerial stream surveys - Mikfik - Kamishak Bay District
1970 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 6/18/70 | ---- | ---- | 200 | Reds | ---- | stream-ground survey |
| 6/20/70 | ---- | ---- | 700 | Reds | ---- | stream-ground survey |
| 6/24/70 | ---- | ---- | 300 | Reds | ---- | stream-ground survey |
| 7/1/70 | ---- | ---- | 350 | Reds | ---- | stream-ground survey |
| 7/14/70 | ---- | ---- | 30 | Reds | ---- | Aerial-game Bio. stationed at McNeil;estimated 1,000 escapement into Mikfik |
| 8/19/70 | ---- | ---- | 200 | Silvers | ---- | stream-ground survey |
| 6/21/71 | ---- | ---- | ---- | ---- | ---- | Reds showed up in lagoon for 1st time today |
| 6/30/71 | ---- | ---- | 600 | Reds | ---- | stream-ground survey |
| 7/7/71 | 1,500 (Lake) | Reds | 300 | Reds | clear/calm | Aerial survey |
| 7/15/71 | 5,000 (Lake) | Reds | ---- | ---- | clear/wind | Aerial survey |
| 6/26/72 | 2,000 (Lagoon + Bay) | Reds | 3,500 | Reds | overcast/wind | Aerial survey |
| 7/5/72 | 2,000 (Lagoon)<br>10,000 (Lake) | Reds<br>Reds | 5,000 | Reds | clear/calm | Aerial survey |
| 7/12/72 | 10,000 (Lake) | Reds | 100 | Reds | ---- | Aerial survey |
| 7/19/72 | ---- | ---- | 200 | Reds | overcast/calm | visibility poor in lake |
| 7/26/72 | 2,000 (Lake) | Reds | ---- | ---- | clear/calm | near Inlet stream |
| 6/21/73 | ---- | ---- | ---- | ---- | clear/calm | some bears + seals at mouth |
| 6/29/73 | ---- | ---- | ---- | ---- | overcast/wind | ---- |
| 7/17/73 | ---- | ---- | ---- | ---- | overcast/calm | ---- |
| 7/24/73 | ---- | ---- | 100 | Reds | clear/calm | at lake inlet |
| 8/16/73 | ---- | ---- | 2,700 | Reds | clear/calm | at lake inlet |
| 8/29/73 | ---- | ---- | 760 | Reds | clear/calm | at lake inlet |

Appendix Table 16 continued:

Aerial stream surveys - Big Kamishak - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/8/66 | 0 | --- | 0 | --- | Clear | Too silty. |
| 7/24/66 | --- | --- | 250 | Chums | --- | Right hand fork. |
| 7/28/66 | --- | --- | 8,000 | Pinks | Windy | --- |
| | | | 400 | Chums | | |
| 8/25/66 | --- | --- | 13,000 | Pinks | Clear | --- |
| | | | 5,000 | Chums | | |
| 7/22/69 | 0 | --- | 0 | --- | Good Visibility | --- |
| 6/24/70 | 0 | --- | 0 | --- | Good Visibility | --- |
| 7/1/70 | 0 | --- | 0 | --- | --- | --- |
| 7/7/71 | 0 | --- | 0 | --- | Clear/calm | --- |
| 8/16/74 | 0 | --- | 11,000 | Pinks | Clear/calm | --- |
| | | | 2,000 | Chums | | |

Appendix Table 16 continued:

Aerial stream surveys - Little Kamishak - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/8/66 | 0 | --- | 0 | --- | Clear | No fish seen. |
| 7/28/66 | --- | --- | 28,000 | Pinks | --- | Strike & Little |
| | 300 | Pinks | 300 | Chums | | Kamishak |
| 8/25/66 | --- | --- | 25,000 | Pinks | Clear | --- |
| 7/4/67 | 0 | --- | 0 | --- | Cloudy | No fish seen. |
| 7/11/67 | --- | --- | 3,500 | Pinks | Ceiling & Vis. Ex. | In Little Kamishak |
| 6/24/70 | 0 | --- | 0 | --- | --- | --- |
| 7/1/70 | 0 | --- | 0 | --- | --- | --- |
| 7/14/70 | 0 | --- | 0 | --- | --- | --- |
| 8/3/70 | --- | --- | 2,000 | Pinks | --- | Lower stream. |
| 7/7/71 | 0 | --- | 0 | --- | Clear/calm | 8 brown bear |
| 7/5/72 | 0 | --- | 0 | --- | Clear/calm | --- |
| 8/16/73 | 0 | --- | 900 | Chums | Clear/calm | minimum count |
| | | | 12,800 | Pinks | | |

Appendix Table 16 continued:

Aerial stream surveys - Strike Creek - Kamishak Bay District
1966 - 1973

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 7/8/66 | 0 | --- | 0 | --- | Clear | --- |
| 7/28/66 | 0 | --- | 28,000 | Pinks | --- | Strike and Little Kamishak |
| | | | 300 | Chums | | |
| 8/25/66 | 0 | --- | 2,200 | Pinks | Clear | --- |
| 7/22/69 | 0 | --- | 0 | --- | Good Visibility | Water clear. No fish seen. |
| 8/11/69 | 0 | --- | 500 | Pinks | Visibility Good | Spread out. |
| 6/24/70 | 0 | --- | 0 | --- | --- | --- |
| 7/1/70 | 0 | --- | 0 | --- | --- | --- |
| 7/14/70 | 0 | --- | 0 | --- | --- | --- |
| 8/3/70 | 0 | --- | 0 | --- | --- | Pinks below jet in little Kam. |
| 7/7/71 | 0 | --- | 0 | --- | --- | --- |
| 7/5/72 | 0 | --- | 0 | --- | Clear/calm | --- |
| 8/16/73 | 0 | --- | 2,800 | Pinks | Clear/calm | --- |

Appendix Table 16 continued:

Aerial stream surveys - Douglas River - Kamishak Bay District

| DATE | NO. FISH BAYS | SPECIES | NO. FISH STREAMS | SPECIES | WEATHER | REMARKS |
|---|---|---|---|---|---|---|
| 8/16/73 | --- | --- | 700 | Pinks | clear/calm | 1/5 of stream surveyed |
| | | | 500 | Chums | | unusual clear water |
| | | | 20 | Reds | | |

Appendix Table 17
Salmon catch, by species, Southern district, 1954-1973.

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954 | 1,522 | 22,913 | 12,235 | 180,977 | 150,769 | 368,426 |
| 1955 | 562 | 30,848 | 3,230 | 565,216 | 24,398 | 624,254 |
| 1956 | 310 | 33,054 | 4,693 | 150,486 | 53,515 | 242,058 |
| 1957 | 286 | 19,431 | 1,507 | 130,511 | 57,403 | 209,138 |
| 1958 | 119 | 17,731 | 1,713 | 209,798 | 24,096 | 253,457 |
| 1959 | 74 | 10,026 | 709 | 50,076 | 15,278 | 76,163 |
| 1960 | 12 | 12,292 | 1,237 | 250,818 | 4,100 | 268,459 |
| 1961 | 39 | 10,180 | 1,161 | 191,911 | 2,924 | 206,215 |
| 1962 | 58 | 16,569 | 2,095 | 564,050 | 9,089 | 591,861 |
| 1963 | 88 | 13,142 | 4,020 | 99,829 | 7,695 | 124,774 |
| 1964 | 84 | 17,283 | 8,905 | 266,489 | 11,529 | 304,290 |
| 1965 | 10 | 11,229 | 733 | 90,330 | 2,459 | 104,761 |
| 1966 | 60 | 12,192 | 4,535 | 177,544 | 28,754 | 223,085 |
| 1967 | 173 | 26,350 | 2,393 | 95,100 | 23,416 | 147,432 |
| 1968 | 61 | 18,716 | 4,671 | 154,033 | 4,518 | 181,999 |
| 1969 | 59 | 12,578 | 485 | 70,753 | 2,600 | 86,475 |
| 1970 | 91 | 12,245 | 3,705 | 208,174 | 8,174 | 232,389 |
| 1971 | 41 | 18,403 | 3,151 | 50,066 | 2,857 | 74,518 |
| 1972 | 69 | 31,345 | 1,283 | 9,126 | 4,936 | 46,759 |
| 1973 | 139 | 24,072 | 1,241 | 97,574 | 3,588 | 126,614 |
| Total | 3,867 | 370,599 | 63,702 | 3,612,861 | 442,098 | 4,493,127 |
| 20 year average | 193 | 18,530 | 3,185 | 180,643 | 22,105 | 224,656 |
| Per cent | .1 | 8.2 | 1.4 | 80.4 | 9.9 | 100 |

Appendix Table 18.
Salmon catch, by species, Kamishak district, 1954-1973

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954 | | | --No fishery-- | | | |
| 1955 | | 2 | 8 | 5,121 | 278 | 5,409 |
| 1956 | | 67 | 701 | 193 | 14,936 | 15,897 |
| 1957 | | 4,335 | 29 | 5,905 | 10,856 | 21,125 |
| 1958 | | | --No fishery-- | | | |
| 1959 | | 1,549 | 43 | 5,325 | 25,759 | 32,676 |
| 1960 | 11 | 768 | 28 | 11,563 | 44,328 | 56,698 |
| 1961 | | 1 | 14 | 6,019 | 12,465 | 18,499 |
| 1962 | | 20 | 11 | 219 | 6,058 | 6,308 |
| 1963 | I | 4 | 97 | 82,314 | 13,892 | 96,308 |
| 1964 | 5 | 1,979 | 115 | 21,719 | 42,280 | 65,098 |
| 1965 | | 808 | 4 | 3,452 | 2,706 | 6,970 |
| 1966 | | 21 | 247 | 2,945 | 12,688 | 15,901 |
| 1967 | 1 | 182 | 74 | 17,340 | 24,221 | 41,818 |
| 1968 | | 492 | 101 | 198,253 | 49,461 | 248,307 |
| 1969 | 2 | 10,723 | 121 | 80,157 | 53,193 | 144,196 |
| 1970 | | 2,888 | 220 | 23,583 | 95,857 | 122,548 |
| 1971 | | 3 | 121 | 32,094 | 26,327 | 58,545 |
| 1972 | | 47 | 31 | 342 | 26,374 | 26,794 |
| 1973 | | 1 | 28 | 12,568 | 35,584 | 48,181 |
| Total | 20 | 23,890 | 1,993 | 508,112 | 497,263 | 1,031,278 |
| 18 year average | 1.00 | 1,327 | 111 | 28,228 | 27,626 | 57,293 |
| Percent | .01 | 2.32 | .19 | 49.27 | 48.22 | 100 |

Appendix Table 19.
Salmon catch, by species, Outer district, 1954-1973.

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954 | 13 | 4,927 | 369 | 82,205 | 112,877 | 200,391 |
| 1955 | 7 | 701 | 277 | 557,997 | 40,887 | 599,869 |
| 1956 | 23 | 2,889 | 190 | 42,368 | 19,248 | 64,718 |
| 1957 | 13 | 2,982 | 110 | 149,197 | 138,171 | 290,473 |
| 1958 | 1 | 1,719 | 83 | 739,768 | 100,386 | 481,957 |
| 1959 | 3 | 10,365 | 109 | 68,875 | 65,675 | 145,027 |
| 1960 | 4 | 1,336 | 533 | 328,501 | 67,187 | 397,561 |
| 1961 | 2 | 12,595 | 444 | 105,447 | 40,204 | 158,692 |
| 1962 | 2 | 8,697 | 1,893 | 1,684,023 | 126,750 | 1,821,365 |
| 1963 | 6 | 1,974 | 369 | 21,462 | 116,923 | 140,734 |
| 1964 | 2 | 1,370 | 431 | 767,396 | 269,512 | 1,038,711 |
| 1965 | 0 | 1,965 | 7 | 21,816 | 46,231 | |
| 1966 | 1 | 2,710 | 357 | 398,751 | 87,620 | 489,439 |
| 1967 | 2 | 2,165 | 56 | 259,951 | 37,533 | 299,707 |
| 1968 | 1 | 1,550 | 106 | 191,691 | 20,283 | 213,631 |
| 1969 | 0 | 92 | 11 | 51,533 | 5,400 | 57,036 |
| 1970 | 5 | 4,177 | 243 | 302,879 | 118,746 | 426,050 |
| 1971 | 11 | 1,630 | 174 | 310,710 | 118,995 | 431,520 |
| 1972 | 7 | 26,423 | 17 | 1,005 | 43,490 | 70,942 |
| 1973 | 1 | 5,064 | 30 | 197,259 | 76,341 | 278,695 |
| TOTAL: | 104 | 95,331 | 5,809 | 6,282,671 | 1,628,671 | 8,012,749 |
| 20 year average: | 5 | 4,767 | 290 | 314,142 | 81,434 | 400,638 |
| Percent: | -- | 1.19 | .07 | 78.41 | 20.33 | 100 |

Appendix

Table 20. Salmon catch by species, Eastern district, 1954 - 1973.

| Year | Kings | Sockeyes | Cohos | Pinks | Chums | Total |
|---|---|---|---|---|---|---|
| 1954 | 0 | 11,786 | 2,556 | 7,562 | 1,945 | 23,849 |
| 1955 | 4 | 5,049 | 6,160 | 55,994 | 3,147 | 70,354 |
| 1956 | 0 | 296 | 3,761 | 14,873 | 519 | 19,449 |
| 1957 | 120 | 169 | 119 | 0 | 20 | 428 |
| 1958 | 0 | 0 | 0 | 200 | 0 | 200 |
| 1959 | 58 | 5,477 | 8,954 | 125 | 14,612 | 29,226 |
| 1960 | 0 | 105 | 853 | 8,720 | 467 | 10,145 |
| 1961 | | | No Fishery | | | |
| 1962 | 0 | 0 | 3,728 | 49 | 10 | 3,787 |
| 1963 | 1 | 1 | 2,250 | 11 | 0 | 2,263 |
| 1964 | 0 | 22 | 22 | 813 | 12 | 869 |
| 1965 | | | No Fishery | | | |
| 1966 | | | No Fishery | | | |
| 1967 | 0 | 348 | 203 | 3,097 | 275 | 3,923 |
| 1968 | 2 | 74,484 | 5 | 41,464 | 872 | 116,827 |
| 1969 | 3 | 99,403 | 6 | 1 | 10 | 99,423 |
| 1970 | 11 | 1,767 | 692 | 40,227 | 633 | 43,330 |
| 1971 | 21 | 2,198 | 1,115 | 1 | 423 | 3,758 |
| 1972 | 12 | 82 | 903 | 18,190 | 743 | 19,930 |
| 1973[1/] | 5 | | 801 | 2 | | 808 |
| Total | 232 | 201,187 | 31,327 | 191,327 | 23,688 | 447,761 |
| 16 year average | 14 | 12,574 | 1,958 | 11,958 | 1,481 | 27,985 |
| Percent | .1 | 44.9 | 7.0 | 42.7 | 5.0 | 100 |

[1/] Salmon derby caught fish, not entered in total figures.

Appendix Table 21
Cook Inlet herring catches, by district,
in pounds, 1969 - 1973

| Year | District | Pounds | Landings | Vessels |
|---|---|---|---|---|
| 1969 | Southern | 1,103,041 | 41 | 5 |
| | Outer | 76,000 | 1 | 1 |
| | Eastern | 1,515,920 | 32 | 7 |
| Total: | | 2,694,961 | 74 | 12 |
| 1970 | Southern | 5,417,385 | 104 | 11 |
| | Eastern | 4,200,550 | 81 | 11 |
| Total: | | 9,617,935 | 185 | 22 |
| 1971 | Southern | 25,050 | 4 | 2 |
| | Eastern | 1,948,023 | 129 | 19 |
| Total: | | 1,973,073 | 130 | 21 |
| 1972 | Southern | 2,046 | 1 | 1 |
| | Eastern | 190,068 | 14 | 6 |
| Total: | | 192,114 | 15 | 7 |
| 1973 | Southern | 407,533 | 20 | 12 |
| | Kamishak | 486,395 | 33 | 8 |
| | Outer | 710,988 | 21 | 7 |
| | Eastern | 1,551,667 | 51 | 21 |
| | Central | 27,704 | 7 | 7 (set net) |
| Total: | | 3,184,287 | 132 | 28 (vessels)<br>7 (set net) |

Appendix Table 22

Cook Inlet Subsistence salmon fishery
Permits Issued and Total Salmon Catch By District, 1967 - 1973

| | Northern 1/ | | Central | | Southern | | Eastern | |
|---|---|---|---|---|---|---|---|---|
| Year | Permits | Total Catch | Permits | Total Catch | Permits | Total Catch | Permits | Total Catch |
| 1967 | 218 | 2,947 | 13 | 119 | 51 | 942 | 91 | 262 |
| 1968 | 276 | 5,395 | 30 | 303 | 79 | 953 | -- | --- |
| 1969 | 290 | 1,563 | 40 | 400 | 85 | 1,067 | 32 | 929 |
| 1970 | 290 | 3,448 | 45 | 206 | 78 | 1,386 | 36 | 181 |
| 1971 | 9 | 10 | 28 | 138 | 112 | 1,618 | 19 | 7 |
| 1972 | 9 | 52 | 5 | 49 | 170 | 1,123 | 5 | 14 |
| 1973 | 19 | 168 | 104 | 252 | 143 | 1,875 | | 0 |

1/ Northern district represents Northwest shore at Knik Arm