ALASKA DEPARTMENT OF FISH AND GAME COMMERCIAL FISHERIES MANAGEMENT AND DEVELOPMENT DIVISION

UPPER COOK INLET COMMERCIAL FISHERIES ANNUAL MANAGEMENT REPORT, 1992

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INTRODUCTION

The Upper Cook Inlet management area consists of that portion of Cook Inlet north of the latitude of Anchor Point and is divided into the Central and Northern Districts (Figure 1). The Central District is approximately 75 mi long, averages 32 mi in width, and is further subdivided into six subdistricts. The Northern District is 50 mi long, averages 20 mi in width and is divided into two subdistricts. At present, all five species of Pacific salmon (Oncorhyncus), razor clams (Siliqua patula), and Pacific herring (Clupea harengus pallasi) are subject to commercial harvest in Upper Cook Inlet. Harvest statistics are gathered and reported by five-digit statistical areas and sub-areas (Figure 2).

Salmon

Since the inception of a commercial fishery in 1882, many gear types, including fish traps, gillnets, and seines have been employed with varying degrees of success to harvest salmon in Upper Cook Inlet. Currently, set (fixed) gillnets are the only gear permitted in the Northern District, while both set and drift gillnets are used in the Central District. The use of seine gear is restricted to the Chinitna Bay Subdistrict where they are employed only sporadically. Drift gillnets have accounted for 60% of the average annual salmon harvest since 1966 with set gillnets harvesting virtually all of the remainder (Appendix A.1-6).

Commercial salmon harvest statistics specific to gear type and area are available only back to 1954 (Appendix A.7). Run-timing and migration routes utilized by all species overlap to such a degree that the commercial fishery is largely mixed-stock and mixed-species in nature. Typically, the Upper Cook Inlet harvest represents approximately 5% of the statewide catch.

In terms of their economic value, sockeye salmon (0. nerka) are by far the most important component of the catch followed by coho (0. kisutch), chum (0. keta), pink (0. gorbuscha) and chinook salmon (0. tshawytscha) (Appendix A.8).

Herring

Commercial herring fishing began in Upper Cook Inlet in 1973 with a modest harvest of bait-quality fish along the east side of the Central District and expanded in the late 1970's to include small-scale sac roe fisheries in Chinitna and Tuxedni Bays (Appendix A.9). The total herring harvest has averaged less than 400 tons having an exvessel value below \$200,000, one of the smallest herring fisheries in the state. Presently, Upper Cook Inlet herring stocks are generally depressed and harvest levels have declined substantially.

Because the glacial waters of Upper Cook Inlet preclude the use of aerial surveys to estimate biomass of herring stocks, the management approach utilized has necessarily departed from the standard techniques employed in the more traditional herring fisheries. Present management policy allows for modest changes in harvest levels on a yearly basis, monitoring catches for shifts in age composition, and establishing harvest levels that appear to be sustainable. Gillnets are the only legal gear for herring in Upper Cook Inlet with set gillnets being used almost exclusively. Harvests are generally concentrated in the Clam Gulch area (bait herring) and in the Snug Harbor and Magnetic Island areas of Tuxedni Bay and near Clam Cove and Camp Point in Chinitna Bay (roe herring).

Razor Clams

The commercial harvest of razor clams from Upper Cook Inlet beaches dates back to 1919. Harvest levels have fluctuated from no fishery for as many as eight consecutive years to production in excess of half a million pounds (live weight) in 1922 (Appendix A.10). The sporadic nature of the fishery has been more a function of limited market opportunities rather than limited availability of the resource.

Razor clams are present in many areas of Cook Inlet with particularly dense concentrations occurring near Polly Creek on the western shore and from Clam Gulch to Ninilchik on the eastern shore. The eastern shoreline has been set aside for sport harvest exclusively since 1959 and all commercial harvests since that time have come from the west shore, principally from the Polly Creek area. A large portion of the Polly Creek beach is approved for the harvest of clams for the human food market. Bait clams may be taken only outside of this approved area. No overall harvest limits are in place for any area. Virtually all of the commercial harvest has come by hand-digging although regulations prior to 1990 allowed the use of mechanical harvesters (dredges) south of Spring Point or within a one mile section of the Polly Creek beach. Numerous attempts to develop feasible dredging operations were largely unsuccessful due to excessive shell breakage or the limited availability of clams in the area open to this gear.

1992 COMMERCIAL SALMON FISHERY

The 1992 commercial harvest of 10.56 million salmon in Upper Cook Inlet is the highest catch on record, edging out the previous record of 10.45 million set in 1987. The harvest was valued at approximately \$100 million, the third highest value on record and nearly an seven-fold increase over the previous season.

Throughout the 1992 season, emergency order announcements and fishery updates were provided to radio stations in Homer and the Kenai-Soldotna area and were provided to processors, fishermen's organizations and other agencies via electronic facsimile. Emergency orders and daily escapement information were also made available through 24-hour recorded message telephone lines.

Since Cook Inlet had not been on the previous year's Board of Fisheries agenda, no new regulatory changes took effect in 1992.

Sockeye Salmon

The 1992 sockeye salmon harvest of 9.1 million was the second highest harvest on record, exceeded only by the 1987 harvest of 9.5 million and was more than four times the average annual catch. Valued at \$96 million, the sockeye salmon harvest comprised 96% of the value of the total commercial salmon fishery. The distribution of the catch between drift gear (67%) and setnet gear (33%) differed slightly from the long-term average (60% drift).

Management of the Upper Cook Inlet sockeye salmon fishery integrates information received from a variety of programs which together provide an in-season model of the actual return. These programs include offshore test fishing, escapement enumeration by sonar and weir, comparative analysis of historic commercial harvest and effort levels, and age composition studies.

The offshore test fishing program employs a chartered gillnet vessel fishing standardized stations along a transect crossing Cook Inlet from Anchor Point to the Red River delta. The program provides an in-season estimation of sockeye salmon run-strength by determining fish passage rates (computed by correlating the vessel's daily catch with subsequent commercial harvests and escapement) and fitting these rates to the appropriate historic run-timing profile (Table 1). In 1992, the program was conducted aboard the F/V Corrina Kay.

Hydroacoustic devices to quantify salmon escapement into glacial rivers were first employed in Upper Cook Inlet in the Kenai and Kasilof Rivers in 1968 and expanded to the Susitna River in 1978 and the Crescent River in 1979 (Appendix A.11). Operations followed standard procedures in all systems in 1992 and no unusual problems were observed (Table 2). As in the past seven years, the Susitna River escapement was monitored by sonar in only the Yentna River tributary due to technical problems with obtaining satisfactory estimates within the mainstem of the Susitna. The Yentna River escapement goal of 100,000 to 150,000 sockeye salmon was established based on the historical proportion of the

total Susitna River escapement utilizing this tributary. Weirs placed on Fish Creek and Packers Creek provided daily escapement counts for those systems.

Upper Cook Inlet commercial catch statistics refined to gear type, area and date are available back to 1966. Availability of these statistics in a computerized database format make them extremely valuable for evaluating in-season fishery performance. The 1992 commercial catch by gear type, area and date can be found in Tables 3 through 7. Total harvest by statistical area and average catch per permit are contained in Tables 8 and 9. A summary of emergency orders can be found in Table 10 and a summary of fishing periods by gear type and area in Table 11.

Inseason determination of the age composition of sockeye salmon entering the principle rivers frequently provides information helpful in estimating the stock contributions in various fisheries. During the 1992 fishery approximately 20,000 sockeye salmon were examined from catch and escapement samples.

The 1992 season began with the May 25 opening of the sockeye salmon fishery near Big River in the Kustatan Subdistrict. A management plan adopted by the Board of Fisheries first opened this fishery in 1989. Difficulties in enforcing closed waters areas during 1989 resulted in a new definition of these areas by emergency order beginning with the 1990 season and also reduced fishing time from three weekly periods to two to compensate for the expected increased effectiveness of the fishery. Following the period on June 8, the 1,000 chinook salmon quota was estimated to be attained and the fishery was closed by emergency order for the remainder of the season. The sockeye salmon harvest of 3,674 fish is the lowest harvest recorded in this fishery and continues a history of catches well below the level anticipated when this fishery was created.

The sockeye salmon return to the Crescent River on the west side of the Central District is sufficiently segregated from the other July sockeye salmon runs to allow management measures to be taken solely within the Western Subdistrict set gillnet fishery. The 1992 return was somewhat improved over the very poor returns of the past few years and no closures of the fishery were required. The Western Subdistrict catch of 23,159 sockeye salmon was a slight improvement over the previous year, although only about half of the long-term average. The Crescent River escapement of 58,000 was within the desired escapement range of 50,000 - 100,000.

The remaining principle stocks of sockeye salmon (Kenai, Kasilof and Susitna Rivers) were expected to provide the bulk of the forecast harvest of 3.6 million fish. Fishermen were informed prior to the season that returns to the Susitna River were expected to be comparatively weak and that unless early season catches indicated otherwise, a regular period scheduled for within the July 10-15 time

frame would likely be closed to drift gillnetting in the offshore areas of the Central District. This time frame was chosen because historically it has produced the highest single-period exploitation rate on Susitna-bound fish.

The drift fishing season began on the regulatory opening date of June 26 with sockeye salmon catches through early July being unremarkable. Initial escapement rates in the Kasilof River were sufficiently high to trigger an opening of the southern Upper Subdistrict setnets three days prior to the scheduled July 3 opening date. The drift harvest on July 6 of over 300,000 sockeye was far above average for the date and significantly changed the outlook for the strength of the return. The age and size of the fish indicated that the dramatic increase in abundance was largely due to incoming Kenai River stocks. The July 10 fishing period produced an even stronger drift harvest of over 500,000 fish, again consisting mainly of Kenai River stocks. Coupled with the offshore test fish indices, these catches indicated the return was far stronger than forecast.

Sequential escapements well in excess of the maximum goal during the period from 1987-1989 strongly correlated with a precipitous decline in juvenile fish production from the Kenai River and at this point in the season it was evident that a fairly aggressive fishing posture would be necessary to hold the Kenai River escapement to reasonable levels. Concurrently, it would be necessary to structure the fishery in such a way as to minimize the impact of an aggressive fishing pattern on stocks bound for the Susitna River in an effort to achieve the best possible escapement for that system. The fishing period on July 13 was allowed to go forward without restriction and again produced a harvest in excess of 500,000. A limited fishing period for the eastside setnets and drifting close to the east beach was opened on July 14 to slow the escapement into the Kenai and Kasilof Rivers and another period on July 15 permitted drifting from Kalgin Island south and opened setnets along the east side and on Kalgin Island. eastside setnets were permitted to fish almost continuously from July 13 through July 18. Drifting was allowed in the 3-mile eastside corridor on days when no fishing was allowed in the offshore areas. Catches continued to be very strong with the Upper Cook Inlet harvest approaching 4 million fish by July 18.

The same basic pattern of fishing was sustained through Wednesday, July 22. The 3-mile drift corridor was widened to 8 miles on July 22 to further increase the effectiveness of the drift harvest. No fishing was opened on July 23 as the Kenai River sockeye escapement had slowed and the chinook salmon escapement was lagging. Lacking any significant escapement into the Yentna River and no evidence of substantial abundance of sockeye salmon in the Northern District led to the closure of that area for the regular period on July 24 and a restriction of the drift fleet to the 8-mile corridor. Fish moved very strongly onto the eastside beaches during the July 24 fishing period, producing a record 12-hour period harvest of 380,000 fish for the Upper Subdistrict setnets. By July 24,

the projected final spawning escapement of late-run Kenai River chinook salmon dropped below 19,000, triggering fishery restrictions as required by the regulatory management plan. Restriction of the inriver recreational fishery to catch-and-release fishing only was coupled with the closure of the eastside setnet fishery and the 3-mile drift corridor on all but regularly scheduled openings. The drift fishery was allowed to continue within the 3-8 mile corridor through the weekend of July 25 and 26 and the regular period was again closed in the Northern District and the drift fleet limited to the 8-mile corridor. As of Monday, July 27, the chinook salmon projection had climbed above the 19,000 mark and the projected escapement of Kenai River sockeye salmon exceeded the maximum escapement goal of 700,000, relieving the management plan restrictions on the commercial salmon fishery. All areas fished the remaining regular periods without restriction and, in addition, the eastside setnet fishery and drift fishing in the 8-mile or 3-mile corridors were opened daily through August 8.

In response to a strong return of hatchery-produced sockeye salmon to Packers Creek on Kalgin Island, the Kalgin Island setnets were opened continuously from July 31 through August 8, harvesting almost 40,000 sockeye during that period, nearly half of the season's catch for that area. Nearly 13,000 coho salmon were also harvested during the same time interval.

The Knik Arm setnet fishery opened on July 19 and operated on a two-day-per-week schedule through July 26 as provided for in the recently amended Fish Creek Sockeye Salmon Management Plan. This fishery produced a harvest of 12,100 sockeye and 2,600 coho salmon.

The final Kenai River sockeye salmon escapement of 994,760 was well in excess of the desired range of 400,000 to 700,000. The peak day of passage past the sonar counters was July 25 (83,184) and the 50% point was reached on the same date. The Kasilof River escapement of 183,178 was well within the desired range (150,000 - 250,000). The peak daily passage occurred on July 24 and the 50% point reached on July 12. The Yentna River escapement of 66,057 was well below the desired range of 100,000 to 150,000. The peak daily count occurred on July 27 while the 50% point was achieved on July 26. The Crescent River escapement of 58,227 was near the lower end of the desired range (50,000-100,000). The peak day of escapement into the Crescent occurred on July 23 and the 50% point was reached on July 17. The 50,000 fish point escapement goal for Fish Creek was exceeded by 22,108 fish. The peak daily weir count (10,946) occurred on July 15, two days prior to the 50% point. The escapement goal range of 15,000 - 25,000 for Packers Creek was only slightly exceeded with a final count of 30,143. The Cook Inlet Aquaculture Association was permitted to make cost recovery efforts when it became apparent that the 25,000 level would be exceeded and 9,198 sockeye salmon were harvested in this manner. The peak daily weir count on Packers Creek (6,261 on July 30) coincided with the 50% point of the season's total.

Chum Salmon

Chum salmon returning to Upper Cook Inlet are bound principally for the Susitna River with much smaller returns bound for several streams in Knik and Turnagain Arms and along the west side of the Central District. The harvest occurs primarily in the drift fishery (87%), the Northern District setnet fishery (6%) and the Central District west side setnet fishery (6%). The timing of the Susitna River return significantly overlaps the timing of the sockeye salmon returns and as a result, management measures directed at sockeye salmon often influence the chum salmon harvest. The Susitna River chum salmon escapement is not measured and no escapement objectives are defined.

The 1992 harvest of 274,303 chum salmon was slightly less than half the long-term average and accounted for just 1% of the exvessel value of the salmon fishery. The drift fishery restrictions (limiting fishing to the 8-mile corridor from July 21 through July 30) contributed to reducing the exploitation of the return and the resulting Susitna River escapement was subjectively judged to be average to good.

Chum salmon returns to Central District west side streams were also relatively poor and harvests from these areas were well below average. Escapement in the few streams monitored was generally fair to good.

Pink Salmon

Returns to the Susitna and Kenai rivers combine to account for the majority of the pink salmon production in Upper Cook Inlet. Both rivers have abundant returns only in even-numbered years. Susitna pink salmon return first, passing through the Central District during the latter half of July while Kenai-bound pink salmon are most abundant in the Central District in early August. The harvest occurs principally in the drift fishery (38%), the Central District eastside setnet fishery (36%) and the Northern District setnet fishery (22%).

As with the Susitna chum salmon return, the Susitna pink salmon return overlaps the sockeye salmon return to such a large degree that harvest levels are often influenced by management measures directed at sockeye salmon. Specific fishery alterations directed at Susitna River pink salmon are uncommon. Kenai River pink salmon are harvested most heavily in the Central District eastside setnet fishery in early August. Fishing time in this area after August 5 is typically controlled by the relative strength of the pink salmon return. Estimating the escapement of pink salmon has not proven practical in either system and specific

escapement objectives do not exist.

The 1992 pink salmon return produced a harvest of 695,859 fish, well below average for an even-numbered year, and accounted for only 0.4% of the value of the salmon fishery. The Susitna River pink salmon run was damaged by the 1986 flooding. Subsequent returns have been poor but improving although the 1992 return showed little if any improvement over 1990 and generally followed the trend throughout southcentral Alaska of very poor returns. Lack of directed effort to harvest Susitna-bound pink salmon obviated any need for fishery restrictions. The escapement was subjectively judged to be poor.

The Kenai River pink salmon return, as indicated by daily harvest levels in the eastside setnet fishery, was one of the poorest on record. Lack of substantial effort following the sockeye salmon return resulted in an escapement level that appeared to be fair to good.

Coho Salmon

For discussion purposes, it is useful to divide Upper Cook Inlet's diverse coho salmon stocks impacted by the commercial fishery into three broad categories. The first category contains those stocks bound for the Susitna River and other Northern District streams. These migrate through the Central District during the last three weeks of July. The Cook Inlet Salmon Management Plan identifies Susitna River coho salmon as a stock which should experience a minimized commercial interception, to the extent consistent with other goals established within the Plan. While simple in concept, this directive is much more difficult to implement in practice. The management plan identifies a higher priority for the sustained commercial harvest of sockeye, chum and pink salmon stocks, many of which are bound for the same streams at similar times and along similar pathways utilized by Susitna River coho salmon stocks. Consequently, these stocks are normally exploited at fairly significant levels in the commercial drift and the Northern District setnet fisheries. It is occasionally possible to time fishery closures aimed principally at stock conservation of sockeye salmon to take advantage of peaks in abundance of coho salmon but such opportunities arise too infrequently to consistently meet the Plan objectives.

The second category of interest is the early return of coho salmon to the Kenai River which peaks in abundance in early August and is intercepted in both the drift and eastside setnet fisheries. The allocation status is the same as for Susitna coho salmon. Due to the overlap with the Kenai River sockeye salmon return, it is difficult to avoid a substantial interception of this stock in the commercial fishery.

The third stock grouping consists of a diverse collection of coho salmon returns to the numerous streams along the west side of Cook Inlet. Under the management plan, these stocks are managed primarily for commercial uses. Fishing time in the west side setnet fisheries during August is based primarily on the strength of these returns.

The 1992 coho salmon harvest of 468,911 was significantly above average and accounted for 2.3% of the exvessel value of the salmon fishery. Commercial interception of Susitna River coho salmon was measurably reduced by the late July corridor restrictions of the drift fleet and the simultaneous closure of the Northern District setnet fishery. Inriver abundance was not directly measured but appeared to be good to excellent.

The Kenai River early return exhibited good run strength as judged by daily catches in the eastside setnet fishery. Commercial interception of this stock was substantial due to the extended fishing time targeted on Kenai River sockeye salmon. Additional fishing time did not cease until August 8, the approximate midpoint of the early run of coho. The eastside setnet harvest of 57,000 was significantly above average. Freshwater abundance, as indicated by harvest rates in the inriver recreational fishery, was slightly below average.

The west side and late Northern District coho salmon returns were generally average to above average and fishing in these areas was opened for an additional day each week beginning in August 19. Post-season estimates of abundance in the various freshwater systems producing these coho stocks indicate satisfactory escapements with the exception of Knik Arm stocks where abundance was very poor. Future years will require efforts to identify and restrict portions of the commercial and sport fisheries to insure adequate escapement.

Chinook Salmon

The principle stocks of chinook salmon harvested in the commercial fishery are the return to the Susitna River and the late run to the Kenai River. Created by the Board five years ago and conducted under the direction of the Susitna River Chinook Salmon Management Plan, a minor fishery occurs each June for set gillnets in the Northern District. Each participant is allowed one 35-fathom net and a minimum distance of 1200 feet must be maintained between nets (twice the normal distance). Fishing is permitted for 6 hours each Monday in June until the quota of 12,500 chinook has been harvested or the regular season opens on June 25. Harvest levels have approached or reached the quota in most years but early closures have generally not been required.

The 1992 Northern District chinook salmon fishery harvested 3,918 chinook salmon, by far the lowest catch since the inception of the fishery. The principle reason for the reduced harvest was the significantly reduced run-strength of chinook salmon as evidenced by reduced abundance in many rivers and tributaries. Conservation restrictions in many of the sport fisheries were accompanied by emergency order closure of the final scheduled period (June 22) in the commercial fishery.

The other major stock of chinook salmon harvested in the commercial fishery, the late run to the Kenai River, generates the greatest controversy in Upper Cook Inlet, pitting Kenai River recreational anglers against Upper Subdistrict ("eastside") setnetters. An average of over 13,000 chinook salmon were taken annually during the 1980's in the commercial setnet fishery, frequently exceeding the sport fish harvest. Much smaller numbers are taken in the drift gillnet fishery.

The 1992 eastside setnet fish ticket total of 10,718 chinook salmon represents the highest catch since 1989, due in part to the intense fishing directed at large surpluses of Kenai River sockeye salmon. As noted in the "Sockeye Salmon" section, above, the provisions of the Kenai River Late Run Chinook Salmon Management Plan resulted in the restriction of the eastside setnet fishery and the drift fishery along the eastern shore on July 25 and 26.

The harvest was spread fairly evenly over the eastside beach areas with Ninilchik (244-21), Cohoe (244-22) and Kalifonsky (244-30) averaging 20, 20 and 21 chinook salmon per permit holder, respectively, while Salamatof Beach permit holders averaged just 17 fish. A total of 64 chinook salmon were reported as retained for personal use by commercial fishermen, 45 of those coming from the Central District eastside setnet fishery.

Post-Season Perspective

The preseason anticipation of a below-average return to the Susitna River coupled with a modest return to the Kenai River led to the expectation of a similar management strategy as that employed in 1990 and 1991. In those years, reduction in drift gillnet fishing time in offshore areas coupled with a conservative fishing pattern in the Northern District setnet fishery succeeded in producing satisfactory escapements in the Susitna River while intensive fishing along the Central District east side was successful in preventing excessive escapement in the Kenai River.

In 1992, as the results from early drift periods became available, it soon was apparent that the Kenai River return was far stronger than expected and the

anticipated management strategy needed to be significantly altered to prevent severe overescapement in the Kenai. Balancing risks to both systems, the drift effort was increased moderately, severe restrictions were imposed in the Northern District and effort was maximized along the Central District east side. The results bear out the balance of risk imposed - a significant shortfall of escapement in the Susitna and a significant level of excessive escapement in the Kenai. In hindsight, it remains difficult to envision a strategy that would have produced a more satisfactory result.

Price, Average Weight and Participation

In general, prices paid to fishermen for their catch improved substantially from 1991 prices. The price per pound for sockeye salmon rose to \$1.60, up 60 cents from the previous year (Appendix A.12). Chinook, coho, pink and chum salmon were sold for \$1.50, \$0.75, \$0.15 and \$0.40 per pound, respectively. It should be noted that these averages are generated from inseason grounds prices and do not reflect any post-season adjustments.

As determined from fish ticket calculations, the average weight by species did not differ markedly from prior years. Chinook salmon averaged 24.6 pounds per fish while sockeye, coho, pink and chum salmon averaged 6.6, 6.4, 3.9 and 6.7 pounds, respectively (Appendix A.13).

The Commercial Fisheries Entry Commission issued 583 drift gillnet permits (69.5% to Alaska residents) and 745 set gillnet permits (85.6% to Alaska residents) for the Cook Inlet area in 1992 (Appendix A.14). A total of 30 firms or individuals purchased Upper Cook Inlet fishery products during 1992 (Table 13).

Stock Status and Outlook

In general, Upper Cook Inlet's salmon stocks are in good condition although several problem areas currently exist. Although the Kenai River has recently produced sockeye salmon returns at record levels, monitoring of smolt production indicates this return will decline precipitously over the next several years. Studies presently suggest the sequential large escapements observed in 1987, 1988 and 1989 overtaxed the rearing capability of the system, leading to subsequent failures in fry survival that has carried at least one year beyond the large brood years. It is unknown at this time how long the low level of juvenile production will continue but adult returns in 1994 and 1995 will likely offer little in the way of harvestable surplus. Management actions in that portion of the commercial fishery harvesting significant numbers of Kenai River sockeye

salmon will need to be severely curtailed in those years in order to achieve the best possible escapement. Kasilof River returns, very strong through the early and mid 1980's, appear to have stabilized at somewhat lower levels and returns there are expected to remain at about average levels over the next several years. Susitna River escapements in two of the recent parent years were significantly below desired levels and returns to this system for 1993 will likely be diminished but should recover quickly. Despite very high parent-year escapements, recent production from Crescent River has been poor. The near-term outlook for this system is difficult to project although all recent escapements were in excess of the minimum goal. In summary, Upper Cook Inlet sockeye salmon harvests through the 1990's will likely average less than three million, a significant decline from the 1980's but substantially above the long-term average. For 1993, the expected total return of sockeye salmon is forecast to be 4.0 million and the harvest should equal 2.5 million (Appendix A.15).

Chum salmon production has been relatively poor in recent years, in part due to after-effects of the fall flooding of the Susitna Basin, but likely also due to poor general environmental factors. Chum salmon stocks throughout Kamishak Bay have shown a similar drop in productivity. Lacking quantitative escapement information, it is more difficult to speculate on near-term returns but it is likely that chum salmon returns will be poor to fair over the next four years. The 1993 harvest projection for chum salmon is 350,000.

Susitna River pink salmon have recovered substantially from the 1986 flood but overall marine survival of pink salmon appears to be waning. Although difficult to evaluate with any surety, the 1993 pink salmon return will most likely be below average for an odd-numbered year with the harvest projected to be 25,000.

Upper Cook Inlet's coho salmon stocks generally produced very strong returns throughout most of the 1980's and no downturn in this trend has been observed. Susitna River escapements have been excellent for the last several years and the outlook for this return is very good. Early-run Kenai River coho salmon returns have ranged from average to good in recent years but harvests have been high in both the commercial fishery and in the rapidly growing sport fishery. The condition of this stock will need to be carefully monitored in the coming years. The Upper Cook Inlet commercial harvest for 1993 is projected to be 450,000.

All chinook salmon stocks in Upper Cook Inlet appear to be in generally good condition with the exception of several river systems immediately south and west of the Susitna River. These systems apparently sustained substantial damage during the 1986 flooding and returns will likely be below average for the next several years. The 1993 projected Upper Cook Inlet commercial chinook salmon harvest is 15,000.

1992 COMMERCIAL HERRING FISHERY

Upper Cook Inlet herring stocks appear to be in a generally depressed condition which has resulted in harvests well below harvest guidelines for the last two years. Prior to the 1992 fishing season the Western Subdistrict of the Central District was closed by emergency order in order to protect the Tuxedni Bay area herring stocks. In addition, the Lower Subdistrict of the Central District was closed to protect Tuxedni Bay stocks and also to eliminate the movement of fishing effort to the waters outside of Chinitna Bay, where herring of inferior roe quality were being harvested and subsequently wasted.

Eastside Beach

The fishery on the east side opens by regulation on April 15 however the majority of the fishing effort does not take place until mid May. The first reported harvests in this fishery occurred on May 3. Harvests in this fishery were sporadic with minimal amounts of herring being taken on a daily basis. The majority of the harvest (96%) occurred in the three southern statistical areas of the Upper Subdistrict with only 1.1 tons being harvested in the Salamatof beach area. The total harvest for the entire eastside fishery was 24.7 tons (Appendix A.9). This was much lower than the preseason expectation of 50 tons for this area. A total of 16 permit holders were active in this fishery making 19 landings. The total exvessel value of this fishery is estimated at 12,000 dollars. The harvest was composed of predominately age 6 (20%), age 7 (38%) and age 8 (28%) fish (Table 14).

Chinitna Bay

The fishery in Chinitna Bay generally begins by early May and is over by mid May. In 1992 the first reported harvests did not occur until May 14 when a total of 3.3 tons of herring were harvested. On May 19 an additional 7.2 tons were harvested before all processors and fish buyers abandoned this area. The total reported harvest from this area is 10.4 tons, the lowest reported harvest in this fishery since it's inception in 1978. A total of 10 permit holders were active in this fishery making 10 landings. The total exvessel value of this fishery is estimated at 5,000 dollars. The age composition of the harvest was dominated by age 6, (14%) age 7, (19%) age 8 (26%) and age 9 (23%) fish (Table 15). There were no reports of dumping immature herring as there has been in past years indicating the preseason emergency order closing the outside waters of the Lower Subdistrict was effective.

Post Season Board Action

The Board of Fisheries during the 1992 meeting covering Cook Inlet adopted a department proposal to open Upper Cook Inlet to herring fishing only during periods established by emergency order. It is anticipated that the Upper Cook Inlet Area will not be open for several years in order to allow these herring stocks to rebuild.

COMMERCIAL RAZOR CLAM FISHERY

The commercial razor clam fishery in Upper Cook Inlet dates back to 1919 with sporadic harvests occurring until 1977 when a stable fishery developed that has harvested an average of 250,000 pounds annually. Since 1959 the east side of Cook Inlet south of the Kenai River has been closed to harvesting clams for commercial purposes. The remainder of the Upper Cook Inlet Management Area has no closed season and no overall harvest limits. Currently this fishery occurs primarily on the west side of Cook Inlet between the Crescent River and Redoubt Point. All clams harvested in this area are directed by regulation to be sold for human consumption, except for the small percentage (less than 10%) of broken clams which may be sold for bait. In the remainder of the Upper Cook Inlet Management Area there are no restrictions on the amount of clams that can be sold for bait. The minimum legal size for razor clams is four and one-half inches (114 mm) in shell length.

The 1992 fishery began in late May and the last reported deliveries were made on August 31. The season's harvest of 296,727 pounds was taken primarily from the Polly Creek area (Appendix A.10). A total of 32 diggers made 1,550 landings over the course of the season. Diggers were paid an average of \$.48 per pound for their harvest making the total fishery exvessel value \$143,000. Tide tables covering the 1992 fishery can be found in Table 17.

SUBSISTENCE AND PERSONAL USE FISHERIES

Prior to the actions taken by the Board of Fish for the 1991 fishing season, the only area open to subsistence fishing in Upper Cook Inlet was the Tyonek Subdistrict on the west side of Cook Inlet in the Northern District.

Under the new regulations promulgated by the Board of Fisheries, the Upper Cook Inlet Subsistence Salmon Management Plan, subsistence fishing would be allowed with 10 fathom set gillnets in most marine water areas of Upper Cook Inlet normally open to commercial set gillnet fishing. In addition setnet fisheries were created in the Knik Arm, as well as dip net fisheries in the mouths of the Kenai and Kasilof Rivers.

The annual bag and possession limits for this fishery were established at twenty-five salmon per permit-holder of which no more than five could be chinook salmon, with an additional ten salmon for each household member of which no more than one could be a chinook salmon. Subsistence periods were scheduled on select Wednesdays and Saturdays from 8:00 a.m. to 8:00 p.m. by regulation.

The legal gear for this fishery consisted of set gillnets and dip nets. The gear specifications in the set gillnet fishery were for a maximum length of 10 fathoms (60 feet) and no more than 45 meshes in depth. Mesh size must be greater than four inches but may not exceed six inches. In the dip net fishery the legal gear consists of "a bag shaped net supported on all sides by a rigid frame. The maximum straight line distance between any two points on the net frame as measured through the net opening may not exceed five feet. The depth of the bag must be at least one half the greatest straight line distance as measured through the net opening. No portion of the bag may be constructed of webbing which exceeds a stretched measurement of 4.5 inches. The frame must be attached to a single rigid handle and be operated by hand."

In addition to allowing subsistence fisheries in most areas of Upper Cook Inlet, this regulation also eliminated the Kasilof and Central and Northern Districts Personal Use Gillnet Fisheries.

Upper Cook Inlet Subsistence Fishery

The 1992 subsistence fishery was the second year of the fishery created in 1991 by the Board of Fisheries. The fishery in 1991 was interrupted by three separate court decisions eliminating the majority of the open periods in the fishery. These legal challenges did not occur during the 1992 season and all thirty-five fishing periods remained open as scheduled. A total of 9,500 permits were issued

for the 1992 season. Approximately 43.2 percent of these permits were returned as required. Harvest statistics were developed only from these returned permits. A total of 1,149 of the returned permits were not used to participate in this fishery. Of the remaining permits, 1,387 were used to dip-net in the Kenai and Kasilof Rivers harvesting 19,826 salmon (Table 18). A total of 1,646 permits were used to set gillnet in the marine waters of Upper Cook Inlet, harvesting 41,697 salmon (Table 18). Seventy-five permits were used to both set gillnet and dip net. The majority of the effort and harvest were from the east side of the Central District and from Knik Arm of the Northern District.

Post Season Board Action

In the 1992 session the Alaska State Legislature passed legislation that allowed the Boards of Fish and Game to establish non-subsistence areas, where subsistence was not a principal part of the social or economic structure of the community. The Board of Fisheries during the 1992 meeting covering Cook Inlet established that most of Upper Cook Inlet was a non-subsistence area and rescinded the Upper Cook Inlet Subsistence Salmon Management Plan thereby eliminating this fishery and reinstating the personal use fisheries at the mouth of the Kasilof River and the Fall Coho Personal Use Fishery.

The Kenaitze Tribal Fishery

This fishery granted to the Kenaitze tribe under a consent preliminary injunction issued in 1989 from the U.S. District Court and the State Superior Court was continued each year to and including 1992. Under the terms of the injunction, the Kenaitze Tribe was issued a single permit allowing the bearer, who must be a tribal member domiciled in Game Management Units 7 or 15 (the Kenai Peninsula), to operate a single 10-fathom set gillnet having a mesh size no greater than 8.5 inches in the Kenai River downstream from a point one-quarter mile above the Warren Ames Bridge and including those marine waters adjacent to the river mouth normally closed to commercial salmon fishing. Fishing was permitted each day on a 24-hour basis from June 1 to September 1 and from September 16 to September 30. Fishing was to cease when a total of 5,000 salmon had been harvested. A total harvest quota of 300 chinook salmon was also in effect after which all chinook would be released alive. A third provision of this permit allowed for a harvest quota of no more than 500 coho salmon taken after September 15.

Fishing occurred primarily in marine waters south of the mouth of the Kenai River and occasionally in an area known as the "Birches", a prominent stand of birch trees on the south bank of the river immediately upstream of the Warren Ames

Bridge. The harvest, as reported by the tribal office, totaled 55 chinook, 2,025 sockeye, 3 pink and 3 coho salmon.

Tyonek Subsistence Salmon Fishery

Created by court order in 1980, this fishery was originally open only to those individuals domiciled in the village of Tyonek. Recent court decisions allow any Alaska resident to participate although very few non-villagers seek permits. Only one permit is allowed per household and each permit holder is allowed a single ten-fathom net having a mesh size no greater than six inches. Fishing periods are open from 4:00 a.m. to 8:00 p.m. each Tuesday, Thursday and Friday from May 15 to June 15 and from 6:00 a.m. to 6:00 p.m. each Saturday after June 15. The 1992 season resulted in a total reported harvest of 872 chinook, 42 sockeye, 34 coho, 5 pink and 12 chum salmon (Miraglia, ADF&G, memorandum). The chinook harvest has declined steadily since 1983 when the harvest peaked at 2,755. Forty-four permits were issued for the early season and fifty-seven permits for the late season (Appendix A.16).

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- Tarbox, K.E. 1993. An estimate of the 1992 total sockeye salmon return to Upper Cook Inlet, Alaska, using a test fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2A93-20, Anchorage.

Table 1. Offshore sockeye salmon test fishing observations, F/V Corrina Kay, 1992.¹

		FISHING					MEAN	MEAN	WATER	AIR		BEGINNING	ENDIN
	NUMBER OF	TIME	c	UMULATIVE		CUMULATIVE	LENGTH	WEIGHT	TEMP	TEMP	SALINITY	WIND	WIND
DATE	STATIONS	(min)	CATCH	CATCH	INDEX	INDEX	(mm)	(kgs)	(c)	(c)	(ppm)	VEL DIR	VEL DI
					<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	4				****		· ·	
7/01	6	211.5	5	5	4.049	4.049	513.	.00	10.6	13.7	29.5	3 N	0
7/02	5	172.0	9	. 14	8.460	12.509	529.	.00	10.0	9.8	30.4	10 S	8 SE
7/03	6	213.5	6	20	5.033	17.542	540.	.00	10.8	14.3	30.5	0	0
7/04	5	180.5	30	50	24.333	41.875	556.	.00	10.2	11.4	30.6	8 SE	4 SW
7/05	6	223.0	47	97	37.450	79,325	552.	.00	10.0	10.2	30.5	6 SE	8 SE
7/06	5	181.5	26	123	21,380	100.705	564.	.00	10.2	10.0	29.6	0	0
7/07	6	216.5	3	126	2.540	103.245	603.	.00	10.4	12.0	29.3	0	0
7/08	5	188.5	53	179	38.681	141.926	560.	.00	10.6	10.0	29.6	12 NE	15 NE
7/09	6	226.5	103	282	79.513	221,439	572.	.00	10.3	12.8	29.8	4 NW	0
7/10	5	189.5	112	394	81,600	303,039	573.	.00	11.1	10.4	28.8	0	6 N
7/11	6	210,5	42	436	32.790	335.829	581.	.00	12.2	12.7	27.8	0	4 SW
7/12	5	194.5	76	512	53,333	389.162	570,	.00	13.0	11.6	27.4	0	8 SE
7/13	6	272.5	388	900	224.160	613.322	571.	.00	12.9	12.3	27.8	12 SE	15 S
7/14	5	198.0	73	973	43,790	657.112	570.	.00	13.4	10.4	27.0	5 SE	4 S
7/15	6	266.5	371	1344	235.970	893.082	575.	.00	10.7	13.0	29.3	0	0
7/16	5	202.0	87	1431	66,710	959.792	568.	.00	10.4	11.4	29.6	7 SE	7 S
7/17	6	290.0	653	2084	349,590	1309.382	574.	.00	11.2	12.8	27.2	0	6 SW
7/18	5	188.0	53	2137	42.070	1351.452	566.	.00	10.8	11.8	28.6	3 S	0
7/19	6	247.0	105	2242	63.700	1415.152	558.	.00	10.7	15.0	28.3	0	3 SE
7/20	4	173.0	161	2403	102.700	1517.852	568.	.00	11.0	13.0	28.5	10 SE	25 SE
7/21	6	225.0	67	2470	46.213	1564.065	575.	.00	11.7	10.5	27.3	5 NE	17 N
7/22	3	126.0	66	2536	40.200	1604.265	573.	.00	10.3	10.0	28.3	10 N	25 N
7/23	6	190.5	43	2579	39.929	1644.194	564.	.00	11.0	13.7	27.6	8 N	10 NE
7/24	5	186.5	21	2600	15.833	1660.027	562.	.00	11.0	14.0	27.2	6 N₩	6 N
7/25	6	234.0	51	2651	35,092	1695.119	574.	.00	11.6	13.0	26.7	0	10 SW
7/26	5	193.5	101	2752	66,550	1761.669	565.	.00	11.8	13.2	25.9	0	5 NE
7/27	6	231.0	54	2806	37.600	1799.269	556.	.00	12.0	13,3	26.0	0	5 NW
7/28	5	186.0	80	2886	60.520	1859,789	573.	.00	10,8	10.2	27.6	3 NE	15 NW
7/29	6	233.0	145	3031	103.863	1963.652	572.	.00	10.3	11.8	28.0	0	7 NW
7/30	5	184.0	74	3105	57.000	2020,652	572.	.00	10,6	9.8	27.8	0	10 SE

¹ From Tarbox (1993)

Table 2. Sockeye salmon escapement by date and river, 1992.

Date		RIVER umulative	KASILO daily cu	F RIVER umulative	CRESCE daily cu	NT RIVER mulative	YENTM daily cu	iA RIVER mulative	FISH daily cum	CREEK mulative	PACKER daily cu	RS CREEK mulative
6-15 Mon 6-16 Tue 6-17 Wed 6-18 Thu 6-20 Sat 6-21 Sun 6-22 Mon 6-23 Tue 6-24 Wed 6-25 Thu 6-26 Fri 6-27 Sat 6-28 Sun 6-29 Mon 6-30 Tue 7-01 Wed 7-02 Thu 7-03 Fri 7-04 Sat 7-05 Sun 7-06 Mon 7-07 Tue 7-08 Wed 7-09 Thu 7-11 Sat 7-12 Sun 7-13 Mon 7-14 Tue 7-15 Wed 7-17 Fri 7-18 Sat 7-19 Sun 7-16 Thu 7-17 Fri 7-18 Sat 7-19 Sun 7-21 Tue 7-22 Wed 7-23 Thu 7-24 Fri 7-25 Sat 7-26 Sun 7-27 Mon	2782 2332 2957 2163 1191 2484 954 1456 1180 2739 1718 20672 67632 64127 26795 11112 16882 8403 29047 49662 36142 31463 49356 83184 76952 64922	2782 5114 8071 10234 11425 13909 14863 16319 17499 20238 21956 42628 110260 174387 201182 216827 227939 244821 253224 282271 331933 368075 39953 448894 532078 609030 673952	daily cumps of the control of the co	707 1591 2727 4679 6059 8147 10772 14006 17575 21970 25947 31020 38497 45019 52474 58547 61234 63306 67528 68522 71684 75213 76182 77879 79809 82433 84211 95112 106950 109250 110945 112599 114788 117854 121511 128895 132534 140889 154473 16288 170819 176165	2596 1595 1396 1074 1382 850 357 791 1116 1192 1790 2864 2513 2525 2627 2269 2868 1595 1974 2111 2510 2802 4154 3408 2711 1220 833	2596 4191 5587 6661 8043 8893 9250 10041 11157 12349 14139 17003 19516 22041 24668 26937 29805 31400 33374 35485 37995 40797 44951 48359 51070 52290 53123	150 76 126 118 83 110 136 286 387 870 1734 1574 2246 1894 2360 3016 4417 5049 4930 4746 5737	150 226 352 470 553 663 799 1085 1472 2342 4076 5650 7896 9790 12150 15166 19583 24632 29562 34308 40045	39 94 0 268 6579 10198 5453 3585 5326 7523 6552 1670 379 24 2757 281	39 133 133 401 6980 17926 26425 36623 42076 45661 50987 58510 65062 65732 67111 67135 69892 70173	daily cu 10 0 60 30 87 56 10 0 86 44 15 1 0 335 94 30 95 62 57 93 87 32 50 38 35 52 240 504 430 225 396 348 320 948 502 99 320 64 597 391 968	100 100 187 243 253 253 339 399 734 828 858 953 1015 1075 1165 1252 1284 1334 1372 1407 1459 1699 2203 2658 3254 3602 3922 4870 5372 5471 5791 5855 6843 7811
7-27 Mon 7-28 Tue 7-29 Wed 7-30 Thu	64922 62641 57354 32174	673952 736593 793947 826121	5346 1670 1194 947	176165 177835 179029 179976	833 883 1170 703	53123 54006 55176 55879	5737 4477 3973 3964	40045 44522 48495 52459	281 53 91 887	70173 70226 70317 71204	968 669 2734 6261	7811 8480 11214 17475
7-31 Fri 8-01 Sat 8-02 Sun	12484 10958 10097	838605 849563 859660	1178 948 1076	181154 182102 183178	859 706 783	56738 57444 58227	2066 2140 1555	54525 56665 58220	101 28 52	71305 71333 71385	4725 1490 354	22200 23690 24044
8-03 Mon 8-04 Tue 8-05 Wed 8-06 Thu 8-07 Fri	6344 6231 11435 14787 12199	866004 872235 883670 898457 910656					994 917 310 446 475	59214 60131 60441 60887 61362	95 78 15 44 81	71483 71561 71576 71620 71701	9 581 206 722 1332	24053 24634 24840 25562 26894
8-08 Sat 8-09 Sun 8-10 Mon 8-11 Tue 8-12 Wed	14584 11569 13626 13588 11866	925240 936809 950435 964023 975889					821 1647 1168 1059	62183 63830 64998 66057	17 56 9 7 56	71718 71744 71783 71790 71846	321 105 249 520 272	27215 27320 27569 28089 28361
8-13 Thu	18871	994760							90	72108	212	30143

Table 3. Commercial chinook salmon catch by area and date, Upper Cook Inlet, 1992.

	exclus	FT 11ng				EASISTEE	SETHET	•											MORTE	ERN DIST	RICT SET	NET
	CHINIT		SALA	MATOF	K-8	EACH	COHOE/N	INILCHIK	TO.	TAL	VEST	SIDE	KUST/	MATA	KAL	eim	CHINI	THA	WEST	SIDE	EAST	5 I DE
	Daily	Cum	Daily	Cum	Daily	Cum	Da1ly	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Dally	Cum	Daily	Cum	Da11;	Cum	Dally	۵
-															-							
5													167	167								
•													401	568								
ı													171	739					800	800	111	1
5													194	933						800		1
•														933					1,758	2,550	433	•
														933					682	3,240	134	•
•											29	29		933						3,240		•
											37	66		933						3,240		•
	27	27									46	112	•	942	10	10	1	1	311	3,551	32	,
1	34	61									45	157	1	943	23	41		1	75	3,626	15	,
1	•	70			57	57	97	97	154	154		157		943		41		1		3,626		,
	52	122	94	94	158	225	157	254	419	573	25	182	10	953	•	44		1	46	3,672	1	1
	20	150	94	100	139	364	149	403	302	955	16	196	•	956		44		1	25	3,697	6	2
	41	191	28	216	240	604	244	647	512	1,467	•	207	2	950	4	48		1	49	3,746	3	1
•	46	237	99	312	316	920	379	1,026	794	2,261	12	219		950	2	50	1	2	14	3,760	2	1
	40	285	175	490	291	1,211	309	1,415	855	3,116		219		950		50		2		3,760		,
•	30	315	33	523	99	1,310	122	1,537	254	3,370		219		956	3	53		2		3,760		1
•	22	367	101	624	139	1,449	327	1,864	547	3,937		219		950		E3		2		3,760		7
,	22	309	225	849	179	1,628	231	2,095	635	4,572	16	235	•	959	1	54	1	3	17	3,777	2	,
	31	420	72	921	133	1,761	242	2,337	447	5,019		235		959		54		3		3,777		1
		420		92 l		1,761		2,337		5,019		235		959		54		3		3,777		,
	29	449	104	1,025	154	1,915	313	2,650	571	5,590	,	244	1	960	2	54		3	•	3,706	ι	1
	35	484	97	1,122	231	2,146	227	2,677	555	6,145		244		960		56		3		3,706		1
t	22	506	103	1,225	121	2,267	212	3,009	436	6,581		244		960		54		3		3,706		1
•	16	522	36	1,261	64	2,331	54	3,145	156	6,737	2	246		960		54		3		3,786		1
	,	529		1,261		2,331		3,145		6,737		246		960		54		•		3,706		1
	4	533		1,261		2,331		3,145		6,737		246		960		56		3		3,706		1
	10	551	92	1,353	141	2,472	128	3,273	361	7,098	3	249	2	962	3	59		3		3,706		,
	15	566	113	1,466	145	2,617	140	3,413	396	7,496		249		962		59		3		3,706		,
	,	573	69	1,535	137	2,754	125	3,536	231	7,827		249		962		59		3		3,786		,
	3	576	84	1,619	101	2,855	100	3,630	285	6,112		249		962		59		3		3,706		
	•	584	83	1,702	124	2,979	96	3,734	303	8,415	1	250	1	963		59		3	1	3,787		,
	1	505	73	1,775	104	3,003	67	3,801	244	4,659		250		963	1	60		3		3,787		,
Ł	3	500	72	1,847	120	3,203	78	3,879	270	0,929	_	250		963		60		3	_	3,767		,
1	2	590	57	1,904	190	3,363	93	3,972	330	9,259	2	252		963		60		3	,	3,794		,
,	5	595	82	1,906	166	3,549	95	4,047	343	9,602		252		963		60		3		3,794		,
5	3	598	90	2,066	95	3,644	91	4,150	266	1,968		252		963	1	61		3		3,794		,
•	,	605	67	2,133	97	3,741	••	4,247	253	10,121		252		963	1	62		3		3,794		,
,	5 1	610 611	83 58	2,216	73 111	3,814 3,925	50 46	4,305 4,351	214 215	10,335		252		963	2	64		3	3	3,797	,	,
	•	•11	24	.,4/4	•••	3,743	••	4,351	413	10,550		252		963		64		3		3,797		,
	1	612	53	2,327	53	3,978	19	4,370	125	10,675	1	253		963		64		3	s	3,802		,
	3	615	19	2,346	16	3,994	•	4,378	43	10,710		253		963		64		3	1	3,003	1	,
		615		2,346		3,994		4,376		10,718		253		963		64		3	1	3,804		,
1		615 615		2,346		3,994		4,378		10,718		253		963	1	64		3	2	3,006	1	,
		-13		2,346		3,994		4,376		10,718		253		963	1	65		3		3,006		,
		615		2,346		3,994		4,378		10,718		253		963		65		3		3,006		,
		615		2,346		3,994		4,378		10,718		253		963		65		3	1	3,807		,
1		615		2,346		3,994		4,378		10,710		253		963		65		3	ı	3,000	1	,

Table 4. Commercial sockeye salmon catch by area and date, Upper Cook Inlet, 1992.

		DAILL				_ EAST \$10																
		cluding																		HERN DIS	TRICT S	ETMET
	CH	INI THA	5.0	LAMATOF	_	-BEACH		/# INTICHTE		TOTAL	VES	¥ \$10€	10.15	MATAT	•	CALGIN		METHA	WES	T SIDE	EAS	LT SID
te	Dati	y Cum	Pail	у сыя	De 11;	, cum	Defl	· 0-	De11	у Оше	Dail	y Cum	Pail	y 0-	Dail	y Cum	Da17	у Сыт	Dail	y Cum	De11	y a
_																	_					
25													96	96								
29													522	341								
01													439	780					252	252	155	1
05													1,353	2,133						252		1
00													1,590	3,723					326	570	821	•
15														3,723					966		597	1.5
19											263	263		3,723						1,444	31/	1,5
22											509	772		3,723						1,444		1.1
26	10,247	10,247									506	1,277	\$7	3,700	631	031	97	97	111	1,555	234	1,1
-29	34,786	45,033									1,422	2,709	43	3,623	2,060	2,091	125	222	110	1,665	178	1,9
.00	1,399	46,432 94,765	1,941	1,941	6,481 7,597	14,078	12,746	12,746 23,430		19,227 38,457	903	2,709 3,512	24	3,823	522	2,091 3,413	70	222 232	199	1,648	340	2,
	332,236	427,001	2,061	4,002	3,924	10.012	6,348	20,704		50,800	1.352	4,064		3,895	419	3.832	52	344	367	2,231	430	2.7
	520,140	947,141	1,105	5,107	4,249	22,261		40,486		67,856	1,677	6,541	64	3,959	969	4,701	70	414	341	2,572	262	3,0
13	573,454	1,520,595	85,752	90,859	86,263	100,524	65,792	106,200		305,663	1,209	7,830	319	4,270	2,469	7,170	73	487	7,995	10,547	_	5,
		1,579,782				141,433		129,607		421,515		7,830		4,278		7,170		447		10,547		5,
		2,119,389		162,566	-	174,851 216.969	,	181,000		510,417		7,830		4,278	1,197	m,367		487		10,547		5,
		2,196,808		259,409		291.622		309,575		647,271 860,606	2.021	10,701	463	•	2.452	11,019	57	544	10.463	10,547	7.731	5, 2,
		2,907,096	-	309,592	-	349,767		-		1,019,172		10,701		4,741	-,	11,019		544	,	21,030	-,,	•,
19		2,907,096		309,542		349,767 422,701		259,813		1,019,172		10,701		4,741		11,019	78	544		23,878		
		3,548,424 3,745,205		493,984		503,476				1,223,670	2,507	13,200	740	5.481	17,704	20,723	/•	622 622	10,350	34,228	1,437	
		4,199,437		559.021		549,077				1,646,799		13,200		5,481		28,723		622	4,001	28,309		10,
		4,526,942				720,356				2,043,156	3,924		1,821	7,302	7,364		57	679		30,309		10,
		4,734,896 4,952,081		670,031 670,031		720,354 720,356		652,769 652,769		2,043,156		17,132		7,302		36,087		679 679	2 -10	38,309 42,128		10,
		5,159,663	36.862	706,894	17,406	737,762	0,549			-,,	1.850	18,990	657	7,952	0.254			679	3,019	42,128		10,
		5,352,734			- •	751,093	6,607			2,147,678	.,	18,990		7,959	*,**	44,341		679		42,128		10,
-29	181,319	5,534,055	17,291	745,931	9,018	760,111	5,309	673,254	31,610	2,179,294		18,990		7,952		44,341		479		42,128		10,
		5,710,386 5,855,131		795,149 064,562		792,533 812,191	9,309			2,260,245	1.966	18,990	831	7,959	8,699	44,341 53.040	12	679 691		42,128		10,
-01		5,864,568		890,003		822,197	3,926			2,409,747	1,700	20,956	•31	8,790	3,454	- •	1.2	691	4,668	46,796 46,796	864	10,
- 02		5,091,652		912,470		046,021	#,352			2,464,390		20,956		8,790		63,677		691		46,796		10,
-03		5,952,809		928,000	20,634	866,655	13,454			2,514,818	604	21,560	192	8,982	3,734	67,411		691	2,294	49,090	513	
-04		5,958,847				801,109	-	•		2,562,778		21,560				71,681		691		49,090		11,
-05		5,941,563		990,358	30,313	911,502				2,454,409		21,560		8,962		70,075		691		49,090		11,
-04		6,011,017 6,052,156		1,000,365 1,036,609	10,655	930,357 946,964				2,714,827 2,774,848		21,560	326	8,982 9.308	2,929	81,123 84,052	22	691 713	1.097	49,090	1.300	11.
-04		6,056,820		,050,491		957,372	8,997			2,806,025	1,000	23,220	324	9,300		85,625		713	1,09/	50,967 50,967	1,300	12,
							•	,						-,	••-					,		
- 10		6,067,406		1,059,004	2,704	960,076	3,609		14,626	2,822,851	513	23,733	44	9,376	1,350	06,975	30	743	1,033	62 , D2O	458	13,
- 14		6,068,621		,070,683	2,564	962,640	962	004,753	15,225	2,830,076	549	24,262		9,500	2,651		1	744	1,011		1,100	14,
- 17		6,069,299		,070,483		962,640		904,753		2,838,076		25,004	83	9,433	1,364	-	2	746	335	\$3,366		14,
- 19 - 21		6,069,299 6,069,475		,070, 643 ,070, 643		962,640		804,753		2,838,076		25,133 25,426		9,633		91,873	107	746		63,405 53,604		14,
	.,•	-,009,4/3	,			202,000		,-33		. , 250 , 0/6	273	,-4		,,,,,,,	0	J2, 141 J	10/	733		ماريد ا	140	,
24		4,069,475		,070,683		962,640		804,753		2,838,076	47	25,473		9,633	204	92,007	2	e 55	234	\$3,840	98	15,
- 26		4,069,475		,070,683		962,640		804,753		2,838,076		25,964		9,639		93,207		855		54,010	130	
- 28		6,069,475		,070,643		962,640		804,753		2,834,076		26,405	1	9,640		93,435	70	925	•	54,024		15,
31		6,069,475		1,070,683		962,640		804,753		2,838,076		26,594		9,640	54	93,409	75	1,000		54,024		15
02		6,069,475		,070,643		962,640		804,753		2,830,076	5 07	24,901		9,640		93,409		1,000		54,024	50	15
04		6,069,475		,070,643		962,640		804,753		2,838,076	196	27,099		9,640		93,469	2	1,002		54,024	33	15
-07		6,069,475		,070,603		962,640		804,753		2,836,076		27,099		9,640		93,489		1,002		54,024		15,
. 01		6,069,475	1	.070,683		962,640		004,753		2,830,076	1	27,100		9,640		93,489		1,002		54,024	2	15,
- 11		6,069,475		1,070,683		962,640		804,753		2,834,076	80	27,180		9,640		93,489		1,002		54,024		15,

Table 5. Commercial coho salmon catch by area and date, Upper Cook Inlet, 1992.

		RIFT	_			EAST SIDE	SETMET															
	_	luding																	HORT	HERM D15	TRICT S	ETHET
	CHI	AMTIN	SAL	ARATOF	K-I	BEACH	COHOE/	HINILCHIK	7	OTAL	VES	T SIDE	FL/5	HATAT		ALGIN	CHI	AHTIM	WES	T SIDE	EAS	ST \$10E
Date	Daily	Cum	Defly		Daily	Cum	Delly	Cum	Defly	Cum	De11;	y 0==	Da11	ly Cum	Da11	y Dum	Dail	y Cum	Da1)	y Cum	Dell	ly Cum
											_											
5-25																						
5-29													•	•								
6-01														•								
6-05 6-08													137	145								
5-00																						
6-15														145								
6-19														145								
6-22	_										34	×		145								_
6-26 6-29	26 196	26 222										36 36		145 145	14	14			10	10	1	1 2
						_				_												
6-30 7-03	2 371	224 595	,	•	2) 5	4	•	15	3 18		36 44	•	14 5 151		14 23			25	10 35	2	2
7-06	2,264	2,050	69	70	3		4		76	94	11	55	4	155	6	29			78	113	5	•
7-10	3,963	6,822	47	125	\$7	45	21	29	125	219	25	110	51	206	151	100	,	,	306	419	15	24
7-13	14,519	21,341	171	294	4	129	•	115	321	540	71	181	105	311	140	320	12	19	2,135	2,554	78	102
7-14	815	22,154	144	440	27	154	34	1\$1	207	747		101		311		320		1*		2,554		102
7-15	19,062	41,218	135	\$75	47	203	46	197	2.29	975		101		311	245	573		19		2,554		102
7-16	759	41,977	200	963 1,403	222 195	425 620	32 73	229	542	1,517 2,325	260	101	545	311 856	630	572 1,203	10	19 29	5,644	2,554 8,198	310	102 412
7-17 7-18	31,015 990	72,992 73,992	540 415	1,010	131	751	67	369	613	2,930	200	441		856	-	1,203		29	.,	0,196	210	412
				••												•						
7-19 7-20	19.036	73,962 93,818	983	1,010 2,701	127	751 070	100	369 477	1,110	2,978 4,056	243	441 684	647	1.503	2,425	1,203	26	29 ES	341 7,015	0,539 15,554	330	412 742
7-21	1,413	95,231	718	3,419	111	901	77	554	906	4,962		684		1,503	-,	3,628		55	463	16,017		742
7-22	12,020	107,251	734	4,153	456	1,445	266	820	1,456	6,418		684		1,503		3,628		55		16,017		742
7-24	10,401	117,632	1,406	5,439	102	1,547	91	711	1,479	0,097	935	1,619	2,507	4,010	1,027	4,655	87	142		16,017		742
7-25	13,700	131,252		5,439		1,547		911		0,097		1,619		4,010		4,655		142		16,017		742
7-26		140,175		5,639		1,547		911		8,097		1,619		4,010		4,655		142	1,013	17,030		742
7-27	14,191	162,346	900	6,539 7,531	176	1,723	265 295	1,176 1,571	1,341	9,438	600	2,307	1,465	5,475 5,475	1,264	5,919 5,919		142 142		17,030		742 742
7-20 7-29	13,026 11,010	175,342 187,202	792 310	7,849	103 124	1,906 2,030	263	1,954	825	11,633		2,307		8,475		5,910		142		17,030		742
		205.095	1.011	9,660	552	2,502	661	2,615	3,024	14,057		2,307		8,478		5,919		142		17,030		742
7-30 7-31	17,873	222,945	1,704	11,364	350	2,940	676	3,291	2,738	17,595	1,110	-	1,500		2,920	8,839	94	236	10,977	28,007	473	1,215
8-01	854	223,799	459	11,823	215	3,155	483	3,774	1,157	10,752		3,425		7,063	904	8,743		236	•	28,007		1,218
9-02	2,292	226,091	1,049	12,072	748	3,903	655	4,429	2,452	21,204		3,425		7,043	1,746	11,489		236		28,007		1,215
8-03	9,264	235,359	1,286	14,150	921	4,824	915	\$,344	3,122	24,326	654	4,061	\$75	7,636	741	12,230		236	6,864	34,071	540	1,755
F-04	433	235,792	809	14,967	840	\$,664	996	6,340	2,645	26,971		4,061		7,636	851	13,001		236		34,871		1,755
0-05	1,187	236,979	1,137	16,104	601	6,345	1,650	7,990	3,476	30,447		4,081		7,430	1,020	14,010		236		34,871		1,755
8-06	4,649	241,620	1,499	17,603	1,142	7,407	2,501	10,578	5,222	35,669		4,081		7,630	1,307	16,217		236		34,071		1,755
8-07	10,341	251,909	1,914	19,517	1,067	0,554	2,149 2,159	12,720	8,130	40,799	1,510		1,520		1,039	10,056	464	700 700	0,943	43,014	1,066	3,621
1-06	950	252,939	1,364	20,001	1,284	9,036	2,139	14,007	4,807	45,606		5,591		9,166	1,009	19,125		/00		43,814		3,621
4-10	4,274	257,213	1,550	22,439	994	10,432	1,836	16,723	4,386		1,064	6,455		10,061	692	19,817	136	836	•	\$1,300	2,127	5,748
0-14	2,809	260,022	4,331	26,770	1,271	12,103	1,482	18,205	7,004	57,070	1,635	8,490		10,787		20,707	258	1,095		57,400	2,494	0,242
0-17 0-19	3,350 116	263,3 0 0 263,496		26,770 26,770		12,163 12,103		18,205		\$7,078 \$7,078	1,459	9,948	310	11,107		21,489	105	1,200		59,967 63,383	2,799 3,932	11,041
8-21	1,497	264,993		26,770		12,103		10,205				12,716		11,107		22,448	1,625	•		64,521		
8-24	25	265,010		26,770		12,103		18,205		\$7,070	101	12,617		11,107	74	22,472	646	3,551	1,160	65,649	***	16,814
8-26	402	265,420		26,770		12,103		10,205		57,078		13,620	12	11,139		22,012		3,551		4,43		
J-20	_	265,420		26,770		12,103		10,205		57,078	-10	14,436		11,166		23,106	739	4,290		67,065		20,532
0-31		265,420		26,770		12,103		16,205		57,078		14,752		11,166	21	23,127	399	4,609		67,268		21,117
9-02		265,420		26,770		12,103		10,205		\$7,078	320	15,072		11,166		23,127		4,689	280	67,548	770	21,007
9-04		245,420		26,770		12,103		10,205		57,078	322			11,166		23,127	243	4,932		67,916		22,707
9-07		265,420		26,770		12,103		18,205		57,070	374			11,166		23,127		4,932		60,113		22,920
9-09 9-11		265,420 265,420		26,770 26,770		12,103 12,103		18,205		57,078 57,078	187 27	15,985		11,166		23,127 23,127		4,932 4,832		60,130 60,150	47	22,967 22,967
9-14		265,420		26,770		12,103		10,205		57,078		16,055		11,166		23,127		4,932	41	60,159	,	22,967
												,				,				,	,	_,,,,

Table 6. Commercial pink salmon catch by area and date, Upper Cook Inlet, 1992.

	D	RIFT				EAST SIDE	E SET MET															
	925	luding																	HORT	HERM D19	TRICT S	ETHET
	CHI	HETHA	SAL	AMATOF	K-1	EACH	COHOE/	MINILCHIK	1	TOTAL '	MEST	\$10E	KUS T	MATA	**	LEIN	CHI	ITHA		T \$10E		T SIG
ate	Daily	Cum	Daily	Cum.	Daily	0.00	Delly	-	Daily	-	Daily	Cum	Daily	C.m	Daily	- 0.00	Daily	Cum	De11;	y Cum	De11	y c
-25																						
-29																						
-01 -05																						
-08													6									
													_	-								
- 15														•								
- 19											1	1		6								
-22											2	3		•								
-26	25	25									s	•		6	5	5			5	5	3	
-29	71	96									5	13		•	•	•	1	ı	2	,	1	
					_	_								_		_						
- 30	206	99 385	,	,	2 13	2 15	10 15	10 25	12 35	12 47	12	13 25		•	2	10	,	4	2	,	•	
-03 -06	1,243	1,628	26	33	11	26	16	41	ສ	100	13	25	2	:	5	15	•	•	•	10	24	
-10	2,395	4,023	357	390	69	95	177	218	603	703	17	55	•		25	40	16	24	60	78	150	
-13	16,457	20,400	964	1,258	61	164	406	624	1,343	2,046	12	6.7		•	25	75	5	29	290	476	256	
	- • -																					
- 14	1,320	21,000	764	2,022	05	249	696	1,320	1,545	3,591		47		•		75		29		476		
	23,137	44 ,937	407	2,429	03	332	746	2,066	1,236	4,627		67		•	49	124		29		476		
- 16	1,684	46,621	1,035	3,464	162	494	778	2,844	1,975	6,902		67				124		29		476		
	50,017	97,436	1,441	4,925	170	***	697	3,541	2,320	9,130	31	90	4	12	94	210	4	33	3,097	4,373	2,870	3
- 16	3,417	100,055	1,494	6,419	101	845	967	4,408	2,542	11,672		90		12		210		33		4,373		3,
- 19		100.855		6,419		845		4,408		11,672		94		12		210		33	17	4,390		Э,
	\$7.093	157-948	1,962	8,361	259	1,104	636	5,044	2,857	14,529	25	123	54	66	1,349	1,547		39	5,632	10,222	1,358	4,
-21	5,039	162,987	3,705	12,006	236	1,342	623	5,647	4,564	19,095		123	_	66	.,,,,,,	1,547	•	39	47	10,269	.,	4,
	57,822	226,809	3,351	15,437	**	1,431	1,043	6.710	4,483	23,570		123		66		1,547		39	-	10,269		4,
	17,635	236,444	2,681	18,110	199	1,630	631	7,341	3,511	27,000	42	165	,	75	117	1,694	22	61		10,269		4,
																				-		
-25	16,087	254,531		10,110		1,630		7,341		27,009		165		75		1,684		61		10,269		4,
-26	27,559	282,090		10,110		1,630		7,341		27,009		165		75		1,694		61	509	10,770		4,
-27	22,443	204,533	1,185	19,303	453	2,003	1,316	0,657	2,954	30,043	44	233	14	89	103	1,787		61		10,778		4,
-28	19,901	324,434	1,618	20,921	681	2,772	2,547	11,204	4,854	24,897		233		89		1,767		61		10,770		4,
-29	10,513	334,947	1,335	22,256	1,200	3,972	2,596	13,799	5,130	40,027		233		**		1,787		€1		10,778		4
7-36	9.374	344.321	2,327	24,593	1,415	5,367	2,395	16,194	6,137	46,164		233		**		1,787		61		10,778		
7-30 7-31	9,374	357,535	3,123	27,706	2,559	7,946	2,605	10,799	0,287	54,451	54	209	14	103	162	1,969	4	65	3,309	14,167	275	4,
1-01 -11	1,500	357,035	2,834	30,540	2,617	10,563	3,057	21,856	a,50s	62,959	~	209		103	74	2,043	•	45	3,300	14,167	2/2	4,
-02	3,245	362,280	4,364	34,904	6,595	17,158	2,593		13,552	76,511		209		103	261	2,304		65		14,167		4,
1-03	12,010	374,290	5,109	40,093	4,300	23,458	4,267	20,716		92,267	13	302		109	94	2,390		65	1,413	15,500	96	5
8-04	1,965	376,275	6,807	46,900	6,130	29,500	5,066	34,582	10,003	111,070		302		109	99	2,497		45		15,580		5
-05	0,103	394,378	7,436	54 , 336	7,541	37,129		44,799		136,264		302		109	109	2,696		65		15,500		5,
- 06	14,839	399,217	6,430	60,766	6,091	44,020		55,762		160,548		302		109	91	2,777		65		15,500		5,
-07	11,716	411,135	4,540	65,314	7,109	51,129	7,264	63,026		179,469	36	340	•	117	55	2,632	10	75	1,097		370	
-08	3,168	414,303	3,623	64,937	10,462	61,591	13,061	74,067	27,146	206,615		340		117	53	2,005		75		16,677		5,
			4 774	17 66.		47 5			21 825	220.535	47			129	90	2,975		83	339			
1-10 1-14	7,034 1,730	421,337 423,067	4,730 9,279	73,667 82,946	5,948 3,772	67,539 71,311	11,242		21,920 15,533	244,060	73	387 460	12	136	103	3,078	÷	e.,	203	17,016	160 317	5, 5,
1-14 1-17	614	423,661	7,2/7	82,946	-,//4	71,311	., 102	07,011	,333	244,068	57	517	3	139	127	3,205		94	203	17,219	94	5
-19		423,601		82,946		71,311		09,011		244,068	46	563	-	139	79	3,204	-	94	85	17,364	205	٠.
1-21	46	423,727		82,946		71,311		09,011		244,068	40	603		129	72	3,256	11	105		17,379	67	
								•		•										J •		_
-24	2	423,729		82,546		71,311		09 ,011		244,068	3	606		139	1	3,357	5	110	32	17,411	24	•
-26		423,732		82,946		71,311		89,011		244,068	4	610		139	•	3,366		110	•	17,419	60	
1-20		423,732		82,946		71,311		09,011		244,068	,	613		139	4	3,370	4	114		17,419	15	
-31		423,732		82,946		71,311		09,011		244,068	1	614		139		3,370		114		17.419	10	
- 02		423,732		82,946		71,311		89.0 11		244,068	3	617		139		3,370		114		17,419	•	•
		455								***	_					,						_
9.04		423,732		82,946 82,946		71,311 71, 3 11		89,811 89,811		244,068 244,068	2 5	619 624		139		3,370 3,370		114		17,419	1	
9-07 9-09		423,732 423,732		82,946		71,311		89,811 89,811		244,068	2	626		139		3,370		114		17,419	1	6
9-11		423,732		E2,946		71,311		89,011		244,060	2	420		139		3,370		114		17,419		•
9-14		423,732		82,946		71,311		89,811		244,068	3	631		139		3,370		114		17,419		6

Table 7. Commercial chum salmon catch by area and date, Upper Cook Inlet, 1992.

		RIFT				SOLE TEN	SETMET															
		luding																	MORT	HERM DEST	RICT S	ETMET
	CHI	HITMA	SAL	MATOF	K-BE	ACH	COHOE/NI	MILCHIK	T	DTAL	VES	T SIDE	10.51	MATA	•	ALGIM	CHI	MITMA	VES	T \$10E	EAS	T 510
te	Daily	Cum	Daily	Comm	Daily	Cum	Daily	0-	Daily	-	Del1	y 0-	Daily	-	De11;	, c-	De11	y 0=	De11;	y Com	Dail:	у 0
_													-									
25										•												
29																						
01																						
-05													_	_								
-00													2	2							17	
-15					•									2								
-19														2								
22											26	26		2								
26	299	299									2	20		2	_	_					4	
-25	333	632									1	29		2	2	2	1	1	1	1	2	
- 30	10	650										29		2		2		1		1		
83	2,439	3,009	2	2					2	2		29		2		2	2	3	2	3	•	
-04	5,075	0,164	2	4					2	4	4	33		2		2	•	12	15	10	2	
10	4,200	12,444	31	25		_	23	23	54	50	20	61		2	2	4	31	43	119	137	2	
- 13	14,933	27,377	11	46	2	2	•	22	22	**	24	85		2	5	•	15	54	231	464	34	
. 14	679	28,054	10	54	5	7	6	34	21	101		es		2		•		54		460		
- 15	20,249	48,305	14	70		7	4	42	10	119		85		2	2	11		54		468		
- 16	461	48,766	19	99	1		2	44	22	141		25		2		11		50		468		
	22,630	71,404	21	110	,	13 20	6	50 51	32 34	173	207	392 392	1	,	30	49 49		146	1,402	1,870	28	
-10	522	71,926	26	136	,	20	•	31	,,,	20/		792		•		49		144		1,870		
. 19		71,926		136		20		Sì		207		392		3		49		146	129	1,999		
50	17,659	07,505	141	277	5	25	•	60	155	362	257	649	•	11	653	902	134	290	2,949	4,946	60	
-21	935	90,520	84	361	3	24	17	77	104	466		649		11		902		200	251	5,199		
-22 -24	16,073	106,593 111,559	62 87	423 \$10	2	30 32	79 4	156 160	143	609 702	•11	1,460		11 11	23	902 935	163	280 443		5,199 5,199		
- 24	4,504	111,339	•/	310	•		•		***	/	•			••		733	163			-,177		
-25	0,001	120,440		510		32		160		702		1,460		11		935		443		5,199		
-26	17,197	137,637		\$10		32		160		702		1,460		11		935		443	909	6,100		
-27	16,852	154,409	40	\$50		32	16	176	54	754	1,000	2,540	•	17	221	1,156		443		6,100		
	17,900	172,477	171 39	721 760	•	38 41	16 15	192	193 57	951 1,008		2,540 2,540		17 17		1,156		443 443		6,100 6,100		
- 27	10,0/6	164,333	.,,	/60	•	••	.,	20,	•	1,000		2,		•		1,130				•,104		
- 30	10,073	192,626	122	962	10	51	•	213	138	1,146		2,540		17		1,154		443		6,100		
-31	11,555	204,181	40	922		54	,	216	51	1,197	407	2,947		17	220	1,376	851	1,294	2,952	9,060	46	
-01	1,095	205,276	19	941	2	41	1	217	22	1,219		2,947		17	63	1,439		1,294		9,040		
-02 -03	2,249 8,838	207,525	79 150	1,020	9 12	70 82	6 19	223 242	94 189	1,313	201	2,947 3,148		17 23	454 99	1,093		1,294		9,060	49	
-0,	*,*	216,363	150	1,1/4		•••	1.0	2-2		1,504	201	3,140	•		**	1,002		1,25	2,219	11,279	**	
-04	200	216,643	47	1,225	6	•	19	261	72	1,574		3,146		23	209	2,192		1,294		11,279		
-05	965	217,500	34	1,259	,	95	17	278	50	1,632		3,146		23	390	2,591		1,294		11,279		
-04	4,627	222,135	•1	1,340	•	103	76	354	165	1,797		3,144		23	101	2,612		1,294		11,279		
.07	4,482 875	226,617	525	1,045	10 37	12 1 150	48	416 464	605 208	2,402	755	3,903	22	55 55	29)	2,985 3,083	313	1,607	3,275	14,554	127	
-08	875	227,492	123	1,900	47	134	45	464	400	2,610		3,903		23	-	3,043		1,607		14,554		
- 10	3,931	231,423	121	2,109	13	171	so	\$14	184	2,794	399	4,302	44	99	170	3,253	419	2,026	2,242	16,796	127	
- 14	401	231,824	23	2,162	4	175	16	\$30	73	2,067	720	5,022	25	124	41	3,294		2,411		21,203	LOS	
- 17	478	232,302		2,162		175		530		2,067	345	5,407	,	131	92	3,304	507	2,918		22,515	43	
-19 -21	12	232,314		2,162		175		530		2,847	199	5,606		131	126	3,512		2,918		23,667	28	
-21	390	232,764		2,162		175		\$30		2,847	337	5,943		131	64	3,540	310	3,220	344	24,033	69	
-24		232,704		2,162		175		530		2,967	71	6,014		131	5	3,585	169	2,397	136	24,169	64	
-24	1	232,705		2,162		175		530		2,067	21	6,035		131	16	3,601		3,397		24,259	90	
-28		232,705		2,162		175		530		2,067	77	6,112		131	14	3,615		3 ,532	33	24,292	47	
-31		232,705		2,162		175		530		2,967	,	6,119		131		3,615	27	3,559		24,292	1	
02		232,705		2,162		175		530		2,967	1	6,120		131		3,615		3,559		24,292	4	
-04		232,705		2,162		175		530		2,967		6,120		131		3,615	3	3,562		24,292	10	ı
-07		232,705		2,162		175		530		2,967	1	6,121		131		3,615	_	3,562		24,292		1,
-09		232,705		2,162		175		\$30		2,867		6,121		131		3,615		3,542		24,292		1.
- 11		232,705		2,162		175		530		2,867		4,121		131		3,615		3,542		24,292		1,
. 14		232,705		2,162		175		230		2,867	1	4,122		131		3,615		3,562		24,292		1

Table 8	Table 8. Commercial catch by gear, statistical area and species, Upper Cook Inlet, 1992.									
Gear	District	Subdistrict	Stat Area	Permits	Chinook	Sockeye	Coho	Pink	Chum	Total
Drift	Central	All	ALL	581	615	6,069,495	267,300	423,738	232,955	6,994,103
Set Net	Central	Upper	244-21	100	1,996	144,173	7,308	29,941	116	183,534
		[.	244-22	120	2,382	660,580	10,897	59,870	414	734,143
			244-30	186	3,994	962,640	12,103	71,311	175	1,050,223
			244-40	142	2,346	1,070,683	26,770	82,946	2,162	1,184,907
			All	449	10,718	2,838,076	57,078	244,068	2,867	3,152,807
		Kalgin Is.	246-10	22	42	59,332	15,839	2,650	2,877	80,740
			246-20	10	23	34,157	7,288	720	738	42,926
			All	31	65	93,489	23,127	3,370	3,615	123,666
		Chinitna	245-10	4	3	982	3,052	108	3,312	7,457
	ĺ	Western	245-20	11	10	3,551	5,667	140	359	9,727
			245-30	32	170	14,289	5,777	317	4,763	25,316
			245-40	12	68	8,622	4,375	174	926	14,165
			245-50	6	5	718	236	0	74	1,033
	ł		All	52	253	27,180	16,055	631	6,122	50,241
	ļ	Kustatan	245-55	47	938	4,598	5,718	18	11	11,283
			245-60	10	25	5,042	5,448	121	120	10,756
			ALL	50	963	9,640	11,166	139	131	22,039
		All	All	529	12,002	2,969,367	110,478	248,316	16,047	3,356,210
	Northern	General	247-10	59	1,670	6,037	7,702	932	1,217	17,558
	ļ		247-20	32	800	6,837	12,786	1,484	3,150	25,057
			247-30	40	895	15,791	25,847	9,345	12,285	64,163
			247-41	10	233	2,256	3,659	847	1,217	8,212
			247-42	16	19	5,624	6,000	1,624	2,288	15,555
			247-43	10	191	6,731	10,348	2,614	2,846	22,730
	[247-50	24	0	10,748	1,817	573	1,289	14,427
			ALL	146	3,808	54,024	68,159	17,419	24,292	167,702
		Eastern	247-70	26	388	7,728	9,304	3,951	832	22,203
			247-80	12	150	2,956	6,701	1,527	134	11,468
			247-90	14	208	4,770	6,969	908	43	12,898
			All	47	746	15,454	T	6,386	1,009	46,569
		ALL	All	186	4,554	69,478	91,133	23,805	25,301	214,271
	All	All	All	639	16,556	3,038,845	201,611	272,121	41,348	3,570,481
Seine	All	All	All		0	0	0	0	0	0
All	ALL	All	All	1,220	17,171	9,108,340	468,911	695,859	274,303	10,564,584

Gear	District	Subdistrict	Stat Area	Permits	Chinook	Sockeye	Caho	Pink	Chuse	Total
Drift	Central	ALL	Ali	581	1	10,447	460	729	401	12,038
Set Net	Central	Upper	244-21	100	20	1,442	73	299	1	1,835
		**	244-22	120	20	5,505	91	499	3	6,118
			244-30	186	21	5,175	65	383	1	5,646
			244-40	142	17	7,540	189	584	15	8,344
			All	449	24	6,321	127	544	6	7,022
		Kalgin Is.	246-10	22	2	2,697	720	120	131	3,670
			246-20	10	2	3,416	729	72	74	4,293
			All	31	2	3,016	746	109	117	3,989
		Chinitne	245-10	4	1	246	763	27	828	1,864
		Western	245-20	11	1	323	515	13	33	884
			245-30	32	5	447	181	10	149	791
	!	•	245-40	12	6	719	365	15	77	1,180
			245-50	6	1	120	39	0	12	172
			All	52	5	523	309	12	118	966
		Kustatan	245-55	47	20	98	122	0	0	240
	1 .		245-60	10	3	504	545	12	12	1,076
	1		All	50	19	193	223	3	3	441
		All	All	529	23	5,613	209	469	30	6,344
	Northern	General	247-10	59	28	102	131	16	21	298
			247-20	32	25	214	400	46	98	783
			247-30	40	22	395	646	234	307	1,604
			247-41	10	23	226	366	85	122	821
		1	247-42	16	1	352	375	102	143	972
			247-43	10	19	673	1,035	261	285	2,273
	l		247-50	24	0	448	76	24	54	601
			All	146	26	370	467	119	166	1,149
		Eastern	247-70	26	15	297	358	152	32	854
	1		247-80	12	13	246	558	127	11	956
			247-90	14	15	341	498	65	3	921
	1		All	47	16	329	489	136	21	991
		All	All	186	24	374	490	128	136	1,152
	ALL	ALL	All	639	26	4,756	316	426	65	5,588
Seine	All	All	All		0	0	0	0	0	0
ALL	ALL	ALL	All	1,220	14	7,466	384	570	225	8,659

Table 10. Commercial fishery emergency orders issued during the 1992 Upper Cook Inlet season.

Emergency Order No.	Effective Date	Action	Reason
2S-01- 92	Mar. 19	Closed herring fishing in the Western and Lower Subdistricts for the entire 1992 fishing season.	depressed Tuxedni Bay
2S-02-92	May 7	Amended closed waters areas in the Big River fishery and reduced fishing time from three days per week to two.	To provide for more enforceable boundaries and a d j u s t f i s h e r y effectiveness.
2S-03-92	May 31	Closed all waters of Upper Cook Inlet to herring fishing at noon, May 31.	Poor and declining catches in remaining open areas.
2S-0 4-92	June 10	Closed the Big River sockeye salmon fishery.	Chinook salmon quota of 1,000 fish had been reached.
2S-05-92	June 19	Closed the Northern District chinook salmon fishery for the final regular period scheduled for June 22.	Weak returns of chinook salmon in many Northern District streams.
2S-06-92	June 30	Opened set gillnetting in the Upper Subdistrict south of the Blanchard Line and drift gillnetting south of the Blanchard Line within 3 miles of shore on June 30 from 7:00 am to 7:00 pm.	Reduce the rate of sockeye salmon escapement into the Kasilof River.
2S-07-92	July 13		Reduce the rate of sockeye salmon escapement into the Kenai and Kasilof Rivers.

Table 10. (Page 2 of 6.)

			*
Emergency Order No.	Effective Date	Action	Reason
2S-08-92	July 15	Opened setnetting in the Upper and Kalgin Island Subdistricts on 7/15 from 7:00 am to 7:00 pm. Opened drift gillnetting south of a line from Colliers Dock to Light Point on Kalgin Island on 7/15 from 7:00 am to 7:00 pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers.
2S-09-92	July 15	Opened setnetting in the Upper Subdistrict from 7:00 pm July 15 until 7:00 am July 17. Opened drift gillnetting south of Colliers Dock and within 3 miles of shore on 7/15 from 7:00 pm to 10:00 pm, on 7/16 from 5:00 am to 10:00 pm and on 7/17 from 5:00 am to 7:00 am.	
2S-10-92	July 17	Opened set gillnetting in the Upper Subdistrict from 7:00 pm 7/17 until 10:00 pm 7/18. Opened drift gillnetting south of Colliers Dock and within 3 miles of shore on 7/17 from 7:00 pm to 10:00 pm and 7/18 from 5:00 am to 10:00 pm.	Reduce the rate of escapement of sockeye salmon in the Kenai and Kasilof Rivers.
2S-11-92	July 20	Opened set gillnetting in the Upper Subdistrict from 7:00 pm 7/20 until 11:00 pm 7/21. Opened drift gillnetting south of Colliers Dock and within 3 miles of shore on 7/20 from 7:00 pm to 10:00 pm and on 7/21 from 5:00 am to 10:00 pm.	Reduce the rate of escapement of sockeye salmon in the Kenai and Kasilof Rivers.

Table 10. (Page 3 of 6.)

Emergency Order No.		Action	Reason
2S-12-92	July 21	Opened set gillnetting in the Upper Subdistrict from 11:00 pm 7/21 until 11:00 pm 7/22. Opened drift gillnetting south of Colliers and within 8 miles of shore on 7/22 from 5:00 am to 10:00 pm.	Reduce the rate of sockeye salmon escapement in the Kenai and Kasilof Rivers.
2S-13-92	July 24	Closed set gillnetting in the Northern District and drifting in the Central District except that portion south of Colliers and within 8 miles of shore for the regular period on 7/24.	rate of sockeye salmon bound
2S-14-92	July 25	Opened drifting south of Colliers and from 3 to 8 miles from shore on 7/25 from 5:00 am until 10:00 pm.	Increase the exploitation of sockeye salmon stocks bound for the Kenai and Kasilof Rivers.
2S-15-92	July 26	Opened drifting south of Colliers and from 3-8 miles from shore on 7/26 from 5:00 am to 10:00 pm.	Increase the exploitation of sockeye salmon stocks bound for the Kasilof and Kenai Rivers.
2S-16-92	July 27	Closed set gillnetting in the Northern District and drifting in the Central District except that portion south of Colliers and within 8 miles of shore for the regular period on 7/27.	Reduce the exploitation of sockeye salmon bound for the Susitna River.
2S-17-92	July 27	Opened setnetting in the Upper Subdistrict from 7:00 pm 7/27 until 10:00 P.M. 7/28. Opened drifting south of Colliers Dock within 8 miles of shore from 7:00 pm to 10:00 pm 7/27 and from 5:00 am to 10:00 pm 7/28.	Increase the harvest rate of sockeye salmon returning to the Kasilof River and the Kenai River.

Table 10. (Page 4 of 6.)

Emergency Order No.		Action	Reason
2S-18-92	July 28	Opened setnetting Upper Subdistrict from 10:00 pm 7/28 until 10:00 pm 7/29. Opened driftnetting south of Colliers Dock within 8 miles of shore from on 7/28 from 5:00 am to 10:00 pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers.
28-19-92	July 29	Opened setnetting in the Upper Subdistrict from 10:00 pm 7/29 until 7:00 am 7/31. Opened drifting south of Colliers Dock and within 8 miles of shore on 7/30 from 6:00 am to 10:00 pm and on 7/31 from 6:00 am to 7:00 am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers.
2S-2 0-92	July 31	Opened setnetting in the Upper and Kalgin Island Subdistricts from 7:00 pm 7/31 until 7:00 am 8/3. Opened drifting south of Colliers Dock and within 8 miles of shore on 7/31 from 7:00 pm to 10:00 pm, on 8/1 from 6:00 am to 10:00 pm, on 8/2 from 6:00 am to 10:00 pm and on 8/3 from 6:00 am to 7:00 am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers and Packers Creek.
2S-21-92	Aug. 3	Opened setnetting in the Upper and Kalgin Island Subdistricts from 7:00 pm 8/3 until 11:00 pm 8/4. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/3 from 7:00 pm to 10:00 pm and 8/4 from 6:00 am to 10:00 pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers and Packers Creek.

Table 10. (Page 5 of 6.)

Emergency Order No.	Effective Date	Action	Reason
2S-22-92	Aug. 4	Opened setnetting in the Upper and Kalgin Island Subdistricts from 11:00 pm 8/4 until 11:00 8/5. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/5 from 6:00 am to 10:00 pm.	Increase the exploitation of Kenai and Kasilof River and Packers Creek sockeye salmon.
2S-23-92	Aug.5	Opened set gillnetting in the Upper and Kalgin Island Subdistricts from 11:00 pm 8/5 until 7:00 am 8/7. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/6 from 6:00 am to 10:00 pm and on 8/7 from 6:00 am to 7:00 am.	Increase the exploitation of sockeye salmon bound for the Kenai and Kasilof River and Packers Creek.
2S-24-92	Aug. 7	Opened set gillnetting in the Upper and Kalgin Island Subdistricts from 7:00 pm 8/7 until 10:00 pm 8/8. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/7 from 7:00 pm to 10:00 pm and 8/8 from 6:00 am to 10:00 pm.	Increase the exploitation rate of sockeye salmon bound for the Kenai and Kasilof River and Packers Creek.
2S-25-92	Aug. 19	Opened setnetting in all areas except the Chinitna Bay and Upper Subdistricts and drifting in all areas except the Chinitna Bay Subdistrict or within 5 miles of the eastern shoreline each Wednesday from 7:00 am to 7:00 pm for the remainder of the season.	Generally above-average returns of coho salmon to many Cook Inlet streams.

Table 10. (Page 6 of 6.)

Emergency Order No.		Action	Reason				
28-26-92	Aug. 21	Subdistrict to drifting and	Escapement of chum salmon in Chinitna Bay streams had reached desired levels.				

Table 11. Commercial salmon fishing periods, Upper Cook Inlet, 1992.

Date	Day	Time	Set Gillnet	Drift Gillnet
May 25	Mon	0700-1900	Big River Area	
May 29	Fri	0700-1900	Big River Area	
June 1	Mon	0700-1300 1300-1900	Northern District, Big River Big River Area	
June 5	Fri	0700-1900	Big River Area	
June 8	Mon	0700-1300 1300-1900	Northern District, Big River Big River Area	
June 15	Mon	0700-1300	Northern District	
June 19	Fri	0700-1900	Western	
June 22	Mon	0700-1900	Western	
June 26	Fri	0700-1900	All except Upper Subdistrict	All
June 29	Mon	0700-1900	All except Upper Subdistrict	All
June 30	Tue	0700-1900	Upper south of mid K-Beach	South of Blanchard Line within 3 mi.
July 3	Fri	0700-1900	ALL	All
July 6	Mon	0700-1900	ALL	All
July 10	Fri	0700-1900	ALL	All
July 13	Mon	0700-1900 1900-2200	All Upper	All Upper s. of Colliers within 3 mi.
		2200-2400	Upper	within 5 mi.
July 14	Tue	0000-0500 0500-2200	Upper Upper	Upper s. of Colliers within 3 mi.
July 15	Wed	0700-1900	Upper, Kalgin	S. of Colliers to North
		1900-2200	Upper	Kalgin Upper s. of Colliers
		2200-2400	Upper	within 3 mi.
July 16	Thur	0000-0500 0500-2200	Upper Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	within 5 mi.
July 17	Fri	0000-0500 0500-0700	Upper Upper	Upper s. of Colliers within 3 mi.
		0 700-1900 1900-2200	All Upper	All Upper s. of Colliers within 3 mi.
		2200-2400	Upper	WICHIN D MI.
July 18	Sat	0000-0500 0500-2200	Upper Upper	Upper s. of Colliers within 3 mi.
July 19	Sun	0700-1900	Knik Arm	

Table 11. (Page 2 of 3).

Date	Day	Time	Set Gillnet	Drift Gillnet
July 20	Mon	0700-1900 1900-2200	All Upper	All Upper s. of Colliers within 3 mi.
		2200-2400	Upper	within 5 mi.
uly 21	Tues	0000-0500 0500-0700	Upper Upper	Upper s. of Colliers within 3 mi.
		0700-1900	Upper, Knik Arm	Upper s. of Colliers within 3 mi.
		1900-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
uly 22	Wed	0000-0500 0500-2200	Upper	South of Colliers within 8 m
		2200-2300	Upper Upper	South of Colliers Within 8 mi
uly 24	Fri	0700-1900	All except Northern	South of Colliers within 8 m
uly 25	Sat	0500-2200		South of Colliers from 3-8 mi
uly 26	Sun	0500-0700		South of Colliers from 3-8 m
		0700-1900 1900-2200	Knik Arm	South of Colliers from 3-8 m South of Colliers from 3-8 m
uly 27	Mon	0700-1900	All except Northern	South of Colliers within 8 m
		1900-2200 2200-2400	Upper Upper	South of Colliers within 8 m
uly 28	Tue	0000-0500	Upper	
		0500-2200 2200-2400	Upper Upper	South of Colliers within 8 mi
uly 29	Wed	0000-0500	Upper	South of Colliers within 8 m
		0500-2200 2200-2400	Upper Upper	South of Colliers within 8 m
uly 30	Thur	0000-0600	Upper	
		0600-2200 2200-2400	Upper Upper	South of Colliers within 8 m
uly 31	Fri	0000-0600	Upper	County of Calling wintin Co
		0600-0700 0700-1900	Upper All	South of Colliers within 8 m All except Chinitna
		1900-2200	Upper, Kalgin	South of Colliers within 8 m
		2200-2400	Upper, Kalgin	
ug 1	Sat	0000-0600 0600-2200	Upper, Kalgin	South of Colliers within 8 m
		2200-2400	Upper, Kalgin Upper, Kalgin	south of Cottlers within 6 m
ug 2	Sun	0000-0600	Upper, Kalgin	Cough of Collin - white C
		0600-2200 2200-2400	Upper, Kalgin Upper, Kalgin	South of Colliers within 8 m
ug 3	Mon	0000-0600	Upper, Kalgin	on the second second second
		0600-0700 0700-1900	Upper, Kalgin All	South of Colliers within 8 m All except Chinitna
		1900-2200	Upper, Kalgin	Upper s. of Colliers within 3 m
		2200-2400	Upper, Kalgin	

Table II. (Page 3 of 3).

Date	Day	Tîme	Set Gillnet	Drift Gillnet
Aug 4	Tue	0000-0600	Upper, Kalgin	
		0600-2200 2200-2400	Upper, Kalgin Upper, Kalgin	Upper s. of Colliers within 3 mi.
Aug 5	Wed	0000-0600	Upper, Kalgin	
	-	. 0600-2200 2200-2400	Upper, Kalgin Upper, Kalgin	Upper s. of Colliers within 3 mi.
Aug 6	Thur	0000-0600	Upper, Kalgin	
		0600-2200 2200-2400	Upper, Kalgin Upper, Kalgin	South of Colliers within 8 mi.
Aug 7	Fri	0000-0600	Upper, Kalgin	
		0600-0700 0700-1900	Upper, Kalgin All	South of Colliers within 8 mi. All except Chinitne
		1900-2200	Upper, Kalgin	South of Colliers within 8 mi.
		2200-2400	Upper, Kalgin	
Aug 8	Sat	0000-0600 0600-2200	Upper, Kalgin	South of Colliers within 8 mi.
		0800-2200	Upper, Kalgin	south or cottlers within a mi.
Aug 9	Mon	0700-1900	ALL	All except Chinitne
Aug 14	Fri	0700-1900	All	All except Chinitna
Aug 17	Mon	0700-1900	All except Upper	All except Chinitna or within 5 miles of Kenai Peninsula
Aug 19	Wed	0700-1900	All except Chinitna or Upper	All except Chinitna or within 5 miles of Kenai Peninsula
Aug 21	Fri	0700-1900	All except Upper	All except w/i 5 mi of Kenai Pen.
Aug 24	Mon	0700-1900	All except Upper	All except w/i 5 mi of Kenai Pen.
Aug 26	Wed	0700-1900	All except Chinitna or Upper	All except Chinitna or within 5 miles of Kenai Peninsula
Aug 28	Fri	0700-1900	All except Upper	All except w/i 5 mi of Kenai Pen.

Fishing continued each Monday, Wednesday and Friday as described for 8/24-8/28 for the remainder of the year.

Table 12. Buyers and processors of Upper Cook Inlet fishery products, 1992.

Buyer/Processor	Plant Site	Contact	Address		
Alaska Gourmet F0403-5	Anchorage	Paul Schilling	P.O. Box 190733 Anchorage Ak. 99519		
Carlson Seafoods F1232-6	Kasilof	Dorius Carlson	HC2 Box 544 Kasilof Ak. 99610		
Cook Inlet Processing F0186-3	Kenai	Pat Hardina	Box 8163 Nikiski Ak. 99635		
Cook Inlet Processing F1155-2	Kenai	Pat Hardina	Box 8163 Nikiski Ak. 99635		
D & G Enterprises F1070-0	Eagle River	Ken Duffus	P.O. Box 773435 Eagle River Ak. 9957		
Deep Creek Custom Packing F1051-5	Ninilchik	Jeff Berger	P.O. Box 39229 Ninilchik Ak. 99639		
Dragnet Fisheries F0030-4	Kenai	Mike Mccune	P.O. Box 1260 Kenai Ak. 99615		
Ed's Kasilof Seafoods F1505-4	Kasilof	James Trujillo	P.O. Box 18 Kasilof Ak. 99610		
Fishhawk Fisheries F1540-1	Kenai	Steve Frick	P.O. Box 715 Astoria Or. 97103		
Icicle Seafoods F0133-0	Homer	Thomas King	P.O. Box 79003 Seattle Wa. 98119		
Icicle Seafoods F0135-2	Seward	Thomas King	P.O. Box 79003 Seattle Wa. 98119		
Icicle Seafoods F1142-1	Homer, Seward	Thomas King	P.O. Box 79003 Seattle Wa. 98119		
Inlet Fisheries Inc. F1085-3	Soldotna	Patrick Klier	P.O. Box 530 Kenai Ak. 99611		
Inlet Fisheries Inc. F1039-7	Soldotna	Patrick Klier	P.O. Box 530 Kenai Ak. 99611		
Int'l Seafoods of Ak. F0021-7	Kodiak	Ted Casten	2360 W. Commodore Seattle Wa. 98199		
J.D. Ventures 10788	Wasilla	Jack Schultheis	H.C. 30 Box 5428 Wasilla Ak. 99687		
Kachemak Fisheries F1274-0	Homer	Mark Mahan	P.O. Box 676 Homer Ak. 99603		
Keener Packing F0394-5	Kasilof	Mike Sawinski	P.O. Box 890 Kenai Ak. 99611		
Kenai Custom Seafoods F1182-3	Kenai	James Hill	P.O. Box 1649 Kenai Ak. 99611		
Kenai Packers F0361-8	Kenai	Dan Foley	P.O. Box 31179 Seattle Wa. 98103		
King Crab Inc. F1452-8	Kodiak	Mike Robison	P.O. Box C-70739 Seattle Wa. 98107		
Pacific Alaska Seafoods F0130-7	Nikiski	Jerry Cartee	P.O. Box 7498 Nikiski Ak. 99635		

Table 12. (p. 2 of 2)

Buyer/Processor	Plant Site	Contact	Address		
Pacific Gold Seafoods F1512-9	Kenai	Corry Potter	1990 Long Leaf Court Santa Rosa Ca. 90000		
Phoenix Fisheries Inc. F0597-4	Anchorage	Perry Hendricks	18444 4th Ave.S.W. Seattle Wa. 98166		
Prime Alaska Seafoods F1113-8	Anchorage	Jack McLean	6135 Mike St. Anchorage Ak. 99518		
R & J Enterprises F0838-6	Anchorage	Juanita Meier	4821 E. 101 St. Anchorage Ak. 99516		
Royal Pacific Fisheries F0409-1	Kenai	Marvin Dragseth	P.O. Box 4609 Kenai Ak. 99611		
Salamatof Seafoods F0037-1	Kenai	Wylie Reed	P.O. Box 5070 Kenai Ak. 99615		
Samer-I Sea Foods F1168-3	Homer	Homer Ireland	Box 1017 Homer Ak. 99603		
Sea Hawk Seafoods F0223-5	Valdez	Lasetta Montgomery	P.O. Box 151 Valdez Ak. 99686		
Seasonal Seafoods F0998-7	Kasilof	Baily Wharton	4039 21st Ave. Seattle Wa. 98199		
Silvertip Fish 53832	Anchorage	Darrell Renner	P.O. Box 140414 Anchorage Ak. 99514		
Snug Harbor Seafoods F1302-5	Kenai	Paul Dale	Box 701 Kenai Ak. 99611		
Trans Aqua Int'l F1193-2	Kasilof	Taka Iwasaki	One Union Sq. #2800 Seattle Wa. 981101		
Wards Cove Packing F0270-2	Kenai	Ray Landry	P.O. Box C-5030 Seattle Wa. 98105-0030		
Whitney Foods F0827-7	Anchorage	Bruce Mitchell	P.O. Box 190429 Anchorage Ak. 99519-04		
10th and M Seafoods F0528-9	Anchorage	Bill Nix	1020 M Street Anchorage Ak. 99501		

Table 13. Age, sex, and size composition of herring caught in gillnets, Upper Subdistrict, Upper Cook Inlet, 21-27 May, 1992.

				Sex (N	o.)					Weigh	t		Lengt	h		Biomass	;
					····			Percent									
			Imm.	Ripe	Spawned		Total	of	Mean		Number	Mean		Number	No. Fish		
	Age	Male	Female	Female	Female	Unknown	No.	Total	(g)	SD	Weighed	(mm)	SD	Measured	X 1000	Tons	Tonnes
	1																
	2																
	3	1	0	0	0	0	1	0.5	73	0.0	1	182	0.	.0 1	28	2.3	2.1
	4																
	5	0	0	3	2	0	5	2.7	153	38.4	5	222	12.	.6 5	141	23.8	21,6
	6	11	0	12	13	0	36	19.6	165	16.7	36	233	7.	9 36	1014	184.8	167.7
	7	23	0	17	30	0	70	38.0	172	25.0	70	239	7.	9 70	1971	374.4	339.7
21-27 May	8	16	0	15	20	0	51	27.7	182	28.6	51	242	7.	.5 51	1436	288.5	261.7
	9	4	0	2	10	0	16	8.7	189	23.6	16	248	7.	1 16	451	94.1	85.4
	10	2	0	0	1	0	3	1.6	195	25.8	3	251	13.	1 3	84	18.1	16,4
	11	0	0	0	1	0	1	0.5	208	0.0	1	253	0.	0 1	28	6.5	5,9
	12																
	13	1	0	0	0	0	1	0.5	244	0.0	1	244	0.	0 1	28	7.6	6.9
	14																
	15																
	16																
Sample Total		58	0	49	77	0	184	100.0	175	2,7.6	184	239	10.	2 184	5182	1000.0	907.2
Sex Composit	ion	31.5	. 0	26.6	41.8												
Unaged		17	0.	8	11	0	36	19.6	176	29.3	36	241	10.	0 36			
Sex Composit	ion	47.2	.0	22.2	30.6												

Table 14. Age, sex, and size composition of herring caught in gillnets, Chinitna Bay, Upper Cook Inlet, 13-19 May, 1992.

				Sex (No	o.)					Weigh	t		Leng	th		Biomass	,
								Percent								-	
			Imm.	Ripe	Spawned		Total	of	Mean		Number	Mean		Number	No. Fish		
	Age	Male	Female	Female	Female	Unknown	No.	Total	(g)	SD	Weighed	(mm)	SD	Measured	X 1000	Tons	Tonnes
	1																
	2																
	3																
	4	3	0	2	0	0	5	4.3	109	42.6	5	218	17	.3 5	190	22.7	20.6
	5	4	0	5	0	0	8	7.8	170	33,3	9	239	14	.0 9	341	63.9	58.0
	· 6	8	0	7	0	0	16	13,8	192	37.9	16	247	10	.5 16	607	128.7	116.8
	7	10	0	12	0	0	22	19.0	192	30.7	22	248	8	.0 22	834	176.4	160.0
13-19 May	8	14	0	16	0	0	30	25.9	227	37.8	30	260	9	.6 30	1138	285.0	258.6
	9	17	0	10	0	0	27	23,3	220	34.9	27	258	8	.2 27	1024	247.9	224.8
	10	2	0	0	0	0	2	1.7	242	37.5	2	261	2	. 8 2	76	20.2	18.3
	11	0	0	3	0	0	3	2.6	267	30.1	3	274	4	.0 3	114	33.4	30.3
	12	0	0	2	0	0	2	1.7	259	46.7	2	261	24	.0 2	76	21.7	19.6
	13																
	14																
	15																
	16										•						
Sample Tota	1	59	0	57	0	0	116	100.0	206	45.7	116	252	14	.4 116	4400	1000.0	907.2
Sex Composi	tion	50.9	.0	49.1	. 0												
Unaged		22	0	21	0	0	43	37.1	209	40.9	42	254	10	.7 43			
Sex Composit	tion	51.2	. 0	48.8	. 0												

Table 15. Seldovia District tide tables, April-September, 1992.

	te Day Time Feet Time Feet Date Day Time Feet Time 1 Wed 1:22 17.7 1:35 17.7 1 Wed 7:24 0.9 7:36 2 Thur 1:48 18.7 2:09 18.4 2 Thur 7:59 -0.4 8:05 3 Fri 2:15 19.5 2:45 18.8 3 Fri 8:31 -1.4 8:37 4 Sat 2:44 19.9 3:21 18.7 4 Sat 9:04 -2.0 9:12 5 Sun 4:14 20.0 4:59 18.1 5 Sun 10:38 -2.2 10:45 6 Mon 4:46 19.7 5:42 17.2 6 Mon 11:17 -1.9 11:43 7 Tue 5:23 18.9 6:27 15.9 7 Tue 11:58 -1.2 8 Wed 6:06 17.9 7:24 14.7 8 Wed 0:06 3.9 12:48 9 Thur 6:59 16.6 8:34 13.9 9 Thur 0:59 5.0 1:49 10 Fri 8:12 15.3 9:55 13.9 10 Fri 2:09 5.9 3:05 11 Sat 9:41 14.8 11:09 14.9 11 Sat 3:36 5.8 4:26 12 Sun 11:08 15.2 12 Sun 5:03 4.5 5:37 13 Mon 0:09 16.4 12:23 16.4 13 Mon 6:12 2.4 6:36 14 Tue 1:00 18.1 1:23 17.8 14 Tue 7:08 0.1 7:24									MAY										
	HIG	H TII	DES			LO	w Tii	DES	·			HIG	н ти	DES		W. C.	LOV	V TIE	ES	
M	,	\.М.	Р.	м.			.м.	P.	м.				.м.	P.	м.			Λ.м.	P.	.м.
Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet	Date	Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet
1 Wed	1 · 22	17 7	1 · 35	17 7	1 Wed	7.24	n a	7.36	1.0		— Fri	2:03	18.4	2:48	17.4	1 Fri	8:28	-1.2	8:33	2.2
									0.8	_	Sat	2:35	19.3	3:29	18.0	2 Sat	9:03	-2.4	9:09	-2.1
									0.8		Sun	3:11	19.8	4:07	18.2	3 Sun	9:41	-3.2	9:48	2.1
4 Sat	2:44	19.9	3:21	18.7	4 Sat	9:04	-2.0	9:12	1.2	4	Mon	3:47	20.0	4:49	18.0	4 Mon	10:20	-3.5	10:28	2.4
5 Sun	4:14	20.0			5 Sun	10:38	-2.2	10:45	1.9	5	Tue	4:28	19.8	5:34	17.4	5 Tue	11:02	-3.3	11:13	2.8
						11:17	-1.9	11:43	2.8	6	Wed	5:10	19.1	6:24	16.7	6 Wed	11:48	-2.7		
										7	Thur	6:00	18.0	7:20	16.0	7 Thur	0:03	3.5	12:39	
									-0.3		Fri	6:59	16.7	8:21	15, 5	8 Fri	0:59	4.1	1:35	-0.5
						•			0.8		Sat	8:07	15.4	9:27	15.6	9 Sat	2:07	4.4	2:42	0.6
									1.6		Sun	9:29	14.6	10:30	16.1	10 Sun	3:27	4.0	3:51	1.4
			11;09						1.6		Mon	10:52	14.6	11:28	17.0	11 Mon	4:45	2.8	5:00	1.7
			12.23						1.0 0.3		Tue Wed	0.20	10 1	12:07	15.3	12 Tue	5:53	1.1	6:01	1,8
									-0.4		Thur	0:20 1:07	18.1 19.0	1:08 2:03	16.3 17.2	13 Wed 14 Thur	6:49 7:39	-0.7 -2.1	6:54	1.7
15 Wed	1:42	19.6	2:14	18.9	15 Wed	7:55	~1.9	8:08	-0.7		Fri	1:50	19.6	2:03	17.2	15 Fri	8:22	-3.1	7:42 8:27	1.6
16 Thur		20.7	2:59	19.6	16 Thur	8:39	-3.4	8:48	-0.6		Sat	2:31	19.9	3:32	18.1	16 Sat	9:03	-3.6	9:09	1.9
17 Fri	2:59	21.3	3:43	19.7	17 Fri	9;21	~4.1	9:30	-0.1		Sun	3:09	19.8	4:14	18.0	17 Sun	9:43	-3.5	9:48	2,3
18 Sat	3:36	21.2	4:25	19.3	18 Sat	10:00	-4.1	10:09	0.7		Mon	3:47	19.4	4:53	17.5	18 Mon	10:21	-3.0	10:29	2, 8
19 Sun	4:12	20.6	5:07	18.4	19 Sun	10:39	-3.4	10:49	1.8		Tue	4:24	18.6	5:34	16.8	19 Tue	10:59	-2.2	11:10	3.5
20 Mon	4:49	19,5	5:50	17.2	20 Mon	11:18	-2.2	11:29	3.1	20	Wed	5:04	17.6	6:16	16.0	20 Wed	11:39	-1.0	11:52	4,3
21 Tue	5:26	18.1	6:35	15.7	21 Tue	11:58	-0.7			21	Thur	5:42	16.4	6:59	15.2	21 Thur			12:16	0.2
22 Wed	6:03	16.5	7:25	14.3	22 Wed	0:11	4.5	12:43	1.0	22	Fri	6:27	15.1	7:46	14.4	22 Fri	0:37	5.1	12:59	1.5
23 Thur		14.9	8:23	13.3	23 Thur	0:59	5.8	1:33	2.5		Sat	7:19	13.8	8:36	14.0	23 Sat	1:29	5.8	1:46	2.8
24 Fri	7:48	13.5	9:35	12.8	24 Fri	1:59	6.8	2:36	3.8		Sun	8:21	12.7	9:29	13.9	24 Sun	2:33	6.0	2:40	3.8
25 Sat	9:00	12.5	10:45	13.1	25 Sat	3:18	7.2	3:52	4.5		Mon	9:31	12.1	10:21	14.2	25 Mon	3:42	5.8	3:40	4.6
26 Sun 27 Mon	10:27 11:43	12.4 13.0	11:40	13.9	26 Sun	4:42	6,6	5:03	4.5		Tue	10:47	12.2	11:11	14.9	26 Tue	4:50	4.8	4:43	5.0
27 Mon 28 Tue	0:22		12.41		27 Mon	5:51	5.3	5:59	4.1		Wed	11:56	12.9	11:56	15.8	27 Wed	5:48	3.5	5:40	5.0
20 Tue 29 Wed	0:22	14.9 16.1	12:41 1:27	14.1 15.3	28 Tue	6:38	3.6	6:41	3.6		Thur			12:54	14.0	28 Thur	6:38	1.7	6:30	4.6
30 Thur			2:08	16.5	29 Wed	7:17	1.9	7:19	3.1		Fri	0:38	16.8	1:42	15.2	29 Fri	7:18	0.1	7:18	4.1
JU Indr	1,51	17.3	4:00	10,3	30 Thur	7:52	0.2	7:55	2.6		Sat Sun	1:21 2:03	17.9 19.0	2;28 3:13	16.3 17.2	30 Sat 31 Sun	8:00 8:41	-1.5 -2.9	8:00 8:46	3.5

	1 Mon 2:45 19.8 3:55 17.9 1 Mon 9:23 -3.9 9:31 2 Tue 3:31 20.2 4:41 18.2 2 Tue 10:06 -4.5 10:17 3 Wed 4:15 20.2 5:26 18.2 3 Wed 10:50 -4.5 11:05 5 Fri 5:56 18.6 7:03 17.7 5 Fri 12:27 6 Sat 6:53 17.2 7:54 17.4 6 Sat 0:51 2.4 1:17 7 Sun 7:58 15.8 8:50 17.1 7 Sun 1:54 2.5 2:13 8 Mon 9:11 14.5 9:48 17.1 8 Mon 3:06 2.3 3:16 9 Tue 10:31 14.0 10:47 17.2 9 Tue 4:20 1.7 4:21 0 Wed 11:48 14.1 11:44 17.5 10 Wed 5:29 0.7 5:27 1 Thur 12:57 14.8 11 Thur 6:30 -0.4 6:27 2 Fri 0:36 17.9 1:55 15.6 12 Fri 7:23 -1.4 7:21 3 Sat 1:23 18.2 2:40 16.4 13 Sat 8:08 -2.1 8:08 4 Sun 2:09 18.5 3:23 16.9 14 Sun 8:51 -2.5 8:51 5 Mon 2:51 18.6 4:02 17.2 15 Mon 9:28 -2.6 9:33 5 Tue 3:30 18.6 4:41 17.2 16 Tue 10:04 -2.5 10:12								JULY										
	HIG	н ти	DES			LO	W TII	DES	***************************************		HIG	н ті	DES			LOV	V TIE)ES	
	ı	.м.	P.	м.		1	л.м.	Ρ.	м.		,	A.M.	P.	м.	•		A.M.	Þ,	.м.
Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet
1 Mon									2.4	1 Wed	3:18	20.8	4:25	19.1	1 Wed	9:53			1.1
2 Tue						-			2.1	2 Thur	4:07	21.0	5:07	19.6	2 Thur		-5.2	10:53	0.5
									2.0	3 Fri	4:56	20.6	5:50	19.8	3 Fri	11:21	-4.5	11:42	0.3
									2.2	4 Sat	5:48	19.6	6:35	19.6	4 Sat	,		12:06	-3.3
									-2.9	5 Sun	6:43	18.0	7:22	19.0	5 Sun	0:35	0.4	12:53	-1.5
									-1.4 0.2	6 Mon 7 Tue	7:41 8:49	16.2 14.6	8:10 9:06	18.2 17.4	6 Mon 7 Tue	1:32 2:35	0.8 1.3	1:44 2:40	0.6 2.7
									1.7	8 Wed	10:08	13.5	10:06	16.8	8 Wed	3:48	1.6	3:43	4.4
9 Tue									2.9	9 Thur		13.3	11:11	16.4	9 Thur		1.4	4:58	5.4
10 Wed									3,6	10 Fri			12:54	13.9	10 Fri	6:15	0.8	6:07	5.6
11 Thur			12:57		11 Thur				3.8	11 Sat	0:15	16.6	1:50	14.8	11 Sat	7:13	0.0	7:07	5.2
12 Fri	0:36	17.9	1:55	15.6	12 Fri	7:23	-1.4	7:21	3.7	12 Sun	1:10	17.0	2:36	15.7	12 Sun	8:00	-0.7	7;58	4.6
13 Sat	1:23	18.2	2:40	16.4	13 Sat	8:08	-2.1	8:08	3.5	13 Mon	1:58	17.5	3:11	16.5	13 Mon	8:40	-1.3	8:40	3.9
14 Sun					14 Sun	8:51			3.3	14 Tue	2:38	18.0	3:47	17.2	14 Tue	9:15	-1.7	9:18	3.3
15 Mon									3.1	15 Wed	3:16	18.4	4:17	17.6	15 Wed	9:47	-1.8	9:55	2.8
16 Tue						-	-		3.2	16 Thur	3:53	18.5	4:49	17.8	16 Thur		-1.7	10:32	2.6
17 Wed									3.3	17 Fri	4:28	18.3	5:18	17.9	17 Fri	10:51	-1.2	11:07	2.6
18 Thur	4:47	17.7	5:51	16.7	18 Thur	-	-1.3	11:31	3.7	18 Sat	5:04	17.7	5:47	17.7	18 Sat	11:20	-0.4	11:42	2.7
19 Fri 20 Sat	5:26 6:05	16.9	6:26	16.3	19 Fri	11:50	-0.4			19 Sun	5:42	16.8	6:19	17.3	19 Sun	11:51	0.7		
20 Sac 21 Sun	6:50	15.8 14.6	7:04 7:41	15.8 15.4	20 Sat 21 Sun	0:11 0:56	4.1	12:27	0.8	20 Mon	6:21	15.7	6:48	16.8	20 Mon	0:21	3.1	12:24	2.0
21 Sun 22 Mon	7:38	13.4		15.1	21 Sun 22 Mon	1:46	4.5 4.8	1:04 1:44	2.0 3.4	21 Tue 22 Wed	7:04 7:54	14.4	7:24	16.2	21 Tue	0:59	3,5	12:58	3.4
23 Tue	8:39	12.5	9:08	14.9	23 Tue	2:41	4.8	2:33	4.6	22 Wed 23 Thur	9:03	13.1 12.1	8:05 8:58	15.7 15.4	22 Wed 23 Thur	1:49	3.9	1:41	4.9
24 Wed	9:53	11.9	10:01	15.1	24 Wed	3:47	4.5	3:33	5.6	24 Fri	10:29	11.9	10:05	15.4	24 Fri		4.1	2:36	6.1
25 Thur		12.1	10:56	15.6	25 Thur		3.5	4:39	6.1	25 Sat	11:56	12.6	11:19	16.1	25 Sat	3:59 5:19	3.8 2.7	3:49 5:11	7.0 6.9
26 Fri	12:22P		11:53	16.4	26 Fri	5:54	2.2	5:45	5.9	26 Sun			1:03	14.1	25 Sac 26 Sun	B:25	1.0	6:23	5.9
27 Sat			1:21	14.3	27 Sat	6:49	0.5	6:46	5.2	27 Mon	0:26	17.4	1:56	15.9	27 Mon	7:18	-0.9	7:23	4.3
28 Sun	0:46	17,6		15.7	28 Sun	7:39	-1.3	7:39	4.2	28 Tue	1:26	19.0	2:39	17.7	28 Tue	8:06	-2.7	8:14	2.5
29 Mon	1:39	18.8	2:58	17.1	29 Mon	8:24	-3.0	8:30	3,1	29 Wed	2:19	20.5	3:21	19.3	29 Wed	8:51	-4.2	9:02	0.8
30 Tue	2:29	20.0	3:40	18.2	30 Tue	9:07	-4.3	9:17	2,0	30 Thur	3:09	21.5	4:00	20.5	30 Thur	9:35	-5.0	9:50	-0.6
									•	31 Fri		21.9	4:41	21.3	31 Fri			10:36	-1.4
										31 FF1	3:30	21.8	4:41	21.3	31 FF1	14:17	-4,9	10:36	-1

	1 Sat 4:44 21.5 5:21 21.5 1 Sat 10:59 -0.4 11:22 2 Sun 5:34 20.4 6:03 21.0 2 Sun 11:41 -2.6 3 Mon 6:24 18.7 6:45 20.0 3 Mon 0:11 -1.2 12:26 4 Tue 7:20 16.7 7:30 18.7 4 Tue 1:04 -0.2 1:12 5 Wed 8:23 14.7 8:21 17.2 5 Wed 2:04 1.0 2:04 6 Thur 9:24 13.3 9:27 15.9 6 Thur 3:14 2.2 3:13 7 Fri 11:22 13.0 10:42 15.2 7 Fri 4:38 2.6 4:36 8 Sat 12:43 13.7 8 Sat 6:01 2.3 5:56 9 Sun 0:01 15.4 1:40 14.7 9 Sun 7:02 1.5 7:00 1.0 Mon 1:00 16.1 2:19 15.8 10 Mon 7:47 0.7 7:47 1.1 Tue 1:47 17.1 2:52 16.8 11 Tue 8:24 -0.1 8:24												S	EPTE	MBER				
	HIG	H TII	DES			LO'	w TI	DES		-	HIG	н ти	DES			LOV	V TIE)ES	
		\.М.	Ρ.	M.			.м.	P	м.		A	.м.	Ρ.	.м.			A.M.	P.	.м.
Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet	Date Day	Time	Feet	Time	Feet
1 Sat	4:44	21.5	5:21	21.5	1 Sat	10.59	-0 4	11.22	-1,6	1 Tue	6:05	19.0	6:06	20.3	1 Tue	11:57	1.0		
	5:34									2 Wed	6:57	16.9	6:51	18.5	2 Wed	0:34	-0.6	12:43	3.2
3 Mon	6:24	18.7	6:45	20.0	3 Mon	0:11	-1,2	12:26	-0.5	3 Thur	7:57	14.9	.7:43	16.6	3 Thur	1:28	1.2	1:33	5.4
						1:04	-0.2	1:12	1.8	4 Fri	9:21	13.4	8:50	15.0	4 Fri	2:35	2.9	2:44	7.1
									4.1	5 Sat	10:58	13.1	10:16	14.2	5 Sat	4:08	3.8	4:17	7.8
									5.9	6 Sun	12:22P	13.8	11:45	14.5	6 Sun	5:41	3.7	5:48	7.2
	11:22				-				6.9	7 Mon			. 1:15	15.0	7 Mon	6:41	2.9	6:49	6.0
	0.01								6.8	8 Tue	0:49	15.5	1:50	16.1	8 Tue	7:23	2.0	7:31	4.6
									5.9	9 Wed 10 Thur	1:31	16.7 17.8	2:17	17.2	9 Wed	7:55	1.3	8:06	3.2
						_			4.8 3.7	10 Inur 11 Fri	2:08 2:40		2:45	18.2 19.1	10 Thur	8:24	0.8	8:37	1.9
12 Wed									2.7	12 Sat	3:15	18.6 19.2	3:07 3:33	19.7	11 Fri 12 Sat	8:52 9:18	0.4	9:09 9:38	0.9 0.2
13 Thur		18.6	3:47	18.4	13 Thur		-0.9	9:34	2.0	13 Sun	3:48	19.4	3:59	19.9	12 Sac 13 Sun	9:49	0.7	10:09	-0.1
14 Fri	3:35	19.0	4:14	18.9	14 Fri	9:51	-0.9	10:06	1.4	14 Mon	4:22	19.1	4:27	19.8	14 Mon	10:18	1,3	10:41	-0.1
15 Sat	4:08	19.0	4:40	19.0	15 Sat	10:20	-0.5	10:38	1.2	15 Tue	4:56	18.4	4:54	19.4	15 Tue	10:50	2.3	11:15	0.3
16 Sun	4:43	18.6	5:06	18.9	. 16 Sun	10:49	0.2	11:10	1.3	16 Wed	5:34	17.3	5:23	18.7	16 Wed	11:21	3.4	11:52	1.0
17 Mon	5:18	17.8	6:34	18.5	17 Mon	11:19	1.3	11:46	1.7	17 Thur	6:16	15.9	5:57	17.8	17 Thur	11:57	4.7		
18 Tue	5:55	16.7	6:03	17.9	18 Tue	11:47	2.6			18 Fri	7:06	14.5	6:40	16,7	18 Fri	0:37	1.8	12:40	6.0
19 Wed	6:35	15.3	6:35	17.1	19 Wed	0:21	2.2	12:24	4.0	19 Sat	8:13	13.4	7:43	15,6	19 Sat	1:33	2.8	1:41	7.2
20 Thur		13.9	7:14	16.3	20 Thur		2.9	1:01	5.4	20 Sun	9:42	13.1	9:13	15.0	20 Sun	2:50	3.4	3:06	7.7
21 Fri	8:30	12.6	8:10	15.6	21 Fr1	2:02	3.5	1:57	6.8	21 Mon	11:11	14.0	10:47	15.6	21 Mon	4:19	3.1	4:44	6.9
22 Sat	10:02	12.2	9:30	15.2	22 Sat	3:18	3.8	3:20	7.7	22 Tue			12:15	15.8	22 Tue	5:37	1.9	6:01	4.8
23 Sun	11:37	13.0	10:58	15.8	23 Sun	4:48	3.1	4:53	7.3	23 Wed	0:05	17.1	1:02	17.8	23 Wed	6:33	0.4	6:57	2.2
24 Mon	0.12	17 2	12:44	14.7	24 Mon	6;01	1.5	6:12	5.7	24 Thur	1:05	18.9	1:42	19.8	24 Thur	7:21	-1.0	7:45	
25 Tue 26 Wed	0:12 1:16	17.3 19.1	1:31 2:13	16.7 18.8	25 Tue 26 Wed	7:00	-0.4	7:10	3.5	25 Fri	1:58	20.4	2:22	21.5	25 Fri	8:05	-1.8	8:30	-2.3
27 Thur	2:08	20.8	2:13	20.6	25 Wed 27 Thur	7:47	-2.1	8:00	1.2	26 Sat	2:45	21.5	2:59	22.6	26 Sat	8;47	-2.1	9:13	-3.7
28 Fri	2:57	21.9	3:31	21.9	27 Indr 28 Fri	8:30 9:11	-3.4 -3.9	8:47 9:33	-0.8 -2.3	27 Sun	3:30	21.9	3:36	23.0	27 Sun	9:27	-1.7	9:55	
20 F11 29 Sat	3:44	22.3	4:09	22.6	20 FF1 29 Sat	9:52	-3.9	10:15	-2.3 -3.1	28 Mon	4:15	21.5	4:15	22.7	28 Mon	10:08	-0.8	10:37	-3.7
30 Sun	4:30	21.9	4:48	22.5	30 Sun	10:33	-2.7	11:00	-3.1 -3.0	29 Tue 30 Wed	5:00	20.4	4:54	21.6	29 Tue	10:49	0.7	11:20	-2.5
31 Mon	5:17	20.7	5:26	21.7	31 Mon	11:15			-3.0 -2.1	20 MRC	5:46	18.8	5:34	20.0	30 Wed	11:31	2.5		

Table 16. Reported subsistence catch by gear, area and species, Upper Cook Inlet, 1992.

Subdistrict/Gear	Specific Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Central Dip Net	Kenai River Kasilof River	158 24	16,240 1,230	1,475 24	598 3	74 0	18,545 1,281
	Subtotal	182	17,470	1,499	601	74	19,826
Central Set Net							
Upper	Ninilchik	55	1,277	153	45	1	1,531
	Cohoe	147	4,610	683	88	12	5,540
	Kalifonsky Salamatof	189 72	9,541 3,911	1,920 1,009	273 132	154 24	12,077 5,148
Kalgin Isl a nd	3 a I allia LU I	8	226	24	0		261
Kustatan		0	31	36	Õ	3 3	70
Western		6	417	157	9	15	604
Chinitna Bay		0	0	0	0	0	0
Subtotal		477	20,013	3,982	547	212	25,231
Northern Set Net							
General		344	3,236	2,182	300	572	6,634
Eastern		4	497	329	16	4	850
Knik Arm		132	5,203	2,328	354	965	8,982
Subtotal		480	8,936	4,839	670	1,541	16,466
Grand Total		1,139	46,419	10,320	1,818	1,827	61,523

¹ Does not include Tyonek subsistence or any personal use fishery harvests.

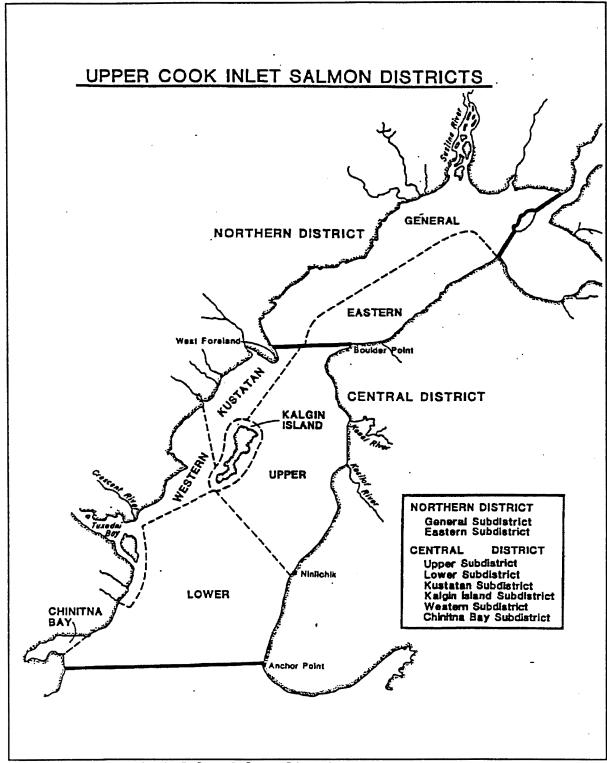


Figure 1. Upper Cook Inlet Salmon Districts

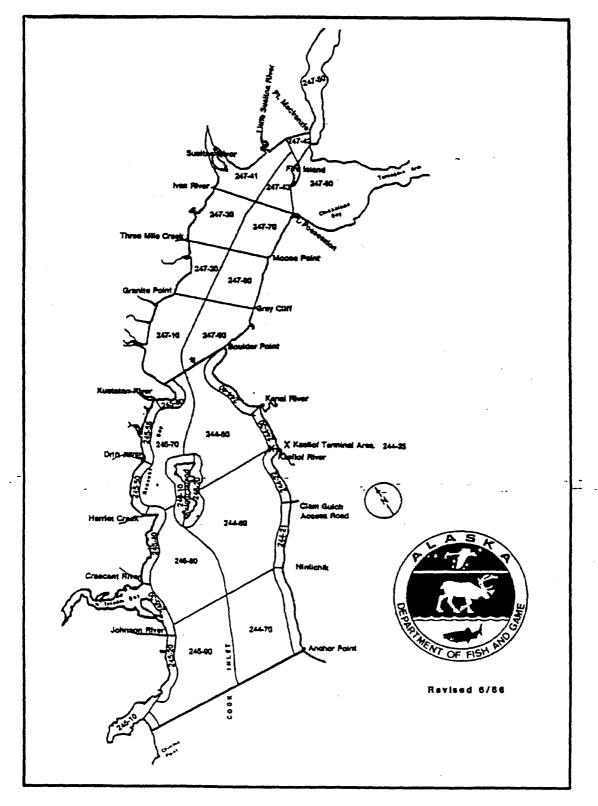


Figure 2. Upper Cook Inlet statistical areas.

Appendix A.1. Upper Cook Inlet commercial chinook salmon harvest by gear type and area, 1966-1992.

			Cei	ntral Dis	trict Set Gill	lnet	·		
	Central Dis Drift Gill		East S	ide	Kalgin/West	t Side	Northern Set Gill		•
Year	Number	%	Number	%	Number	%	Number	%	Total
1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992	392 489 182 362 367 237 375 244 422 250 690 3,411 2,072 1,089 2,320 1,293 1,125 1,377 2,048 1,834 4,552 2,217 0 621 241 615	4.6 6.3 4.0 4.1 2.3 4.1 6.4 23.1 6.4 23.1 7.4 23.5 13.5 13.5 11.6 03.8 11.6 11.6 11.6 11.6 11.6 11.6 11.6 11	7,329 6,646 3,304 5,834 5,366 7,055 8,599 4,411 5,571 3,675 8,249 9,732 12,468 8,671 9,643 8,358 13,658 15,043 6,165 17,723 19,810 21,870 10,919 4,891 10,718	85.8 85.0 72.8 47.1 64.3 53.5 53.5 84.5 765.8 765.8 765.9 672.1 69.3 672	401 500 579 3,286 1,152 2,875 2,199 369 434 733 1,469 1,084 2,093 2,264 2,273 837 3,534 1,516 2,427 2,108 1,029 1,137 3,092 1,763 1,544 1,284	4.7 6.4 12.8 26.6 13.5 14.5 15.0 13.5 15.1 16.5 16.8 17.1 16.5 17.1 10.1 2.6 11.6 11.9 11.4 7.5	422 184 471 2,904 1,460 9,598 4,913 170 169 457 565 666 1,714 993 725 2,716 933 1,004 1,890 15,488 12,701 12,836 12,731 9,582 6,859 4,554	4.9 2.3 10.4 23.5 48.5 30.3 2.7 4.8 30.5 2.7 4.8 30.5 2.7 4.8 30.5 12.5 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	8,544 7,819 4,536 12,386 8,345 19,765 16,086 5,194 6,596 4,787 10,865 14,792 17,299 13,738 13,798 12,240 20,635 10,062 24,088 39,661 29,060 26,742 16,105 13,535 17,171
Average ¹	1,143	7.2	9,281	63.6	1,619	11.4	3,619	17.8	15,662

¹1989 excluded from averages.

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Appendix A.2. Upper Cook Inlet commercial sockeye salmon harvest by gear type and area, 1966-1992.

			Centr	al Distr	ict Set Gillne	t			
	Central Di Drift Gil		East Si	de	Kalgin/West	Side	Northern D Set Gillne		
Year	Number	%	Number	%	Number	%	Number	%	Total
1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992	1,103,261 890,152 561,737 371,747 460,690 423,107 506,281 375,695 265,771 368,124 1,055,786 1,073,098 1,803,479 454,707 770,247 633,280 2,103,429 3,222,428 1,235,337 2,032,957 2,834,534 5,631,746 4,129,878 3 2,305,742 1,117,514 6,069,495	59.66.87.95.51.58.43.81.90.58.61.23.40.03.65.55.66.66.55.55.66.66.66.66.66.66.66.	485,330 303,858 317,535 210,834 142,701 111,505 204,599 188,816 136,889 177,336 476,376 751,178 660,797 248,359 559,812 496,003 971,423 1,508,511 490,273 1,561,200 1,657,904 3,495,802 2,428,597 4,543,066 1,116,975 844,156 2,838,076	26.07 26.07 30.55 19.55 28.59 28.66 27.96 26.62 27.96 28.65 29.33 34.68 35.70 38.22	132,443 66,414 85,049 71,184 62,723 61,144 83,176 59,973 52,962 73,765 62,338 104,265 105,767 108,422 137,882 60,217 66,952 134,575 162,139 285,081 153,714 208,036 146,154 186,828 84,949 99,705 131,291	7.2 4.8 7.7 10.3 8.6 9.5 9.5 10.7 10.8 3.7 10.7 8.2 2.1 7.7 7.0 2.2 2.1 3.7 4.6 1.4	131,080 118,065 140,575 38,050 66,458 40,533 85,755 45,614 41,563 65,526 69,649 123,780 51,378 113,918 105,647 249,662 118,060 184,219 218,695 181,191 141,830 164,602 129,713 280,801 96,398 116,201 69,478	7.1 8.7 8.7 5.9 6.4 9.8 9.7 6.0 12.7 13.6 6.7 13.6 10.7 1.9 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7	1,852,114 1,378,489 1,104,896 691,815 732,572 636,289 879,811 670,098 497,185 684,751 1,664,149 2,052,321 2,621,421 925,406 1,573,588 1,439,262 3,259,864 5,049,733 2,106,714 4,060,429 4,787,982 9,500,186 6,834,342 5,010,698 3,604,064 2,177,576 9,108,340
Average ¹	1,607,705	57.8	860,956	29.5	107,705	6.2	111,843	6.5	2,688,208

¹1989 excluded from average.

Appendix A.3. Upper Cook Inlet commercial coho salmon harvest by gear type and area, 1966-1992.

			Centr	al Distr	ict Set Gillne	t			
	Central Di Drift Gil		East Si	de	Kalgin/West	Side	Northern Di Set Gillne	strict t	
Year	Number	%	Number	 %	Number	%	Number	%	Total
1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1988 1989 1990 1991 1992	80,901 53,071 167,383 33,053 114,070 35,491 21,577 31,784 75,640 88,579 80,712 110,184 76,259 114,496 89,510 226,366 416,274 326,965 213,423 357,388 506,405 202,306 277,703 247,453 175,504 267,300	27.9 27.9 35.8 32.9 35.4 40.7 37.8 40.7 37.8 43.0 46.5 34.6 52.3 46.6 52.3 47.6 49.2 49.2 49.2 49.2 57.0	68,877 40,738 80,828 18,988 30,114 16,589 24,673 23,901 36,837 46,209 47,873 23,693 34,134 29,284 40,281 36,024 108,393 37,166 70,657 76,385 74,977 55,419 81,744 40,351 30,435 57,078	23.8 22.9 17.3 18.8 10.5 22.9 18.8 22.3 15.6 21.3 17.7 8.6 10.1 16.6 9.1 16.9 24.1 12.2	59,509 40,066 63,301 28,231 52,299 26,188 15,300 24,784 40,610 53,537 42,243 38,093 61,711 68,306 51,527 88,390 182,205 97,796 84,618 147,331 85,932 74,930 77,058 81,004 73,429 87,515 53,400	20.5 22.5 13.5 28.7 26.1 18.7 20.3 24.2 20.8 22.8 19.2 23.9 18.8 11.4 16.8 23.7 20.4	80,550 43,854 156,648 20,425 82,722 22,094 19,346 23,951 47,038 33,051 37,835 20,623 47,089 53,078 90,098 134,625 85,352 53,867 114,786 91,837 88,108 98,920 149,742 175,710 139,401 132,270 91,133	27.8 24.7 33.5 29.0 22.9 22.9 23.9 22.9 23.9 21.5 10.4 21.7 21.5 20.4 21.9 21.9 21.9 21.9 21.9	289,837 177,729 468,160 100,697 279,205 100,362 80,896 104,420 200,125 221,376 208,663 192,593 219,193 265,164 271,416 485,405 792,224 516,322 449,993 667,213 756,830 451,404 560,022 339,201 500,634 425,724 468,911
Average ¹	168,838	43.0	45,677	15.0	66,089	20.0	75,325	22.1	355,943

¹1989 excluded from average.

Appendix A.4. Upper Cook Inlet commercial pink salmon harvest by gear type and area, 1966-1992.

			Cent	ral Dist	rict Set Gillne	et			
	Central Di Drift Gil		East Si	de	Kalgin/West	t Side	Northern D Set Gilln	istrict et	
Year	Number	%	Number	%	Number	%	Number	%	Total
1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1981 1981 1983 1984 1985 1986 1987 1988 1988 1989 1990 1991 1992	593,654 7,475 880,512 8,233 334,737 6,433 115,117 91,901 140,432 113,868 599,594 286,308 934,442 19,554 964,526 53,888 270,389 273,565 34,428 38,660 226,776 323,955 5,791 423,738	29.6 23.7 21.9 18.3 21.9 18.3 22.3 47.7 55.6 42.4 37.4 39.9 47.3 48.0 47.3 48.0 53.7 50.7 50.9	969,624 12,900 785,887 10,968 281,067 18,097 403,706 80,596 291,408 112,423 479,024 125,817 372,601 19,983 299,444 15,654 432,715 18,309 220,895 17,715 530,445 47,707 179,092 37,971 225,429 2,670 244,068	48.3 40.5 34.5 34.6 50.8 64.7 60.2 24.7 633.1 222.1 16.3 20.8 43.1 26.3 20.8 43.1 38.1 38.1 38.1 38.1 38.1 38.1	70,507 3,256 75,755 5,711 24,763 2,637 18,437 9,014 19,086 30,030 25,212 54,785 7,061 47,963 4,242 3,785 16,708 14,242 3,785 16,708 15,460 5,890 5,580 10,302 1,049 4,248	3.5 10.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17	371,960 8,460 534,839 7,587 174,193 8,423 90,830 137,250 42,876 90,953 148,080 116,518 326,614 26,382 474,488 53,325 73,307 21,604 106,284 30,232 139,002 18,205 54,210 23,878 43,944 5,153 23,805	18.5 26.4 23.5 23.3 21.4 23.7 14.5 42.1 27.8 27.8 21.0 19.3 36.6 41.3 30.7 17.2 41.7 16.5 35.4 35.4 35.4	2,005,745 32,091 2,276,993 33,499 814,760 35,590 628,566 326,184 483,730 336,330 1,256,728 553,855 1,688,442 72,980 1,786,421 127,143 790,644 70,327 617,452 87,828 1,299,360 109,801 469,968 67,430 603,630 14,663 695,859
Average ¹	284,187	38.6	238,394	35.1	19,307	4.6	120,328	21.6	662,215

¹1989 excluded from average.

Appendix A.5. Upper Cook Inlet commercial chum salmon harvest by gear type and area, 1966-1992.

			Centra	ıl Distr	ict Set Gillne	t			•
	Central Di Drift Gil		East Side	:	Kalgin/West	Side	Northern Dist Set Gillnet	rict	
Year	Number	%	Number	%	Number	%	Number	%	Total
1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1981 1982 1983 1984 1985 1986 1987 1988 1988 1989 1990 1991 1992	424,972 233,041 1,022,900 238,497 678,448 274,567 564,726 605,738 344,496 886,474 405,769 1,153,454 489,119 609,239 339,970 756,922 1,348,510 1,044,636 568,097 700,848 1,012,028 211,580 580,650 221,5469 232,955	79.8 78.5 90.7 89.14 890.7 89.5 86.5 83.5 83.7 91.7 94.7 83.7 890.9 80.9	7,461 399 1,563 399 1,228 1,727 1,965 506 980 1,484 1,413 4,563 2,147 2,386 4,777 2,822 3,695 4,133 7,027 16,608 11,841 12,302 4,611 2,387 2,867	1.4 0.1 0.1 0.2 0.3 0.3 0.1 0.3 0.1 0.3 0.3 0.5 0.6 0.3 0.5 0.6 4.8 1.1	64,725 25,013 44,986 16,954 48,591 32,647 40,179 29,019 15,346 33,347 47,882 54,708 40,946 30,342 28,970 26,461 36,647 38,079 34,207 31,746 39,078 53,558 40,705 21,705 22,974 13,180	12.1 8.4 4.0 6.3 6.5 10.1 4.3 3.9 3.5 10.2 4.7 7.5 2.6 3.4 5.0 4.1 3.4 15.7 22.7 6.2 4.8	58,454 11,836 24,507 16,603 19,780 30,851 36,492 30,787 14,045 23,861 37,151 9,310 16,728 46,208 43,006 29,321 74,727 36,122 76,040 67,180 75,728 81,948 35,710	6.7 12.2 12.2 13.1 14.3 14.3 14.3 14.7 15.3 14.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16	532,756 296,837 1,127,903 267,686 750,774 323,945 626,412 667,573 396,840 951,588 469,180 1,233,436 571,779 649,758 387,815 831,977 1,432,940 1,114,858 680,726 772,849 1,134,173 348,926 708,573 122,027 351,197 280,223 274,303
Average ¹	574,735	83.4	3,284	0.6	34,228	6.0	35,208	5.2	647,455

¹1989 excluded from average.

Appendix A.6. Upper Cook Inlet commercial salmon harvest by gear type and area, 1966-1992.

			Cent	ral Distr	rict Set Gillnet		
	Central Dist Drift Gillne		E a st	Side	Kalgin/West Side	Northern District Set Gillnet	
Year	Number	%	Number	%	Number %	Number %	Total
1966 1967 1968 1969 1971 1972 1973 1974 1975 1976 1977 1978 1980 1981 1982 1983 1984 1985 1986 1987 1988 1988 1989 1990 1991	2,203,180 1,184,228 2,612,714 651,892 1,584,301 739,835 1,208,076 1,105,362 826,761 1,457,295 2,142,551 2,626,455 3,305,371 1,199,085 2,165,142 1,672,876 4,139,886 4,621,783 2,291,799 3,127,469 4,969,254 6,688,844 5,217,224 819 3,167,292 1,514,519 6,994,103	47.0 622.0 52.0 66.1 52.1 66.3 56.3 56.3 57.0 68.3 57.0 68.3 57.0 68.3 69.0 69.0 69.0 69.0 69.0 69.0 69.0 69.0	1,538,621 364,541 1,189,117 247,023 460,478 153,374 643,304 299,689 471,211 340,623 1,013,006 911,831 1,084,563 306,164 911,327 558,425 1,530,966 1,582,378 758,194 1,671,428 2,291,571 3,656,473 2,687,819 4,686,002 1,391,505 884,539 3,152,807	32.8 19.3 24.0 22.4 17.4 13.7 28.8 16.9 29.7 15.5 21.2 22.6 19.3 24.3 24.3 23.4 19.6 29.8 29.8 31.2 29.8	327,585 7.0 135,249 7.1 269,670 5.4 125,366 11.3 189,528 7.3 125,491 11.2 159,767 7.2 130,582 7.4 118,366 7.5 186,468 8.5 183,962 5.1 223,362 5.5 265,302 5.2 216,395 11.2 268,615 6.7 180,181 6.2 303,249 4.8 277,769 4.1 299,188 7.7 472,238 8.4 296,292 3.7 342,782 3.3 274,593 3.2 304,209 5.5 174,798 3.5 212,787 7.3 203,403 1.9	619,610 13.2 208,947 11.0 890,987 18.0 80,910 7.3 349,340 13.5 97,251 8.7 220,626 9.9 237,836 13.4 168,138 10.6 220,446 10.0 270,066 7.5 285,317 7.1 462,898 9.0 204,402 10.6 687,954 17.1 483,545 16.7 322,441 5.1 289,944 4.3 515,766 13.3 341,272 6.1 460,468 5.7 361,608 3.5 422,229 4.9 575,068 10.3 325,035 6.4 299,876 10.3 214,271 2.0	4,688,996 1,892,965 4,962,488 1,105,191 2,581,647 1,115,951 2,231,773 1,773,469 1,584,476 2,204,832 3,609,585 4,046,965 5,118,134 1,926,046 4,033,038 2,895,027 6,296,542 6,771,874 3,864,947 5,612,407 8,017,585 10,449,707 8,601,865 5,566,098 5,058,630 2,911,721 10,564,584
Average ¹	2,646,819	59.9	1,157,730	24.2	229,346 6.5	347,661 9.4	4,381,556

¹ 1989 figures excluded from average.

Appendix A.7. Upper Cook Inlet commercial salmon harvest by species, 1954-1992.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
19556 19556 19556 19556 19560 19663 19666 19666 19667 19967 19977 19981 19988 19988 19991 19991 19991	63,7821 7826 7826 7827 7827 7821 7821 7821 7821 7821 7821	1,207,046 1,027,528 1,258,789 643,712 612,676 923,314 1,162,303 1,147,573 970,055 1,412,350 1,852,114 1,380,062 1,412,3605 636,824 670,085 684,752 1,664,150 2,052,421 1,573,597 1,439,277 1,439,340	321,525 170,777 198,189 125,434 239,312 117,778 106,312 117,778 157,654 197,654 153,837 177,850 100,933 104,125 209,7379 100,933 104,125 207,369 192,193 265,166 271,418 1793,933 265,418 1793,933 265,421 469,933 756,839 451,404 207,379 208,599 219,166 271,418 265,419 271,418 271	2,189,207 101,680 1,595,375 21,228 1,648,548 12,527 1,411,605 34,017 2,711,689 30,436 3,231,961 23,963 2,005,745 32,229 2,278,197 33,383 814,895 4628,574 326,184 483,730 336,333 1,256,728 1,553,855 1,688,442 72,982 1,786,430 127,164 790,648 70,327 617,452 87,828 1,299,360 149,972 67,430 603,633 695,859	510,068 248,343 782,051 1,001,470 471,697 300,319 659,997 349,628 970,582 387,027 1,079,084 532,756 296,837 1,119,114 269,847 776,229 630,103 667,573 396,840 951,796 469,802 1,233,779 650,357 390,675 833,542 1,433,866 1,114,858 680,726 772,849 1,134,173 349,139 708,573 122,027 280,223 274,303	4,291,626 1,594,381 1,899,301 1,8864,485 3,8604,4889 1,064,889 1,683,319 5,275,285 1,5738,196 1,894,619 1,916,546 1,894,619 1,1235,467 2,610,235,467 2,773,476 1,235,467 2,773,476 1,235,610,257 1,584,047,257 1,584,047,257 1,584,918 1,926,938 1,926,938 1,935,612,487 1,926,938 1,936,638 1
Average	20,653	2,222,842	316,506	776,915	626,068	3,962,984

Appendix A.8. Approximate exvessel value of the Upper Cook Inlet commercial salmon harvest by species, 1960-1992.

Year	Chinook	x	Sockeye	x	Coho	X	Pink	X	Chum	X	Total
1960	\$140,000	5.0	\$1,334,000	47.9	\$307,000	11.0	\$663,000	23.8	\$343,000	12.3	\$2,787,000
1961	\$100,000	4.7	\$1,687,000	79.4	\$118,000	5.6	\$16,000	0.8	\$204,000	9.6	\$2,125,000
1962	\$100,000	2.5	\$1,683,000	42.3	\$342,000	8.6	\$1,274,000	32.0	\$582,000	14.6	\$3,981,000
1963	\$89,000	4.6	\$1,388,000	72.3	\$193,000	10.1	\$13,000	0.7	\$236,000	12.3	\$1,919,000
1964	\$20,000	0.5	\$1,430,000	38.9	\$451,000	12.3	\$1,131,000	30.8	\$646,000	17.6	\$3,678,000
1965	\$50,000	2.0	\$2,099,000	82.1	\$109,000	4.3	\$70,000	2.7	\$230,000	9.0	\$2,558,000
1966	\$50,000	1.2	\$2,727,000	64.4	\$295,000	7.0	\$823,000	19.4	\$338,000	8.0	\$4,233,000
1967	\$49,000	1.9	\$2,135,000	82.6	\$187,000	7.2	\$13,000	0.5	\$202,000	7.8	\$2,586,000
1968	\$30,000	0.7	\$1,758,000	40.4	\$515,000	11.8	\$1,209,000	27.8	\$843,000	19.4	\$4,355,000
1969	\$70,000	4.3	\$1,231,000	75.2	\$109,000	6.7	\$23,000	1.4	\$204,000	12.5	\$1,637,000
1970	\$49,000	1.8	\$1,135,000	42.5	\$354,000	13.3	\$387,000	14.5	\$745,000	27.9	\$2,670,000
1971	\$189,000	10.7	\$1,102,000	62.2	\$143,000	8.1	\$22,000	1.2	\$316,000	17.8	\$1,772,000
1972	\$217,000	6.3	\$1,795,000	52.0	\$135,000	3.9	\$473,000	13.7	\$834,000	24.1	\$3,454,000
1973	\$122,000	2.0	\$3,214,000	52.2	\$320,000	5.2	\$363,000	5.9	\$2,134,000	34.7	\$6,153,000
1974	\$210,000	3.2	\$3,058,000	46.5	\$843,000	12.8	\$946,000	14.4	\$1,521,000	23.1	\$6,578,000
1975	\$65,000	1.0	\$2,596,000	39. 0	\$821,000	12.3	\$423,000	6.4	\$2,753,000	41.3	\$6,658,000
1976	\$276,000	2.0	\$8,626,000	63.2	\$818,000	6.0	\$1,879,000	13.8	\$2,040,000	15.0	\$13,639,000
1977	\$525,000	2.4	\$13,274,000	61.8	\$933,000	4.3	\$772,000	3.6	\$5,991,000	27.9	\$21,495,000
1978	\$667,000	2.0	\$26,128,000	80.3	\$1,388,000	4.3	\$2,154,000	6.6	\$2,217,000	6.8	\$32,554,000
1979	\$625,000	4.3	\$8,094,000	55.2	\$1,658,000	11.3	\$89,000	0.6	\$4,201,000	28.6	\$14,667,000
1980	\$417,000	3.2	\$7,932,000	61.6	\$902,000	7.0	\$2,114,000	16.4	\$1,516,000	11.8	\$12,881,000
1981	\$422,000	2.6	\$11,071,000	67.9	\$2,638,000	16.2	\$179,000	1.1	\$2,005,000	12.3	\$16,315,000
1982	\$753,000	2.1	\$25,029,000	69.0	\$4,139,000	11.4	\$515,000	1.4	\$5,851,000	16.1	\$36,287,000
1983	\$585,000	2.0	\$23,841,000	81.5	\$1,603,000	5.5	\$38,000	0.1	\$3,195,000	10.9	\$29,262,000
1984	\$311,990	1.8	\$12,445,633	71.8	\$2,041,480	11.8	\$522,419	3,0	\$2,007,827	11.6	\$17,329,349
1985	\$799,173	2.3	\$27,479,840	80.0	\$3,358,083	9.8	\$57,440	0.2	\$2,646,553	7.7	\$34,341,089
1986	\$881,356	1.9	\$37,665,832	83.3	\$2,838,881	6.3	\$698,527	1,5	\$3,123,485	6.9	\$45,208,08
1987	\$1,609,681	1.6	\$96,331,886	94.9	\$2,368,968	2.3	\$84,547	0.1	\$1,115,477	1.1	\$101,510,559
1988	\$1,204,321	1.0	\$111,102,230	91.2	\$4,731,340	3.9	\$650,309	0,5	\$4,113,356	3.4	\$121,801,556
1989	\$803,494	1.4	\$56,194,753	95.0	\$1,674,393	2.8	\$86,012	0.1	\$415,535	0.7	\$59,174,187
1990	\$436,822	1.1	\$35,804,485	88.0	\$2,419,202	5.3	\$512,590	1,3	\$1,495,827	3.7	\$40,668,906
1991	\$348,553	2.3	\$12,259,753	80.4	\$1,996,348	13.1	\$5,472	0.0	\$643,392	4.2	\$15,253,51
1992	\$634,383	0.6	\$96,038,337	96.0	\$2,262,323	2.3	\$404,990	0,4	\$740,618	0.7	\$100,080,651

Appendix A.9. Commercial herring harvest by fishery, Upper Cook Inlet, 1973-1992.

Harvest (Tons)								
Year	Eastside	Chinitna Bay	Tuxedni Bay	Total				
1973	13.8	0	0 .	13.8				
1974	36.7	0	0	36.7				
1975	6.2	0	0	6.2				
1976	5.8	. 0	0	5.8				
1977	17.3	0	0	17.3				
1978	8.3	55.3	0	63.6				
1979	67.3	96.2	24.8	188.3				
1980	37.4	20.0	86.5	143.9				
1981	86.2	50.5	84.9	221.6				
1982	60.2	91.8	50.2	202.2				
1983	165.3	49.2	238.2	452.7				
1984	117.5	90.6	159.0	367.1				
1985	121.7	47.4	220.5	389.6				
1986	178.9	111.1	191.9	481.9				
1987	130.5	65.1	152.5	348.1				
1988	50.7	23.4	14.1	88.2				
1989	55.2	122.3	34.3	211.7				
1990	55.4	55.9	16.1	127.4				
1991	13.4	15.7	1.6	30.7				
1992	24.7	10.4	0	35.2				

Appendix A.10. Commercial harvest of razor clams in Cook Inlet, 1919-1992.

Year	Pounds	Year	Pounds
1919	76,963	1956	0
1920	11,952	1957	0
1921	72,000	1958	0
1922	510,432	1959	272 072
1923 1924	470,280 156,768	1960 1961	372,872 277,830
1925	130,708	1962	195,650
1926	ŏ	1963	0
1927	25,248	1964	Ö
. 1928	0	1965	0
1929	0	1966	0 0
1930	0 .	1967	0
1931	No Record	1968	0
1932	93,840	1969	0
1933 1934	No Record No Record	1970 1971	0 14,755
1935	No Record	1972	31,360
1936	No Record	1973	34,415
1937	8,328	1974	0
1938	No Record	1975	10,020
1939	No Record	1976	0
1940	No Record	1977	1,762
1941	0	1978	45,931
1942 1943	0 0	1979 1980	144,358
1943	0	1981	140,420 441,949
1945	15,000	1982	460,639
1946	11,424	1983	269,618
1947	11,976	1984	261,742
1948	2,160	1985	319,034
1949	9,672	1986	258,632
1950	304,073	1987	312,349
1951 1952	112,320 0	1988 1989	392,610
1952	0	1990	222,747 323,602
1954	ŏ	1991	201,320
1955	Ŏ	1992	296,727

Escapement goals and counts of sockeye salmon in selected streams of Upper Cook Inlet, 1968-1992. Appendix A.11.

Year	Kenai	River	Kasilo	f River	Fish Creek		
	Escapement Goal	Escapement Estimate ¹	Escapement Goal	Escapement Estimate ¹	Escapement Goal	Escapement Estimate ²	
1968	0	88,000	0	93,000	0	19,616	
1969	150,000	53,000	75,000	46,000	0	12,456	
1970	150,000	73,000	75,000	37,000	0	25,000	
1971	150,000		75,000		0	31,900	
1972	150,000-250,000	318,000	75,000-150,000	112,000	0	6,981	
1973	150,000-250,000	367,000	75,000-150,000	40,000	0	2,705	
1974	150,000-250,000	161,000	75,000-150,000	64,000	0	16,225	
975	150,000-250,000	142,000	75,000-150,000	48,000	0	29,882	
1976	150,000-250,000	380,000	75,000-150,000	140,000	0	14,032	
1977	150,000-250,000	708,000	75,000-150,000	155,000	0	5,183	
1978	350,000-500,000	399,000	75,000-150,000	117,000	0	3,555	
1979	350,000-500,000	285,000	75,000-150,000	152,000	0	68,759	
1980	350,000-500,000	464,000	75,000-150,000	187,000	0	62,628	
1981	350,000-500,000	408,000	75,000-150,000	257,000	0	51,492	
982	350,000-500,000	620,000	75,000-150,000	180,000	50,000	27,864	
1983	350,000-500,000	630,000	75,000-150,000	210,000	50,000	118,797	
1984	350,000-500,000	345,000	75,000-150,000	232,000	50,000	192,352	
1985	350,000-500,000	501,000	75,000-150,000	503,000	50,000	68,577	
1986	350,000-500,000	501,000	150,000-250,000	276,000	50,000	29,800	
1987	400,000-700,000	1,597,000	150,000-250,000	249,000	50,000	91,215	
1988	400,000-700,000	1,021,500	150,000-250,000	202,000	50,000	70,303	
1989	400,000-700,000	1,599,959	150,000-250,000	158,206	50,000	67,224	
1990	400,000-700,000	658,908	150,000-250,000	144,289	50,000	48,717	
1991	400,000-700,000	647,597	150,000-250,000	238,269	50,000	59,269	
1992	400,000-700,000	994,760	150,000-250,000	183, 178	50,000	72,108	

Year	Susitna	River	Crescent	River	Packers Creek		
	Escapement Goal	Escapement Estimate ¹	Escapement Goal	Escapement Estimate ¹	Escapement Goal	Escapement Estimate ²	
1978	200,000	94,000	0	N/C	0	N/C	
1979	200,000	157,000	50,000	87,000	0	N/C	
1980	200,000	191,000	50,000	91,000	0	16,457	
1981	200,000	340,000	50,000	41,000	0	13,024	
1982	200,000	216,000 ³	50,000	59,000	0	15,826	
1983	200,000	112,000 ⁴	50,000	92,000	0	18,403	
1984	200,000	194,000 ⁵	50,000	118,000	0	30.864	
1985	200,000	228,000 ⁵	50,000	129,000	0	36,850	
1986	100,000-150,000 ⁶	92,000°	50,000-100,000	N/A	0	29,604	
1987	100,000-150,000 ⁶	66,000°	50,000-100,000	119,000	0	35,401	
1988	100,000-150,000°	52,347°	50,000-100,000	57,716	15,000-25,000	18,607	
1989	100,000-150,000	96,269°	50,000-100,000	71,064	15,000-25,000	22,304	
1990	100,000-150,000°	140,379 ⁶	50,000-100,000	52,180	15,000-25,000	31,868	
1991	100,000-150,000°	109,632	50,000-100,000	44,578	15,000-25,000	41,275	
1992	100,000-150,000°	66,057 ⁶	50,000-100,000	58,227	15,000-25,000	30,143	

Derived from sonar counters unless otherwise noted.

⁶ Yentna River only.

Weir counts.

Poor field conditions make this a minimum estimate; mark/recapture estimate from Su-Hydro studies was

Minimum estimate. Combining Yentna sonar with Sunshine Station mark/recapture estimate yields 176,000.

Yentna River sonar count combined with Sunshine Station mark/recapture estimate.

Appendix A.12. Average price paid for commercially harvested salmon, Upper Cook Inlet, 1969-1992.

Year	Chinook	Sockeye	Coho	Pink	Chum
1969	0.38	0.28	0.19	0.14	0.12
1970	0.40	0.28	0.25	0.14	0.14
1971	0.37	0.30	0.21	0.15	0.15
1972	0.47	0.34	0.27	0.19	0.20
1973	0.62	0.65	0.50	0.30	0.42
1974	0.88	0.91	0.66	0.46	0.53
1975	0.54	0.63	0.54	0.35	0.41
1976	0.92	0.76	0.61	0.37	0.54
1977	1.26	0.86	0.72	0.38	0.61
1978	1.16	1.32	0.99	0.34	0.51
1979	1.63	1.41	0.98	0.34	0.88
1980	1.15	0.85	0.57	0.34	0.53
1981	1.46	1.20	0.83	0.38	0.65
1982	1.27	1.10	0.72	0.18	0.49
1983	0.97	0.74	0.45	0.18	0.36
1984	1.08	1.00	0.64	0.21	0.39
1985	1.20	1.20	0.70	0.20	0.45
1986	0.90	1.40	0.60	0.15	0.38
1987	1.40	1.50	0.80	0.22	0.45
1988	1.30	2.47	1.20	0.37	0.76
1989	1.25	1.70	0.75	0.40	0.47
1990	1.20	1.55	0.75	0.25	0.60
1991	1.20	1.00	0.77	0.12	0.35
1992	1.50	1.60	0.75	0.15	0.40

Expressed as dollars paid per pound. Data Source: 1969-1983 - Commercial Fisheries Entry Commission. 1984-1992 - Random fish-ticket averages.

Appendix A.13. Average weight¹ (in pounds) of commercially harvested salmon, Upper Cook Inlet, 1972-1992.

Year	Chinook	Sockeye	Coho	Pink	Chum 6.62	
1972	28.76	6.00	6.18	3.96		
1973	37.85	7.38	6.13	3.71	7.61	
1974	36.20	6.76	6.39	4.25	7.21	
1975	25.14	6.07	6.86	3.60	7.06	
1976	27.63	6.82	6.43	4.04	8.04	
1977	28.19	7.52	6.73	3.67	7.96	
1978	33.24	7.55	6.39	3.75	7.60	
1979	27.93	6.21	6.38	3.58	7.34	
1980	26.29	5.93	5.83	3.48	7.32	
1981	23.64	6.41	6.55	3.70	7.66	
1982	28.42	6.98	7.24	3.62	8.33	
1983	29.64	6.38	6.90	3.04	7.96	
1984	28.77	5.91	7.09	4.03	7.57	
1985	27.65	5.64	7.19	3.27	7.61	
1986	25.91	5.77	6.41	3.72	7.42	
1987	28.99	6.73	6.57	3.50	7.10	
1988	29.67	6.61	7.05	3.74	7.67	
1989	24.04	6.60	6.58	3.19	7.25	
1990	22.60	6.41	6.45	3.40	7.10	
1991	21.46	5.63	6.09	3.11	6.56	
1992	24.63	6.59	6.43	3.88	6.75	
Average	27.93	6.47	6.56	3.63	7.41	

 $^{^{\}scriptsize 1}$ Total poundage divided by numbers of fish from fish ticket totals.

Appendix A.14. Registered units of gillnet fishing effort by gear type in Cook Inlet, 1960-1992.

	Drift						
Year	Resident	Non- Resident	Sub- total	Resident	Non- Resident	Sub- total	Total
1960 1961 1962 1963 1964 1965 1966 1967 1970 1971 1972 1973 1974 1975 1977 1978 1978 1981 1981 1982 1983 1984 1988 1988 1988 1988 1988 1989 1990 1991 1992	221 2279 2333 329 3329 3329 3350 497 519 493 493 493 493 493 493 493 493 493 49	67 93 112 139 145 145 176 186 204 220 191 152 146 150 162 171 179 183 185 170 164 163 164 163 164 168 174	288 372 372 478 474 504 501 517 5710 668 577 5710 668 577 5710 5710 5710 5710 5710 5710 5710	511 564 589 626 596 5580 5580 5580 687 697 6690 698 698 698 699 688 689 689 689 689 689	59 228 35 480 425 485 485 485 485 485 487 487 487 487 487 487 487 487 487 487	570 586 617 6617 6617 6610 6728 6721 7721 7731 7744 7747 7747 7747 7747 7747 774	858 958 989 1,132 1,099 1,140 1,140 1,292 1,415 1,411 1,272 1,441 1,272 1,411 1,298 1,325 1,332 1,332 1,332 1,328 1,328 1,328 1,328 1,328 1,328

¹ Source: 1960-74 ADF&G unpublished reports, 1975-92 Commercial Fisheries Entry Commission

Appendix A.15. Forecast¹ and projected² commercial harvests of salmon by species, Upper Cook Inlet, 1984-1991.

	Sockeye		Coho		Pink			Chum			Chinook				
Year	Forecast	Actual	Error	Projected	Actual	Error	Projected	Actual	Error	Projected	Actual	Error	Projected	Actual	Error
1984	2,200,000	2,102,767	- 4x	250,000	442,619	+77%	1,700,000	622,510	-63%	350,000	684,124	+95%	14,000	8,819	-377
1985	3,700,000	4,060,260	+10%	250,000	667,213	+167%	112,500	87,828	-22%	700,000	772,829	+10%	17,500	24,086	+387
1986	4,200,000	4,787,982	+14%	450,000	756,830	+68%	1,250,000	1,299,360	+ 4%	900,000	1,134,173	+26%	32,500	39,240	+217
1987	4,800,000	9,500,186	+98%	500,000	451,404	-10%	150,000	109,801	-27%	1,000,000	349,132	-65%	30,000	39,661	+327
1988	5,300,000	6,834,342	+29%	400,000	560,022	+40%	400,000	469,972	+17%	800,000	708,573	-11%	35,000	29,060	-172
1989	2,500,000	5,010,698	+100%	400,000	339,201	-15%	100,000	67,430	-33 x	800,000	122,027	-85%	30,000	26,742	-117
1990	4,300,000	3,604,064	-16%	250,000	500,026	+100%	600,000	603,630	+1%	400,000	351,197	-12%	25,000	16,105	-362
1991	3,200,000	2,177,576	-32%	400,000	425,724	+6%	90,000	14,663	-84%	500,000	280,223	-44%	20,000	13,535	-32%
1992	3,600,000	9,108,340	+153%	400,000	468,911	+17%	400,000	695,859	+74%	350,000	274,303	-22%	20,000	17,171	- 14%
1993	2,500,000			450,000			25,000			350,000			15,000		
Averag	e Error (uns	igned)	51%			56%			36%			41%			26%

Harvest forecasts have typically been prepared using average return per spawner values, parent-year escapements and average marine maturity schedules or time series modeling tempered by available juvenile production data.

² Harvest projections are prepared using subjective estimates of parent-year escapements, gross trends in harvest and expected intensity of fishery.

Appendix A.16. Subsistence and personal use salmon harvest, Upper Cook Inlet, 1980-1992.

Fishery	No. of Permits	Chinook	Sockeye	Coho	Pink	Chur
yonek Subsistence			7.80			
1980	67	1,936	262	0	0	0
	70	7,002				
1981		2,002	269	64	32	15
1982	69	1,565	209	113	15	4
1983	. • 75	2,750	185	40	0	2 23
1984	<i>7</i> 5	2,354	310	66	3	23
1985	76	1,720	44	8	0	10
1986	65	1,523	198	210	45	44
1987	64	1,552	161	149	5	24
1988	47	1,474	52	185	6	9
1989	49	1,314	67	175	Ō	í
1990	42	797	92	366	124	10
1991	57	1,105	25	80		
	57				0	0
1992		872	42	34	5	12
on-Commercial Gilln	<u>iet</u>					
1981	1,108	68	466	12,713	149	305
asilof Personal Use	1					
1982	649	372	7,543	24	17	0
1983	684	307	8,846	0	0	Ö
			12 024	-		
1984	698	165	12,926	0	0	0
1985	692	203	10,746	0	0	0
1986	N/A	168	9,609	0	0	0
1987	N/A	184	9,375	0	0	0
1988	N/A	118	9,803	0	0	0
1989	N/A	186	9,928	0	0	0
1990	N/A	133	7,123	Ŏ	Ŏ	ŏ
1991	N/A	34	8,380	Ö	Ŏ	Ö
all Coho Personal U	lse/Subsistence					
1983	295	0	0	712	0	0
1984	309	1	2		10	7
				2,261		
1985	998	50	805	11,265	108	53
1986	892	0	0	2,422	0	0
1987	486	8	9	2,213	2	37
1988	449	2	19	2,662	38	10
1989	365	0	0	2,376	0	0
1990	420	0	0	2,290	0	0
1991	360	0	0	2,703	Ō	8
orthern/Central Dis	stricts Subsistence					
1985	638	117	2,218	1,427	90	121
1991	7,065	550	32,230	3,520	537	1,598
1992	9,200	1,139	46,419	10,320	1,818	1,827
nik Arm Subsistence	:					
1985	405	4	1,649	2,055	48	212
enaitze Tribal Fish	nery					
1989	N/A	95	2,212	1,814	0	0
1990	N/A	53	3,477	1,117	326	Ŏ
1991	N/A	34	2,965	1,945	4	0
1992	N/A	55	2,025	3	3	0