

ALASKA DEPARTMENT OF FISH AND GAME
COMMERCIAL FISHERIES DIVISION

UPPER COOK INLET COMMERCIAL FISHERIES

ANNUAL MANAGEMENT REPORT, 1997

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and

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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 (*Oncorhynchus*), razor clams (*Siliqua patula*), and Pacific herring (*Clupea harengus pallasii*) 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 57% of the average annual salmon harvest since 1966 with set gillnets harvesting virtually all of the remainder (Appendix A.1-5).

Commercial salmon harvest statistics specific to gear type and area are available only back to 1954 (Appendix A.6). 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 (*O. nerka*) are by far the most important component of the catch followed by coho (*O. kisutch*), chum (*O. keta*), pink (*O. gorbuscha*) and chinook salmon (*O. tshawytscha*) (Appendix A.7).

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.8). 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.

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. 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).

Beginning in 1988 in Tuxedni Bay, significant decreases in herring abundance and a shift towards older age class herring were observed resulting in the closure of Tuxedni Bay by emergency order prior to the 1992 season. In Chinitna Bay and along the eastside beaches similar declines began to materialize after the 1990 season. As a result of these declines a Department proposal to the Alaska Board of Fisheries to open the Upper Cook Inlet herring fishery by emergency order only, was submitted. This proposal passed and became regulation for the 1993 season, ending a long period with fixed opening dates of April 15 on the east side and April 22 on the west side of the Inlet. This action effectively closes this fishery until the herring stocks have completed the rebuilding process. The 1997 season was the fifth year of a total closure of the Upper Cook Inlet Area with an opening of the eastside fishery anticipated in 1998.

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.9). 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. Currently, the use of mechanical harvesters is not permitted in any area of Cook Inlet.

1997 COMMERCIAL SALMON FISHERY

The commercial harvest of 4.5 million salmon in Upper Cook Inlet in 1997 was just slightly below the previous year and about 500,000 fish above the long-term average. A modest improvement in the sockeye salmon harvest coupled with a stable sockeye price produced an overall exvessel value of \$32.4 million, up \$2.7 million from 1996.

The Alaska Board of Fisheries made several changes to the Upper Cook Inlet commercial fishing regulations for the 1997 season that directly affect the commercial fishery. The Kenai River sockeye salmon sonar goal, as defined in 5 AAC 21.360 Kenai River Sockeye Salmon Management Plan, changed from a range of 550,000 to 800,000 to a new range of 550,000 to 825,000 for the 1997 season and 550,000 to 850,000 beginning with the 1998 season. The new goals can be reduced by the Board in the future if "non-commercial fishing, after consideration of mitigation efforts, results in a net loss of habitat units on the Kenai River...".

The Board amended the Northern District Chinook Salmon Management Plan by closing that portion of the Northern District from one mile south of the Theodore River to the Susitna River during the directed king salmon fishery in early June.

The Board delayed the start of the fishing season for set gillnetting in the East Forelands and Kenai Sections of the Upper Subdistrict (that portion north of the Blanchard Line) until the first regular period on or after July 8. The set gillnetting season will also end earlier in all sections of the Upper Subdistrict with the season closing date now being the first regular period on or after August 10.

Under new regulations, Upper Subdistrict setnetters may now register and obtain buoy stickers in groups, which will allow the use of a buoy sticker trailer buoy with any of the nets belonging to multiple permit holders as long as they are registered as a group.

Throughout the 1997 season, emergency order announcements and fishery updates were provided to radio stations in Homer and the Kenai-Soldotna area and to processors, fishermen's organizations and other agencies via electronic facsimile or e-mail. Emergency orders and daily escapement and harvest information were also made available through 24-hour recorded message telephone lines. The recorded message unit was upgraded prior to the season with the new equipment capable of handling up to ten simultaneous phone calls, greatly reducing the occurrence of busy signals.

Sockeye Salmon

The 1997 commercial harvest of nearly 4.2 million sockeye salmon represents the eighth highest catch

on record and is approximately 1.8 million fish higher than the long-term average but nearly a million fish below the average of the preceding ten years. The catch fell 1.1 million fish short of the forecast harvest of 5.3 million and was valued at \$31.4 million or 97% of the total fishery. As has become commonplace, prices paid for sockeye were very low early in the season (\$0.75 per pound) but eventually equaled the 1996 price of \$1.15 per pound, generally paid retroactively to the beginning of the season. The distribution of the harvest between drift (52.6%) and set net gear (47.4%) was shifted in favor of set nets by a few percentage points from the long-term average, due at least in part to the fishing pattern that provided fewer unrestricted drift periods.

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. Two developing programs (genetic stock identification and in-district sonar enumeration) are beginning to provide additional information.

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 1997, the program was again conducted aboard the F/V *Corrina Kay* captained by Roy Self.

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.10). Operations followed standard procedures in all systems in 1997 and no unusual problems were observed (Table 2). Weirs placed on Fish Creek and Packers Creek and operated by ADF&G Sport Fish Division and Cook Inlet Aquaculture Association, respectively, 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 1997 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 1997 fishery approximately 21,000 sockeye salmon were examined from catch (14,000) and escapement (7,000) samples. The age composition of adult sockeye returning to monitored systems is provided in Table 12.

Operating under the Big River Sockeye Salmon Management Plan adopted in 1989, a small set net fishery takes place in June in the northwest corner of the Central District. Between June 1 and June 24, fishing is allowed each Monday, Wednesday and Friday from 7:00 A.M. to 7:00 P.M. Permit holders are limited to a single 35-fathom net and the minimum distance between nets is 1800 feet, three times the normal separation. Targeting an early run of sockeye salmon returning to Big River, this fishery also encounters chinook salmon migrating through the area. In the plan, the bycatch of chinook is limited to 1,000 fish although harvests in recent years have been well below that level. The 1997 fishery produced a catch of 2,400 sockeye, the lowest on record for this fishery and less than half the average, and a chinook catch of just 86, the lowest on record. Effort was atypically light with just 10 permits making landings at the peak of the fishery. Past years had seen effort levels peak at about 20 permits.

The next fishery to open was the set gill net fishery in the Western Subdistrict of the Central District. Harvesting primarily sockeye salmon bound for the Crescent River, this fishery opens on the first Monday or Friday following June 15th. The fishery has a regular schedule of two twelve-hour weekly fishing periods throughout the season unless modified by emergency order. Following a period of record returns in the mid-eighties, the Crescent River sockeye return has fallen off sharply in recent years resulting in closures of the local set net fishery and closing the southwest corner of the Central District to drift fishing the last three seasons. Despite the restrictions, success in achieving the Crescent River escapement goal has been spotty. Based largely on the very poor escapement achieved in 1996, the management strategy for 1997 was more pre-emptive in nature, with the Western Subdistrict south of Redoubt Point closed to set netting and drift fishing restricted to east of 152 degrees 25 minutes N lat. beginning June 30 when the Crescent River sonar counters were installed. Initial escapement values were quite good and the fishery restrictions were lifted beginning July 14. The Crescent River escapement totaled 70,768, comfortably within the 50,000 – 100,000 fish goal range. The Western Subdistrict sockeye salmon harvest was just under 12,000 fish, the worst year on record. Limnological samples gathered from Crescent Lake throughout the summer revealed that zooplankton populations remain severely depressed and the short-term outlook for sockeye salmon

production from this system remains bleak.

The general fishing season for Upper Cook Inlet except the Central District east side begins the first Monday or Friday after June 24. However, a special provision of the regulation calls for opening the southern portion of the east side set nets (the Kasilof Section) prior to July 1 if the escapement level of sockeye salmon in the Kasilof River exceeds 50,000. At the beginning of the 1997 season, this event did occur with the Kasilof count topping the 50,000 mark on June 25. The Kasilof Section therefore opened along with most of the other fisheries on Friday, June 27. The remainder of the east side set net fishery (the Kenai and East Foreland Sections) opened on the new regulatory date of July 11 (the first regular period on or after July 10.)

This portion of the season, from July through mid-August, is designated by the Upper Cook Inlet Management Plan as the time period in which salmon stocks are to be managed primarily for commercial purposes and covers the interval during which nearly all of the commercial harvest occurs. Several stocks are identified as non-target stocks for the commercial fishery - late-run Kenai River chinook, Susitna coho and early-run Kenai coho.

Because of the overwhelming economic dominance of the sockeye salmon harvest, a fairly complex management program has developed centered on this species. An offshore test fishing program provides inseason projections of the overall size of the sockeye return. Sonar counters in the Kenai, Kasilof, Yentna and Crescent Rivers as well as weirs in Fish Creek and Packers Creek provide daily estimates of instream abundance. Periodic sampling of catches in major fisheries provides age composition information, often useful in gauging the run strength of particular stocks. A fairly new genetic stock identification (GSI) program appears to be capable of accurately determining the Kenai River component in commercial catches but present funding levels have limited the inseason use of this program as a management tool. Catches from each fishing period are sorted by species, gear and location by buyers and reported to the department on the day following the fishery, allowing for extensive use of comparative fishery performance data to determine the status of the return.

Based on past experience and the forecast of expected run-strength of individual stocks, the basic management strategy employed for the 1997 season followed the theme developed over the preceding decade. In general it has been found that the sockeye return to the Susitna River would not be capable of maintaining a standard two-period-per-week schedule throughout the fishing season and still meet the escapement objective set for the Yentna River (the principle sockeye-producing tributary of the Susitna). Some reduction of fishing time, particularly in the mixed-stock drift harvest, would be

required to adequately protect this stock. In contrast, Kasilof and Kenai River sockeye have generally demonstrated the ability to withstand a full fishing schedule. Reducing the Central District mixed-stock harvest would leave substantial surpluses of Kenai and Kasilof-bound sockeye to be harvested in a more discrete manner, namely in the Central District east side set net fishery and by the drift fleet confined to a 3-mile-wide corridor along the east side. Experience had also shown that the greatest benefit in reducing the drift harvest of Susitna-bound sockeye could be gained from focusing on the period from July 10-15 when north-bound fish appear to be at their greatest abundance. Harvesting the resulting surpluses of Kenai and Kasilof River sockeye along the east side has led to higher harvests of Kenai River chinook and coho salmon.

The strong, early escapement into the Kasilof River that allowed for the early opening of the Kasilof Section of the eastside set nets persisted in staying well ahead of the desired level and additional fishing was opened in the Kasilof Section on July 2, July 4-5, and July 7-10. Standard practice allowed drift gillnetting in portions of the three-mile corridor whenever adjacent sections are open for set netting but not including those hours from 10:00 P.M. to 5:00 A.M. when darkness precludes enforcement of the 3-mile line.

The July 10-15 "window" coinciding with the peak abundance in the Central District of Susitna sockeye encompassed two regular periods in 1997, the ones scheduled for July 11 and July 14. Sockeye salmon entering the Central District during the first half of July are prone to accumulating in rapidly increasing numbers in district before suddenly moving in large numbers to their respective rivers around mid-month. The best results in reducing the Susitna catch can be achieved by restricting the fishing period immediately prior to the movement of fish out of the district. Information gathered prior to July 11 indicated that sockeye returns in general appeared to be slightly early. Therefore, the drift period scheduled for July 11 appeared to offer the greatest likelihood of providing the desired protection of north-bound fish. Accordingly the drift fleet was restricted to fishing only in the 3-mile corridor for the July 11 regular period. The strategy proved successful when significant numbers of fish began moving quickly toward their home rivers beginning July 10. Additional fishing time for both set and drift nets was opened in the Kenai and Kasilof Sections on July 13 to stem the rapidly rising escapement levels in both the Kenai and Kasilof Rivers. All areas fished the regular period on Monday, July 14 with the drift fleet having it's best period to date, taking just under 300,000 sockeye, the east side set nets taking 65,000 and the Northern District catch increasing from 17,000 on July 11 to 30,000 on July 14.

During the next week, an additional fishing period was opened on July 17 in the Kenai and Kasilof Sections, as escapement into the Kenai remained strong. Early escapement counts at Yentna River

were strong but faded after a few days. In order to provide additional protection to Susitna-bound fish, the drift fleet was restricted to the corridor for the regular period on Friday, July 18 and the Northern District was closed. Additional fishing time in the Kenai and Kasilof Sections was permitted from July 19 until the regular period on July 21 when the drift fleet was again restricted to the corridor and the Northern District closed as daily Yentna River counts remained light. Through July 20, the Yentna had achieved only 50% of the minimum counts required, the Kenai had achieved its' minimum goal and the Kasilof was well within its' desired range. Beginning at noon, July 23 the Kenai and Kasilof Sections were opened and remained opened nearly constantly through August 4 as maximum goals were achieved in both the Kenai and Kasilof Rivers. The drift fleet was confined to the corridor for the regular period on July 28 in accordance with the provisions of the Northern District Coho Salmon Management Plan. Yentna River counts improved sharply on July 21 and no further actions were necessary as the upper end of the desired escapement range was achieved and ultimately exceeded.

Under the Fish Creek Sockeye Salmon Management Plan, three fishing periods (July 15, 20 and 22) were scheduled to be open for set gillnetting in Knik Arm near the terminus of Fish Creek. When poor fishing results from the first two periods coupled with very poor escapement values in Fish Creek indicated a substandard return, the final period was closed and personal use dipnetting within the creek suspended. The commercial harvest of just 13,000 sockeye was one of the smallest harvest on record and the catch of 117 coho salmon was by far the smallest on record, reflecting the early end to the fishery and late run-timing and poor run-strength for coho.

Final sonar counts for sockeye salmon in the Kenai River reached 1,064,818 with the peak daily count (84,110) and the midpoint both occurring on July 18. The goal range of 500,000 to 825,000 was exceeded by a substantial margin. The Kasilof River total of 266,025 exceeded the upper end of the desired range of 150,000 to 250,000 with the peak day (13,026) occurring on June 26 and the midpoint reached on July 4. The Yentna River counters recorded 157,822 sockeye salmon, exceeding for the first time the upper end of the desired range of 100,00 to 150,0000. The peak daily count of 10,491 occurred on July 22 while the midpoint was reached on July 24. Fish Creek weir counts for sockeye salmon totaled 54,656 with the highest daily count (5,105) observed on July 24 and the midpoint of the escapement reached on July 31..

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 (84%), the Northern District set net fishery (9%) and the Central District west side set net 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 1997 harvest of 103,036 chum salmon was lowest on record, far below the long-term average of just under 600,000. The chum salmon catch, valued at \$143,000, accounted for just 0.4% of the exvessel value of the salmon fishery. The very conservative offshore drift fishery coupled with the mandatory drift restriction on July 27 under the coho management plan contributed to reducing the exploitation of the return and the resulting Yentna River apportioned escapement, while poor, was not as bad as the harvest would suggest. The 1997 return was no doubt poor in strength, as many recent chum salmon returns have been, but was subjected to very light harvest pressure.

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.

The 1997 pink salmon return produced a harvest of 70,928 fish, about average for an odd-numbered year. Pink salmon accounted for less than 0.1% of the value of the salmon fishery with an exvessel value of \$12,000. No escapement objectives exist for odd-year pink salmon and this species did not play a role in any management decision implemented during the 1997 season. Unless pink salmon are unusually abundant, fishermen do not find it profitable to target on this species, actually actively avoiding areas of pink salmon concentrations in order to focus effort on more lucrative species. Given this behavior, the exploitation of weak pink salmon returns is thought to be quite low.

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 set net 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 set net 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 set net fisheries during August is based primarily on the strength of these returns.

The 1997 coho salmon harvest of 152,404 was the lowest in 25 years and was about half of the long-term average. Coho salmon accounted for 1.3% of the exvessel value of the salmon fishery. In general, coho salmon returns were well below average in run strength and exhibited somewhat late run-timing. District-wide drift periods were too infrequent to define the peak of abundance of Susitna-bound fish but exploitation was undoubtedly light due to the sockeye-related restrictions both in the drift fleet and the Northern District set net fisheries. Although coho abundance monitoring in freshwater systems is very limited, by early August all signs were pointing to very weak coho salmon returns. Despite the limited commercial exploitation due to sockeye-related restrictions, coho abundance appeared very poor in virtually all systems. In response, all Upper Cook Inlet commercial fishing was closed for the season on August 7 and all freshwater recreational fisheries except those targeting hatchery fish were limited to no bait and a single fish bag limit. Because escapement monitoring is so limited, it is difficult to measure the success of the fishery restrictions. Word-of-mouth input described instream coho abundance ranging from good to poor.

Chinook Salmon

The 1997 commercial harvest of 13,235 chinook salmon was well below the long-term average and the lowest since 1984. Valued at \$365,000, chinook represented 1.1% of the value of the salmon fishery, more than pink and chum salmon combined.

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 in 1986 and conducted under the direction of the Northern District 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 approached or reached the quota in the first years of the fishery but have declined substantially in recent years as Susitna River chinook salmon run strength has dropped.

In concert with management restrictions of the Northern District recreational fisheries, for the last several seasons the commercial fishery has been limited by emergency order to a single fishing period. In 1997, the fishing period on June 2 produced a catch of 834, a very light catch influenced by poor tidal and weather conditions. When freshwater abundance of many stocks, particularly the Deshka River, proved to be very strong, the final scheduled period on June 23 was opened by emergency order although only a modest number of fish (47) were taken.

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") set netters. An average of over 13,000 chinook salmon were taken annually during the 1980's in the commercial set net fishery, frequently exceeding the sport fish harvest. Much smaller numbers are taken in the drift gillnet fishery.

Throughout the course of the 1997 sockeye fishery the projected spawning escapement of Kenai River chinook remained well above the optimum level of 22,300 and, therefore, none of the restrictive elements of the Kenai River Late-Run Chinook Salmon Management Plan were invoked. The eastside set net catch of 11,281 chinook salmon was about average for this fishery. The harvest was spread fairly evenly over the eastside beach areas with Ninilchik (244-21), Cohoe (244-22), Kalifonsky (244-30) and Salamatof (244-40) averaging 25, 27, 24 and 17 chinook salmon per permit holder, respectively. A total of 57 chinook salmon were reported as retained for personal use by commercial

fishermen, 44 of those coming from the Central District eastside set net fishery.

Price, Average Weight and Participation

In general, prices paid to fishermen for their catch were nearly identical to the previous year. The price per pound for sockeye salmon began the season at \$.90 to \$1.00 but rose to \$1.15 by mid-season, paid retroactively to the beginning of the year (Appendix A.11). Chinook, coho, pink and chum salmon were sold for \$1.00, \$0.45, \$0.05 and \$0.19 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 generally were similar to the long-term mean. Chinook salmon averaged 27.6 pounds per fish while sockeye, coho, pink and chum salmon averaged 6.4, 6.5, 3.6 and 7.4 pounds, respectively (Table 13., Appendix A.12).

The Commercial Fisheries Entry Commission issued 581 drift gillnet permits (67.6% to Alaska residents) and 745 set gillnet permits (83.5% to Alaska residents) for the Cook Inlet area in 1997 (Appendix A.13). A total of 22 firms or individuals purchased Upper Cook Inlet fishery products during 1997 (Table 14).

Salmon Enhancement

Salmon enhancement through hatchery stocking has been a part of Upper Cook Inlet salmon production since the early 1970's. Presently, two commercially-oriented hatcheries are sited in Upper Cook Inlet, both operated by the Cook Inlet Aquaculture Association. One of the facilities (Trail Lakes) was originally built and operated by the Department's FRED Division and has recently been leased to CIAA as the state operating budget has been reduced. The hatcheries have functioned to produce primarily sockeye salmon with minor production of coho and chinook salmon. Many of the major projects operate without marking programs, making accurate estimates of contribution to common property harvests difficult. In general, hatchery-produced sockeye salmon have accounted for less than 10 percent of the commercial catch.

Owned and operated by CIAA, the Eklutna hatchery is located on the lower Knik River at the head of Knik Arm. Originally functioning as a chum salmon facility, this hatchery converted to sockeye salmon culture in 1992. The current program calls for annual production of 1 million sockeye salmon smolts

and 50,000 coho salmon smolts for release at the hatchery site and 5 million sockeye salmon fry for release in the Big Lake drainage. All fish are of Big Lake origin. Hatchery cost recovery is permitted in the hatchery tailrace although this harvest is opportunistic and no provisions are made to manage common property fisheries to assure a fixed level of revenue. At this time, few fish are returning to this facility as early brood years of sockeye salmon were destroyed due outbreaks of IHN virus. In 1997, 694 chum salmon, 22,985 sockeye salmon and 183 coho salmon were taken by CIAA from the Eklutna tailrace and sold. Harvest activities began July 10 and continued through August 26. Sockeye salmon sold for cost recovery averaged 3.63 pounds per fish.

The Trail Lakes hatchery, located in the upper Kenai River drainage, opened as a state facility in 1982 and was transferred to CIAA in 1990. The current Upper Cook Inlet sockeye salmon programs include a 2.3 million fry stocking project for Hidden Lake in the Kenai River drainage and a 2.75 million fry stocking program for Packers Lake on Kalgin Island as well as providing incubation space for the Tustumena Lake stocking project formerly operated from the Crooked Creek Hatchery. Only the Packers Lake project offers any opportunity for cost recovery. Any fish surplus to escapement needs may be recovered and sold by CIAA but no restriction of common property fisheries occurs in order to assure revenue opportunities. In 1997, a harvest schedule was implemented which provided for the harvest of any fish surplus to interim escapement objectives to promote harvest throughout the run. Each day had a cumulative escapement objective assigned based on historical run-timing applied to the overall escapement goal. Harvesting began on July 30 and continued through September 4. A total of 7,137 sockeye averaging 4.56 pounds were sold by the association to recover costs.

Stock Status and Outlook

In general, Upper Cook Inlet's salmon stocks remain in good condition although several problem areas currently exist. After a number of years of record-level returns through the mid to late '80's, the Crescent River sockeye salmon run has tailed off to near record low returns. Each of the recent seasons has seen increasingly severe restrictions of the localized fishery in an effort to sustain satisfactory escapements. With no causative factor for the decline readily apparent, it is difficult to provide a short-term outlook for this system. Although several recent escapements have fallen below the minimum goal for this system, they have not been seriously deficient and when conditions for producing fish return to a more favorable condition, there will likely be sufficient numbers of spawners available to rapidly increase the size of the return. Continued limnological assessment work done in the past three years clearly indicate a dramatic drop in available zooplankton in Crescent Lake, which is no doubt responsible for the lack of juvenile fish production. There are no obvious reasons for the limited

food production. Given the limnological data, at least the next several years will likely see continued poor returns of adults to this system.

Return-per-spawner values for the Kenai River sockeye salmon run have been somewhat reduced in recent years but high spawner numbers have sustained the return at well above average levels. 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 recent brood years have been consistently good. In summary, Upper Cook Inlet sockeye salmon harvests through the 1990's will likely drop modestly from the 1980's.

For 1998, the expected total return of sockeye salmon is forecast to be 4.0 million and the harvest should equal 2.5 million (Appendix A.14).

Chum salmon production has been relatively poor in recent years, in part due to after-effects of the 1986 fall flooding of the Susitna Basin, but likely also due to poor general environmental factors. Chum salmon stocks throughout central and western Alaska 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, at best, poor to fair over the next four years. The 1998 harvest projection for chum salmon is 200,000.

Susitna River pink salmon initially recovered somewhat from the 1986 flood but overall marine survival of pink salmon appears to be waning. The 1998 harvest is projected to be 300,000.

Upper Cook Inlet's coho salmon stocks generally produced very strong returns throughout most of the 1980's and early 1990's but the 1997 return appeared to be quite substandard in most drainages. Although the parent-year escapements for the 1998 return were generally thought to be good, it remains to be seen if the weak 1997 return is repeated in 1998. Early-run Kenai River coho salmon returns have ranged from average to fair in recent years but harvests have been high in both the commercial fishery and in the rapidly growing sport fishery. The Upper Cook Inlet commercial coho salmon harvest for 1998 is projected to be 300,000.

Chinook salmon stocks in Upper Cook Inlet appear to be in generally fair to good condition although many Northern District stocks declined substantially from the very high levels of the late 80's. A general rebuilding trend for these stocks has prompted relaxation of some restrictions in the recreational fishery, most notably a reopening of the Deshka River and the opening of two Northern

District commercial periods rather than the single period of recent years. The 1998 projected Upper Cook Inlet commercial chinook salmon harvest is 17,000.

COMMERCIAL HERRING FISHERY

Beginning in 1988 in Tuxedni Bay, significant decreases in herring abundance and a shift towards older age class herring were observed resulting in the closure of Tuxedni Bay by emergency order prior to the 1992 season. In Chinitna Bay and along the eastside beaches similar declines began to materialize after the 1990 season. As a result of these declines a Department proposal to the Alaska Board of Fisheries to open the Upper Cook Inlet herring fishery by emergency order only, was submitted. This proposal passed and became regulation for the 1993 season, ending a long period with fixed opening dates of April 15 on the east side and April 22 on the west side of the Inlet. This action effectively closes this fishery until the herring stocks have completed the rebuilding process. The 1997 season was the fifth year of a total closure of the Upper Cook Inlet Area, which will last until the 1998 fishing season. While there are no definite plans for this fishery in 1998 current thinking is for a limited fishery along the eastside of Cook Inlet for approximately 48 hours per week. The Department will seek input through the local Advisory Committee process in the fall of 1997 to see how participants in this fishery prefer to structure the fishery within the 48 hour time-frame. Depending on how this fishery develops in 1998 possible openings in Chinitna Bay may occur in 1999. No fishery is anticipated in the Tuxedni Bay area for several more years to allow these stocks to rebuild.

COMMERCIAL RAZOR CLAM FISHERY

Historically the Cook Inlet Razor clam fishery on the west side of Cook Inlet has been confined to the area between 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. Razor clams are present throughout this area with especially dense concentrations in the Polly Creek and Crescent River areas. Beginning in 1993 the Department of Environmental Conservation certified additional area for human consumption, north of the existing Polly Creek certified beach, to Redoubt Creek. In 1994 this certification was extended north to Harriet Point. 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. Currently there is no directed effort to harvest razor clams for the bait market. The minimum legal size for razor clams is four and one-half inches (114mm) in shell length.

The 1997 fishery began on May 20 and the last reported deliveries were made on August 23. The season's harvest taken primarily from the Polly Creek/Crescent River area was 366,532 pounds

(Appendix A.9). A total of 27 diggers made 1,677 landings over the course of the season. Diggers were paid an average of \$.50 per pound for their harvest making the total fishery exvessel value \$183,000. The summer's tide schedule can be found in Table 16.



SUBSISTENCE

There is a long history of Alaskans harvesting fish and game for their personal consumptive needs under sport, subsistence, and commercial fishing regulations in the Cook Inlet area (Braund 1982). Since 1978 when the State of Alaska passed its first subsistence statute (AS 16.05.258) many changes have occurred in the regulations governing the harvest of fish and game for personal consumption in the Cook Inlet Area. Beginning in 1981 a new category of fisheries, personal use was created to provide for the personal consumptive needs of state residents not able to meet their needs under other fisheries. Over the last 19 years numerous changes have occurred in the personal use or subsistence fisheries in Cook Inlet resulting from challenges in the State of Alaska Court System, The Alaska State Legislature or the Board of Fisheries process. The only personal use or subsistence fishery that has occurred consistently in Cook Inlet during this period is the Tyonek Subsistence fishery. A complete review of the various fisheries and changes that have resulted since 1978 is reported in Brannian and Fox, 1996.

Tyonek Subsistence Salmon Fishery

The present subsistence fishery in the Tyonek Subdistrict was created by an Anchorage Superior Court order in May 1980. In March 1981, the Board of Fisheries adopted permanent regulations for this fishery. Originally open only to those individuals living in the village of Tyonek, recent court decisions allow any Alaska resident to participate, although very few non-villagers seek permits. Fishing is allowed only in the Tyonek Subdistrict of the Northern District. Only one permit is allowed per household and each permit holder is allowed a single ten-fathom gillnet having a mesh size no greater than six inches. Fishing is allowed from 4:00 a.m. to 8:00 p.m. each Tuesday, Thursday and Friday from May 15 to June 15 or until 4,200 chinook salmon are taken. Fishing is again allowed from 6:00 a.m. to 6:00 p.m. each Saturday after June 15, though the opening is delayed until July 1 if 4,200 chinook salmon were taken before June 16. The permit allows 25 salmon per permit holder and 10 salmon for each additional member. Chinook salmon harvests have ranged from 797 in 1990 to 2,750 in 1983 (Appendix A.15). The total reported harvest for the 1997 season was 642 chinook, 94 sockeye, 127 coho, and 8 chum salmon.

PERSONAL USE SALMON FISHERY

Under the *Upper Cook Inlet Personal Use Salmon Fishery Management Plan*, (5 AAC 77.540) personal use fishing is allowed using gillnets near the Kasilof River in the waters of Upper Cook Inlet normally closed to commercial set gillnet fishing, approximately 1.5 miles on either side of the Kasilof River extending out from shore for 1 mile. In addition, Dip net fishing is allowed in the Kenai and Kasilof rivers as well as in Fish Creek in Knik Arm. The *Upper Cook Inlet Personal Use Salmon Fishery Management Plan* received substantial changes at the BOF meeting in January of 1996. In 1995 the personal use fishery allowed gillnets in most areas of Cook Inlet normally open to commercial set gillnet fishing, for the 1996 season most of this area was closed with dip net fisheries expanded to allow for approximately the same level of harvest that had occurred with gillnets in 1995.

A permit issued by the Department along with a valid resident sport fishing license or an exemption from licensing under AS 16.05.400 is required to participate in this fishery. The annual bag and possession limits are twenty-five salmon per head of household with an additional ten salmon for each household member.

Legal gear under these plans are set gillnets and dip nets. A set gillnet can not exceed 10 fathoms (60 feet), or 45 meshes in depth. Mesh size must be greater than four inches but may not exceed six inches. Gillnets must be set at least 100 feet apart at all times. A legal dip net has been defined in regulation 5 AAC 39.105 (24).

1997 Personal Use Fishery

A total of 14,919 permits were issued to households in the Upper Cook Inlet Personal Use fishery in 1997 harvesting 142,940 salmon (Table 15). A total of 9,233 were used to participate in one or more of the various fisheries. The personal use fishery using gillnets in the mouth of the Kasilof River opened on June 21 and was closed on June 25. A total of 16,922 salmon were harvested by 514 households. By far the most popular fishery was the dip net fishery in the Kenai River harvesting 109,067 salmon with 5,754 households participating. The Fish Creek fishery was utilized by 373 households harvesting 3,162 salmon. The Kasilof River dip net fishery was utilized by 789 households harvesting 9,315 salmon. Approximately 1,200 permits were not returned as required. A second fishery with a separate permitting system utilizing fishwheels in the Upper Yentna River was created in 1996. The 1997 harvest from 21 permits was 492 sockeye, 61 coho, 21 pink and 8 chum.

EDUCATIONAL FISHERIES

Several permits for fishing have been issued to Alaska Native groups in Cook Inlet. The first was to the Kenaitze Tribe under the terms of an injunction negotiated between the State of Alaska and the tribe in 1989. Prior to the start of the 1993 fishing season the Superior Court ordered the department to create educational fisheries for the Kenaitze Indian Tribe, the Ninilchik Traditional Council, the Native Village of Eklutna, and the Knik Tribal Council. These have been renewed annually under the Alaska Administrative Code 5 Article 2 *Educational Fishery Program*.

Kenaitze Tribal Fishery

The Kenaitze Tribal fishery was first allowed in 1989 and has continued through 1997. The Kenaitze Tribe was issued a single permit allowing the bearer, who must be a tribal member living in Game Management Unit 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 Kenai River downstream from a point one-quarter mile above Warren Ames Bridge and including those marine waters adjacent to the river mouth normally closed to commercial salmon fishing.

Fishing occurs primarily in marine waters south of the mouth of 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 tribal office reported the 1997 harvest as totaling 142 chinook, 2,410 sockeye, 5 pink and 191 coho salmon.

Ninilchik Traditional Council Fishery

Under the terms of a permit first issued in 1993, Alaska residents accompanied by a Ninilchik Traditional Council member may participate in this fishery. The permit allows the council to operate a single 10-fathom set gillnet having a mesh size no greater than 6.0 inches in the waters of Cook Inlet between a point 100 yards north of the Ninilchik small boat harbor entrance and the latitude of the commercial fisheries marker located approximately 1 statute mile north of the Ninilchik small boat harbor entrance and extending one-fourth of a mile offshore. The harvest for the 1997 season totaled 302 chinook, 241 sockeye, 99 coho and 55 pink salmon.

Native Village Of Eklutna Fishery

Under the terms of a permit first issued in 1993, Alaska residents accompanied by a Eklutna native village member may participate in this fishery. The permit allows the village to operate a single 10-fathom set gillnet having a mesh size no greater than 6.0 inches, in Knik Arm adjacent to the village site or in those waters within one mile from mean high water in an area from Goose Bay Creek north to Fish Creek. The harvest for the 1997 season totaled 7 chinook, 39 sockeye, 14 coho, 16 pink and 7 chum salmon.

Knik Tribal Council Fishery

Under the terms of a permit first issued in 1993, Alaska residents accompanied by a Knik Tribal Council member may participate in this fishery. The permit allows the village to operate a single 10-fathom set gillnet having a mesh size no greater than 6.0 inches in Knik Arm adjacent to the village site or in those waters within one mile from mean high water in an area from Goose Bay Creek to Fish Creek. The harvest for the 1997 season totaled 19 chinook, 153 sockeye, 34 coho and 15 chum salmon.

LITERATURE CITED

- Brannian, L. and J. Fox. 1996. Upper Cook Inlet Subsistence and Personal Use Fisheries Report to the Alaska Board of Fisheries, 1996. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2S96-03, Anchorage.
- Braund, S. R. 1982. Cook Inlet subsistence salmon fishery. Alaska Department of Fish and Game, Division of Subsistence Technical Paper 54, Juneau.
- Nickerson, R.B. 1975. A critical analysis of some razor clam populations in Alaska. Alaska Department of Fish and Game, Fisheries Rehabilitation, Enhancement and Development Division, Juneau.
- Ruesch, P.H. and J. Fox 1997. Upper Cook Inlet Commercial Fisheries Annual Management Report, 1996. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 2A97-16, Anchorage.
- Tarbox, K.E. 1998. An estimate of the 1997 total sockeye salmon return to Upper Cook Inlet, Alaska, using a test fishery. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 2A98-22, Anchorage.

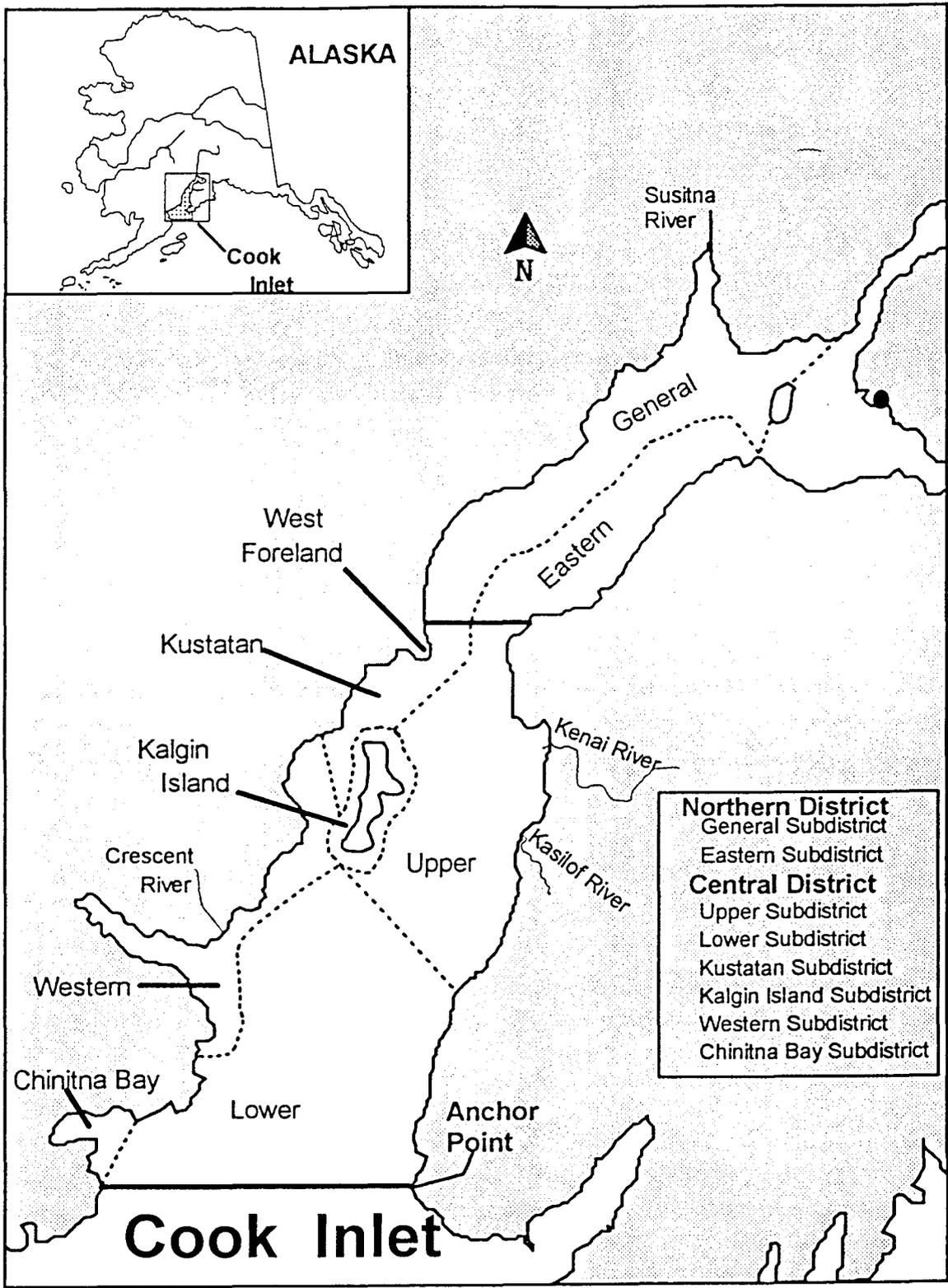


Figure 1. Upper Cook Inlet Salmon Subdistricts

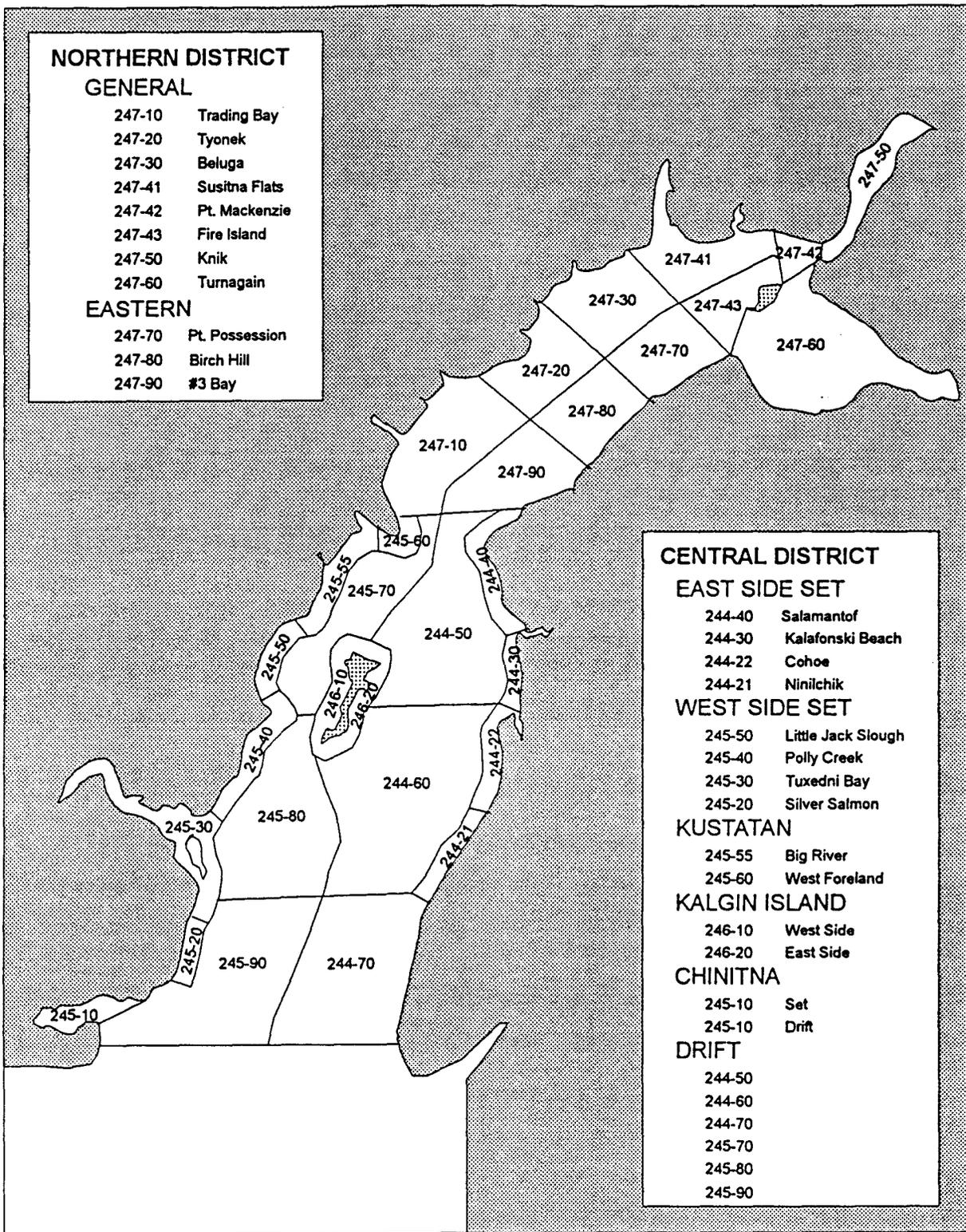


Figure 2. Upper Cook Inlet commercial fisheries statistical areas.

Table 1. Offshore sockeye salmon testfishing results, F/V Corrina Kay, 1997

DATE	NUMBER OF STATIONS	FISHING TIME (min)	CUMULATIVE			MEAN WATER			AIR	SALINITY (ppm)	Beginning Wind		Ending Wind	
			CATCH	CATCH	INDEX	LENGTH (mm)	TEMP (c)	TEMP (c)	VEL		DIR	VEL	DIR	
1-Jul	6	232	55	55	41.75	41.75	558	9.8	13.5	33.4	12 SW	15 SW		
2-Jul	5	185.5	34	89	26.00	67.75	550	10.0	12.5	31.7	22 SW	5 S		
3-Jul	6	230	78	167	58.80	126.55	559	10.0	15.2	30.8	6 S	5 S		
4-Jul	5	181.5	28	195	22.89	149.44	544	9.6	12.8	31.2	12 SW	10 S		
5-Jul	6	227.5	39	234	30.20	179.64	548	10.3	15.5	30.7	0	5 SW		
6-Jul	5	185	105	339	76.88	256.52	556	9.8	14.0	31.2	5 S	5 S		
7-Jul	6	218.5	40	379	32.81	289.33	531	10.4	14.7	30.4	15 SE	15 SE		
8-Jul	5	183.5	32	411	25.99	315.32	570	10.2	13.4	30.8	0	8 SE		
9-Jul	5	195.5	157	568	112.35	427.67	563	10.3	14.0	30.5	27 SE	26 S		
10-Jul	5	196.5	143	711	101.38	529.05	566	10.3	12.6	30.8	14 S	12 SW		
11-Jul	6	231	94	805	71.29	600.34	561	10.3	12.7	30.8	22 NW	24 NW		
12-Jul	5	192	83	888	60.73	661.08	550	9.5	12.4	31.2	12 NW	5 NW		
13-Jul	6	216	9	897	7.37	668.44	549	10.8	14.0	30.3	0	0		
14-Jul	5	189	88	985	61.13	729.58	562	10.5	13.6	30.2	5 SE	0		
15-Jul	6	202.5	50	1035	47.14	776.72	573	11.1	14.7	29.4	0	4 S		
16-Jul	5	181.5	38	1073	31.18	807.90	575	10.8	14.0	29.9	0	12 N		
17-Jul	6	226	61	1134	45.39	853.29	558	10.0	13.3	30.9	10 NW	22 NE		
18-Jul	5	180	11	1145	9.06	862.35	559	9.8	13.0	30.2	12 N	12 NW		
19-Jul	6	222	68	1213	53.07	915.42	574	10.1	14.0	30.9	0	0		
20-Jul	5	182.5	13	1226	10.49	925.91	553	10.4	13.0	30.5	0	0		
21-Jul	6	243.5	262	1488	177.38	1103.29	567	10.3	14.7	31	12 SE	12 SW		
22-Jul	5	191	64	1552	48.87	1152.16	544	10.1	12.2	31	20 SE	18 SE		
23-Jul	6	218.5	116	1668	83.29	1235.45	562	10.7	15.0	26.7	7 SE	0		
24-Jul	5	187	80	1748	60.51	1295.96	568	10.2	13.2	31.2	5 S	15 SE		
25-Jul	6	227	55	1803	40.64	1336.60	558	10.9	14.5	30.7	8 SE	0		
26-Jul	5	208.5	140	1943	89.72	1426.32	547	10.8	13.2	30.8	15 SE	8 SE		
27-Jul	6	224.5	93	2036	72.44	1498.76	564	11.2	16.8	31	0	5 SE		
28-Jul	5	178	42	2078	32.00	1530.76	554	11.2	14.0	30.5	8 SE	12 SE		
29-Jul	6	231	111	2189	84.58	1615.33	556	11.8	13.5	30	20 W	22 SW		
30-Jul	5	188	56	2245	40.48	1655.809	534	12.0	13.8	29.6	19 SW	6 SW		

Table 2. Sockeye salmon enumeration by river and date, 1997.

Date	KENAI RIVER		KASILOF RIVER		CRESCENT RIVER		YENTNA RIVER		FISH CREEK		PACKERS CREEK	
	daily	cum	daily	cum	daily	cum	daily	cum	daily	cum	daily	cum
15-Jun			1,164	1,849							11	15
16-Jun			1,546	3,395							3	18
17-Jun			3,614	7,009							0	18
18-Jun			3,428	10,437							10	28
19-Jun			5,659	16,096							3	31
20-Jun			9,964	26,060							0	31
21-Jun			7,083	33,143							30	61
22-Jun			4,389	37,532							62	123
23-Jun			4,258	41,790							91	214
24-Jun			7,132	48,922	259	259					18	232
25-Jun			11,342	60,264	732	991					21	253
26-Jun			13,026	73,290	458	1,449					71	324
27-Jun			12,107	85,397	598	2,047					24	348
28-Jun			4,359	89,756	568	2,615					14	362
29-Jun			6,099	95,855	881	3,496					9	371
30-Jun			8,430	104,285	600	4,096					160	531
1-Jul	3,451	3,451	5,337	109,622	643	4,739					8	539
2-Jul	5,063	8,514	11,086	120,708	1,667	6,406					98	637
3-Jul	6,051	14,565	3,849	124,557	4,429	10,835					5	642
4-Jul	7,543	22,108	12,003	136,560	2,463	13,298					33	675
5-Jul	9,162	31,270	2,159	138,719	1,812	15,110					1	676
6-Jul	4,764	36,034	1,317	140,036	1,813	16,923	362	362			88	764
7-Jul	3,850	39,884	4,724	144,760	1,940	18,863	296	658	0	0	2	766
8-Jul	6,680	46,564	1,122	145,882	2,375	21,238	364	1,022	0	0	6	772
9-Jul	3,768	50,332	2,073	147,955	3,382	24,620	348	1,370	0	0	30	802
10-Jul	21,821	72,153	2,707	150,662	5,768	30,388	364	1,734	0	0	2	804
11-Jul	52,344	124,497	4,194	154,856	4,977	35,365	320	2,054	0	0	0	804
12-Jul	57,930	182,427	4,139	158,995	3,592	38,957	435	2,489	0	0	0	804
13-Jul	66,019	248,446	5,136	164,131	2,130	41,087	2,318	4,807	0	0	1	805
14-Jul	62,582	311,028	1,799	165,930	1,785	42,872	8,964	13,771	0	0	8	813
15-Jul	18,509	329,537	1,749	167,679	1,331	44,203	9,798	23,569	0	0	19	832
16-Jul	39,114	368,651	3,458	171,137	2,060	46,263	7,522	31,091	1,579	1,579	276	1,108
17-Jul	73,994	442,645	7,786	178,923	2,609	48,872	5,109	36,200	38	1,617	88	1,196
18-Jul	84,110	526,755	2,487	181,410	1,986	50,858	3,933	40,133	0	1,617	291	1,487
19-Jul	7,202	533,957	1,987	183,397	1,078	51,936	4,018	44,151	4	1,621	131	1,618
20-Jul	22,065	556,022	1,830	185,227	914	52,850	5,642	49,793	26	1,647	449	2,067
21-Jul	21,260	577,282	1,083	186,310	884	53,734	8,156	57,949	180	1,827	181	2,248
22-Jul	10,504	587,786	1,892	188,202	1,045	54,779	10,491	68,440	2,002	3,829	14	2,262
23-Jul	33,190	620,976	5,317	193,519	1,322	56,101	9,278	77,718	3,087	6,916	648	2,910
24-Jul	69,554	690,530	3,607	197,126	1,529	57,630	8,184	85,902	5,105	12,021	971	3,881
25-Jul	11,293	701,823	2,273	199,399	1,302	58,932	9,807	95,709	3,287	15,308	277	4,158
26-Jul	6,998	708,821	1,808	201,207	1,042	59,974	9,757	105,466	2,559	17,867	615	4,773
27-Jul	4,145	712,966	1,816	203,023	1,214	61,188	4,489	109,955	1,165	19,032	1,048	5,821
28-Jul	5,003	717,969	2,550	205,573	1,437	62,625	4,053	114,008	2,296	21,328	207	6,028
29-Jul	7,335	725,304	2,098	207,671	1,168	63,793	3,299	117,307	2,221	23,549	237	6,265
30-Jul	6,935	732,239	3,236	210,907	1,759	65,552	3,795	121,102	1,330	24,879	86	6,351
31-Jul	6,842	739,081	2,553	213,460	1,245	66,797	4,403	125,505	2,479	27,358	211	6,562

Table 2. (page 2 of 2)

Date	KENAI RIVER		KASILOF RIVER		CRESCENT RIVER		YENTNA RIVER		FISH CREEK		PACKERS CREEK	
	daily	cum	daily	cum	daily	cum	daily	cum	daily	cum	daily	cum
1-Aug	4,077	743,158	2,132	215,592	1,064	67,861	4,902	130,407	2,191	29,549	82	6,644
2-Aug	2,834	745,992	2,624	218,216	892	68,753	4,056	134,463	1,712	31,261	678	7,322
3-Aug	4,239	750,231	2,187	220,403	805	69,558	2,899	137,362	1,917	33,178	857	8,179
4-Aug	3,859	754,090	1,912	222,315	597	70,155	3,629	140,991	3,743	36,921	731	8,910
5-Aug	3,633	757,723	3,877	226,192	613	70,768	2,753	143,744	3,161	40,082	381	9,291
6-Aug	12,835	770,558	5,770	231,962			1,916	145,660	1,329	41,411	160	9,451
7-Aug	13,970	784,528	6,490	238,452			1,291	146,951	1,721	43,132	315	9,766
8-Aug	22,172	806,700	7,498	245,950			2,170	149,121	1,600	44,732	75	9,841
9-Aug	17,484	824,184	5,397	251,347			2,511	151,632	462	45,194	192	10,033
10-Aug	10,859	835,043	4,518	255,865			3,271	154,903	654	45,848	588	10,621
11-Aug	21,728	856,771	5,926	261,791			1,666	156,569	516	46,364	267	10,888
12-Aug	17,954	874,725	4,234	266,025			1,253	157,822	1,156	47,520	311	11,199
13-Aug	20,760	895,485							2,471	49,991	1,181	12,380
14-Aug	15,882	911,367							885	50,876	1,469	13,849
15-Aug	12,993	924,360							449	51,325	282	14,131
16-Aug	9,454	933,814							641	51,966	2,219	16,350
17-Aug	17,265	951,079							243	52,209	982	17,332
18-Aug	13,949	965,028							154	52,363	312	17,644
19-Aug	14,022	979,050							143	52,506	597	18,241
20-Aug	13,079	992,129							324	52,830	119	18,360
21-Aug	12,912	1,005,041							251	53,081	286	18,646
22-Aug	13,077	1,018,118							775	53,856	106	18,752
23-Aug	14,297	1,032,415							157	54,013	158	18,910
24-Aug	16,872	1,049,287							92	54,105	133	19,043
25-Aug	15,531	1,064,818							96	54,201	132	19,175
										54,656		33,846

Table 3. Commercial chinook salmon catch by area and date, Upper Cook Inlet, 1997.

Date	East Side Setnet										Northern District									
	Drift		Salamatof		K-Beach		Cohoe/Niniichik		Total		West Side		Kustatan		Kalgin		West Side		East Side	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
2-Jun													10	10			684	684	150	150
4-Jun													20	30				684		150
6-Jun													6	36				684		150
9-Jun													27	63				684		150
11-Jun													16	79				684		150
13-Jun													7	86				684		150
18-Jun														86				684		150
23-Jun											25	25		86			37	721	10	160
27-Jun	52	52			70	70	102	102	172	172	32	57	7	93	9	9	72	793	8	168
30-Jun	50	102			125	195	223	325	348	520		57	3	96	10	19	59	852	1	169
2-Jul	36	138			77	272	127	452	204	724		57		96		19		852		169
4-Jul	72	210			110	382	211	663	321	1,045		57	1	97	2	21	11	863	1	170
5-Jul	4	214			94	476	283	946	377	1,422		57		97		21		863		170
7-Jul	46	260			87	563	393	1,339	480	1,902		57	4	101	2	23	7	870	8	178
8-Jul	21	281			141	704	329	1,668	470	2,372		57		101		23		870		178
9-Jul	9	290			34	738	99	1,767	133	2,505		57		101		23		870		178
10-Jul	54	344			96	834	190	1,957	286	2,791		57		101		23		870		178
11-Jul	28	372	17	17	70	904	128	2,085	215	3,006		57		101	1	24	6	876		178
13-Jul	19	391	89	106	135	1,039	179	2,264	403	3,409		57		101		24		876		178
14-Jul	14	405	71	177	103	1,142	138	2,402	312	3,721	8	65	1	102		24	37	913	6	184
15-Jul		405		177		1,142		2,402		3,721		65		102		24		913		184
17-Jul	44	449	133	310	207	1,349	178	2,580	518	4,239		65		102		24		913		184
18-Jul	32	481	228	538	228	1,577	308	2,888	764	5,003	9	74	1	103	2	26		913		184
19-Jul	7	488	23	561	72	1,649	56	2,944	151	5,154		74		103		26		913		184
20-Jul	25	513	130	691	281	1,930	244	3,188	655	5,809		74		103		26	1	914		184
21-Jul	8	521	88	779	227	2,157	224	3,412	539	6,348		74	1	104		26		914		184
23-Jul	23	544	60	839	182	2,339	123	3,535	365	6,713		74		104		26		914		184
24-Jul	23	567	241	1,080	322	2,661	312	3,847	875	7,588		74		104		26		914		184
25-Jul	12	579	178	1,258	196	2,857	186	4,033	560	8,148		74	1	105	2	28	6	920	2	186
26-Jul	9	588	200	1,458	201	3,058	173	4,206	574	8,722		74		105		28		920		186
27-Jul	8	596	129	1,587	125	3,183	138	4,344	392	9,114		74		105		28		920		186
28-Jul	6	602	105	1,692	109	3,292	163	4,507	377	9,491		74		105		28	3	923		186
29-Jul	4	606	106	1,798	132	3,424	187	4,694	425	9,916		74		105		28		923		186
30-Jul	8	614	89	1,887	92	3,516	80	4,774	261	10,177		74		105		28		923		186
31-Jul	3	617	85	1,972	76	3,592	70	4,844	231	10,408		74		105		28		923		186
1-Aug	2	619	58	2,030	73	3,665	58	4,902	189	10,597		74		105		28	7	930	2	188
2-Aug		619	35	2,065	123	3,788	90	4,992	248	10,845		74		105		28		930		188
3-Aug	2	621	68	2,133	60	3,848	73	5,065	201	11,046		74		105		28		930		188
4-Aug	6	627	64	2,197	84	3,932	87	5,152	235	11,281		74		105		28	2	932		188

Table 4. Commercial sockeye salmon catch by area and date, Upper Cook Inlet, 1997.

Date	East Side Setnet										Northern District												
	Drift		Salamatof		K-Beach		Cohoe/Ninilchik		Total		Western		Kustatan		Kalgin Island		Chinitna Bay		West Side		East Side		
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	
2-Jun													69	69					670	670	197	197	
4-Jun													698	767					670			197	
6-Jun													205	972					670			197	
9-Jun													623	1,595					670			197	
11-Jun													687	2,282					670			197	
13-Jun													7	2,289					670			197	
18-Jun													83	2,372					670			197	
23-Jun											446	446	36	2,408					6	676	201	398	
27-Jun	28,971	28,971			14,446	14,446	26,005	26,005	40,451	40,451	547	993	47	2,455	3,434	3,434			165	841	864	1,262	
30-Jun	63,319	92,290			11,289	25,735	31,490	57,495	42,779	83,230		993	96	2,551	1,213	4,647			520	1,361	1,254	2,516	
2-Jul	10,176	102,466			7,745	33,480	17,358	74,853	25,103	108,333		993		2,551		4,647				1,361		2,516	
4-Jul	83,372	185,838			8,991	42,471	28,075	102,928	37,066	145,399		993	110	2,661	555	5,202			1,092	2,453	1,201	3,717	
5-Jul	2,341	188,179			5,343	47,814	12,395	115,323	17,738	163,137		993		2,661		5,202				2,453		3,717	
7-Jul	102,201	290,380			6,504	54,318	19,456	134,779	25,960	189,097	74	1,067	56	2,717	255	5,457			959	3,412	514	4,231	
8-Jul	8,648	299,028			6,927	61,245	19,495	154,274	26,422	215,519		1,067		2,717		5,457				3,412		4,231	
9-Jul	30,491	329,519			4,388	65,633	39,143	193,417	43,531	259,050		1,067		2,717		5,457				3,412		4,231	
10-Jul	197,587	527,106			19,671	85,304	47,091	240,508	66,762	325,812		1,067		2,717		5,457				3,412		4,231	
11-Jul	122,035	649,141	35,557	35,557	23,057	108,361	20,407	260,915	79,021	404,833	256	1,323	746	3,463	1,958	7,415			16,257	19,669	653	4,884	
13-Jul	237,954	887,095	73,557	109,114	70,391	178,752	29,443	290,358	173,391	578,224		1,323		3,463		7,415				19,669		4,884	
14-Jul	294,894	1,181,989	30,127	139,241	23,440	202,192	11,821	302,179	65,388	643,612	1,364	2,687	1,622	5,085	2,462	9,877			27,674	47,343	2,427	7,311	
15-Jul		1,181,989		139,241		202,192		302,179		643,612		2,687		5,085		9,877			6,138	53,481		7,311	
17-Jul	94,762	1,276,751	50,460	189,701	44,815	247,007	16,337	318,516	111,612	755,224		2,687		5,085		9,877				53,481		7,311	
18-Jul	107,895	1,384,646	48,711	238,412	10,909	257,916	14,595	333,111	74,215	829,439	2,225	4,912	345	5,430	2,234	12,111	172	172		53,481		7,311	
19-Jul	191,447	1,576,093	41,082	279,494	12,489	270,405	5,819	338,930	59,390	888,829		4,912		5,430		12,111			172	53,481		7,311	
20-Jul	84,450	1,660,543	95,559	375,053	25,293	295,698	11,928	350,858	132,780	1,021,609		4,912		5,430		12,111			172	7,086	60,567	7,311	
21-Jul	49,357	1,709,900	36,327	411,380	17,208	312,906	22,347	373,205	75,882	1,097,491	1,269	6,181	331	5,761	3,694	15,805			172	60,567		7,311	
23-Jul	88,914	1,798,814	57,075	468,455	39,331	352,237	43,540	416,745	139,946	1,237,437		6,181		5,761		15,805			172	60,567		7,311	
24-Jul	54,067	1,852,881	61,592	530,047	22,898	375,135	32,497	449,242	116,987	1,354,424		6,181		5,761		15,805			172	60,567		7,311	
25-Jul	119,127	1,972,008	23,605	553,652	16,286	391,421	28,779	478,021	68,670	1,423,094	1,180	7,361	388	6,149	2,605	18,410			172	9,100	69,667	1,349	8,660
26-Jul	14,355	1,986,363	13,691	567,343	9,530	400,951	19,070	497,091	42,291	1,465,385		7,361		6,149		18,410			172	69,667		8,660	
27-Jul	55,349	2,041,712	5,134	572,477	9,189	410,140	21,228	518,319	35,551	1,500,936		7,361		6,149		18,410			172	69,667		8,660	
28-Jul	33,032	2,074,744	15,154	587,631	12,073	422,213	14,035	532,354	41,262	1,542,198	1,626	8,987	669	6,818	2,497	20,907			172	6,060	75,727	662	9,322
29-Jul	12,568	2,087,312	27,844	615,475	15,443	437,656	20,961	553,315	64,248	1,606,446		8,987		6,818		20,907			172	75,727		9,322	
30-Jul	13,879	2,101,191	23,611	639,086	10,848	448,504	16,859	570,174	51,318	1,657,764		8,987		6,818		20,907			172	75,727		9,322	
31-Jul	10,480	2,111,671	13,660	652,746	10,948	459,452	20,239	590,413	44,847	1,702,611		8,987		6,818		20,907			172	75,727		9,322	
1-Aug	58,622	2,170,293	13,396	666,142	8,827	468,279	23,735	614,148	45,958	1,748,569	1,782	10,769	908	7,726	5,196	26,103			172	7,280	83,007	510	9,832
2-Aug	1,482	2,171,775	8,297	674,439	8,276	476,555	8,647	622,795	25,220	1,773,789		10,769		7,726		26,103			172	83,007		9,832	
3-Aug	1,145	2,172,920	11,028	685,467	8,342	484,897	9,198	631,993	28,568	1,802,357		10,769		7,726		26,103			172	83,007		9,832	
4-Aug	24,786	2,197,706	8,643	694,110	7,842	492,739	13,974	645,967	30,459	1,832,816	1,122	11,891	177	7,903	2,654	28,757			172	4,080	87,087	532	10,364

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Table 5. Commercial coho salmon catch by area and date, Upper Cook Inlet, 1997.

Date	East Side Setnet										Northern District											
	Drift		Salamatof		K-Beach		Cohoe/Ninilchik		Total		Western		Kustatan		Kalgin Island		Chinitna Bay		West Side		East Side	
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
2-Jun																						
4-Jun																						
6-Jun																						
9-Jun																						
11-Jun																						
13-Jun																						
18-Jun																						
23-Jun												15	15									
27-Jun	13	13											15						3	3	1	1
30-Jun	47	60			4	4			4	4		15	1	1	5	5		3	6	1	2	
2-Jul	4	64				4	2	2	2	6		15		1	5	5			6		2	
4-Jul	262	326				4	3	5	3	9		15	1	2	3	8		25	31	2	4	
5-Jul	1	327			3	7	4	9	7	16		15		2	8	8			31		4	
7-Jul	841	1,168			1	8	6	15	7	23		15	1	3	3	11		210	241		4	
8-Jul	20	1,188			11	19	12	27	23	46		15		3	11	11			241		4	
9-Jul	50	1,238			7	26	5	32	12	58		15		3	11	11			241		4	
10-Jul	233	1,471			47	73	30	62	77	135		15		3	11	11			241		4	
11-Jul	468	1,939	133	133	39	112	97	159	269	404	1	16	16	19	117	128		992	1,233	34	38	
13-Jul	1,733	3,672	409	542	48	160	61	220	518	922		16		19	128	128			1,233		38	
14-Jul	5,893	9,565	342	884	27	187	48	268	417	1,339	61	77	64	83	273	401		1,385	2,618	231	269	
15-Jul		9,565		884		187		268		1,339		77		83		401		5	2,623		269	
17-Jul	816	10,381	191	1,075	47	234	59	327	297	1,636		77		83		401			2,623		269	
18-Jul	1,330	11,711	299	1,374	17	251	34	361	350	1,986	320	397	93	176	451	852	11		2,623		269	
19-Jul	1,578	13,289	183	1,557	48	299	36	397	267	2,253		397		176		852	11		2,623		269	
20-Jul	1,130	14,419	262	1,819	99	398	67	464	428	2,681		397		176		852	11	112	2,735		269	
21-Jul	1,113	15,532	517	2,336	228	626	107	571	852	3,533	258	655	81	257	344	1,196	11		2,735		269	
23-Jul	2,845	18,377	591	2,927	291	917	342	913	1,224	4,757		655		257		1,196	11		2,735		269	
24-Jul	2,255	20,632	691	3,618	205	1,122	158	1,071	1,054	5,811		655		257		1,196	11		2,735		269	
25-Jul	26,768	47,400	680	4,298	203	1,325	182	1,253	1,065	6,876	881	1,536	340	597	2,705	3,901	11	8,710	11,445	429	698	
26-Jul	1,190	48,590	962	5,260	275	1,600	232	1,485	1,469	8,345		1,536		597		3,901	11		11,445		698	
27-Jul	3,439	52,029	513	5,773	234	1,834	419	1,904	1,166	9,511		1,536		597		3,901	11		11,445		698	
28-Jul	2,780	54,809	1,117	6,890	361	2,195	287	2,191	1,765	11,276	1,096	2,632	769	1,366	2,599	6,500	11	9,053	20,498	281	979	
29-Jul	1,024	55,833	989	7,879	414	2,609	456	2,647	1,859	13,135		2,632		1,366		6,500	11		20,498		979	
30-Jul	865	56,698	725	8,604	211	2,820	234	2,881	1,170	14,305		2,632		1,366		6,500	11		20,498		979	
31-Jul	642	57,340	687	9,291	173	2,993	413	3,294	1,273	15,578		2,632		1,366		6,500	11		20,498		979	
1-Aug	12,609	69,949	394	9,685	108	3,101	229	3,523	731	16,309	1,868	4,500	324	1,690	1,132	7,632	11	8,246	28,744	772	1,751	
2-Aug	319	70,268	361	10,046	232	3,333	262	3,785	855	17,164		4,500		1,690		7,632	11		28,744		1,751	
3-Aug	138	70,406	692	10,738	357	3,690	414	4,199	1,463	18,627		4,500		1,690		7,632	11		28,744		1,751	
4-Aug	8,256	78,662	506	11,244	193	3,883	342	4,541	1,041	19,668	1,391	5,891	208	1,898	1,273	8,905	11	6,406	35,150	468	2,219	

Table 6. Commercial pink salmon catch by area and date, Upper Cook Inlet, 1997.

Date	East Side Setnet										Northern District												
	Drift		Salamatof		K-Beach		Cohoe/Ninilchik		Total		Western		Kustatan		Kalgin Island		Chinitna Bay		West Side		East Side		
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	
2-Jun																							
4-Jun																							
6-Jun																							
9-Jun																							
11-Jun																							
13-Jun																							
18-Jun																							
23-Jun																						1	
27-Jun	244	244			3	3	25	25	28	28	12	12			31	31					8	9	
30-Jun	1,400	1,644			24	27	159	184	183	211		12	5	5	94	125			5	5	7	16	
2-Jul	186	1,830			24	51	147	331	171	382		12		5		125				5		16	
4-Jul	2,244	4,074			36	87	327	658	363	745		12	9	14	66	191			11	16	14	30	
5-Jul	85	4,159			54	141	361	1,019	415	1,160		12		14		191				16		30	
7-Jul	2,269	6,428			71	212	546	1,565	617	1,777		12	8	22	50	241			45	61	20	50	
8-Jul	280	6,708			140	352	999	2,564	1,139	2,916		12		22		241				61		50	
9-Jul	134	6,842			23	375	257	2,821	280	3,196		12		22		241				61		50	
10-Jul	891	7,733			102	477	737	3,558	839	4,035		12		22		241				61		50	
11-Jul	740	8,473	90	90	85	562	739	4,297	914	4,949		12	19	41	126	367			136	197	21	71	
13-Jul	1,182	9,655	824	914	138	700	2,023	6,320	2,985	7,934		12		41		367				197		71	
14-Jul	1,870	11,525	379	1,293	164	864	1,876	8,196	2,419	10,353	784	796	106	147	462	829			681	878	159	230	
15-Jul		11,525		1,293		864		8,196		10,353		796		147		829			1	879		230	
17-Jul	1,478	13,003	214	1,507	118	982	1,431	9,627	1,763	12,116		796		147		829				879		230	
18-Jul	1,916	14,919	247	1,754	219	1,201	1,992	11,619	2,458	14,574	556	1,352	73	220	351	1,180	11	11		879		230	
19-Jul	656	15,575	168	1,922	162	1,363	855	12,474	1,185	15,759		1,352		220		1,180				879		230	
20-Jul	961	16,536	452	2,374	336	1,699	1,737	14,211	2,525	18,284		1,352		220		1,180			11	1	880	230	
21-Jul	854	17,390	270	2,644	349	2,048	1,166	15,377	1,785	20,069	264	1,616	61	281	100	1,280			11		880	230	
23-Jul	1,019	18,409	182	2,826	134	2,182	738	16,115	1,054	21,123		1,616		281		1,280			11		880	230	
24-Jul	1,060	19,469	279	3,105	286	2,468	916	17,031	1,481	22,604		1,616		281		1,280			11		880	230	
25-Jul	5,796	25,265	350	3,455	345	2,813	1,118	18,149	1,813	24,417	133	1,749	32	313	370	1,650			11	916	1,796	51	281
26-Jul	626	25,891	393	3,848	358	3,171	805	18,954	1,556	25,973		1,749		313		1,650			11		1,796	281	
27-Jul	1,222	27,113	211	4,059	179	3,350	972	19,926	1,362	27,335		1,749		313		1,650			11		1,796	281	
28-Jul	583	27,696	237	4,296	143	3,493	723	20,649	1,103	28,438	111	1,860	102	415	362	2,012			11	1,196	2,992	27	308
29-Jul	288	27,984	172	4,468	75	3,568	405	21,054	652	29,090		1,860		415		2,012			11		2,992	308	
30-Jul	299	28,283	113	4,581	65	3,633	301	21,355	479	29,569		1,860		415		2,012			11		2,992	308	
31-Jul	369	28,652	126	4,707	68	3,701	645	22,000	839	30,408		1,860		415		2,012			11		2,992	308	
1-Aug	967	29,619	134	4,841	67	3,768	539	22,539	740	31,148	50	1,910	39	454	204	2,216			11	634	3,626	11	319
2-Aug	46	29,665	77	4,918	65	3,833	218	22,757	360	31,508		1,910		454		2,216			11		3,626	319	
3-Aug	23	29,688	83	5,001	45	3,878	126	22,883	254	31,762		1,910		454		2,216			11		3,626	319	
4-Aug	224	29,912	84	5,085	40	3,918	160	23,043	284	32,046	29	1,939	10	464	71	2,287			11	314	3,940	10	329

Table 7. Commercial chum salmon catch by area and date, Upper Cook Inlet, 1997.

Date	East Side Setnet											Northern District											
	Drift		Salamatof		K-Beach		Cohoe/Ninilchik		Total		Western		Kustatan		Kalgin Island		Chinitna Bay		West Side		East Side		
	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	
2-Jun																							
4-Jun																							
6-Jun																							
9-Jun																							
11-Jun																							
13-Jun																							
18-Jun																							
23-Jun																							
27-Jun	151	151										1	1										
30-Jun	340	491			2	2			2	2			1					2	2				
2-Jul	20	511					2			2			1							2			
4-Jul	1,527	2,038					2	1	1	3			1		1	1			4	6	1	1	
5-Jul	6	2,044					2		1	3			1			1				6		1	
7-Jul	2,033	4,077			1	3			1	4			1		5	6			62	68	2	3	
8-Jul	30	4,107			1	4		1	2	6			1			6				68		3	
9-Jul	54	4,161			1	5			2	7			1			6				68		3	
10-Jul	202	4,363			2	7			2	9			1			6				68		3	
11-Jul	331	4,694	10	10			7		2	19			1		3	9			102	170	7	10	
13-Jul	637	5,331	14	24	1	8	2	4	17	36			1			9				170		10	
14-Jul	6,871	12,202	14	38		8	1	5	15	51	21	22			1	10			498	668	70	80	
15-Jul		12,202		38		8			5	51		22				10			1	669		80	
17-Jul	484	12,686	2	40	1	9	1	6	4	55		22				10				669		80	
18-Jul	1,425	14,111	9	49	7	16	1	7	17	72	67	89			9	19	102	102		669		80	
19-Jul	1,655	15,766	6	55	68	84	47	54	121	193		89				19		102		669		80	
20-Jul	1,672	17,438	5	60	344	428	2	56	351	544		89				19		102	41	710		80	
21-Jul	1,663	19,101	11	71	3	431	3	59	17	561	84	173			73	92		102		710		80	
23-Jul	4,297	23,398	15	86	1	432	9	68	25	586		173				92		102		710		80	
24-Jul	4,782	28,180	22	108	6	438	12	80	40	626		173				92		102		710		80	
25-Jul	35,342	63,522	24	132	5	443	21	101	50	676	166	339			21	113		102	2,630	3,340	74	154	
26-Jul	1,268	64,790	32	164	8	451	20	121	60	736		339				113		102		3,340		154	
27-Jul	5,191	69,981	7	171	5	456	47	168	59	795		339				113		102		3,340		154	
28-Jul	1,829	71,810	15	186	5	461	24	192	44	839	338	677	6	6	44	157		102	1,710	5,050	49	203	
29-Jul	1,040	72,850	44	230	4	465	21	213	69	908		677				157		102		5,050		203	
30-Jul	536	73,386	9	239	4	469	15	228	28	936		677				157		102		5,050		203	
31-Jul	1,128	74,514	10	249	3	472	72	300	85	1,021		677				157		102		5,050		203	
1-Aug	11,558	86,072	27	276	6	478	39	339	72	1,093	443	1,120	3	9	23	180		102	1,702	6,752	208	411	
2-Aug	234	86,306	16	292	7	485	25	364	48	1,141		1,120				180		102		6,752		411	
3-Aug	152	86,458	8	300	18	503	15	379	41	1,182		1,120				180		102		6,752		411	
4-Aug	5,705	92,163	12	312	4	507	24	403	40	1,222	331	1,451	1	10	27	207		102	694	7,446	24	435	

Table 8. Commercial catch by gear, statistical area and species, Upper Cook Inlet, 1997.

Gear	District	Subdistrict	Stat Area	Permits	Chinook	Sockeye	Coho	Pink	Chum	Total	
Drift	Central	All	All	576	627	2,197,706	78,662	29,912	92,163	2,399,070	
Set Net	Central	Upper	24421	93	2,280	240,422	1,504	12,874	163	257,243	
			24422	105	2,872	405,545	3,037	10,169	240	421,863	
			24430	165	3,932	492,739	3,883	3,918	507	504,979	
			24440	129	2,197	694,110	11,244	5,085	312	712,948	
			All	429	11,281	1,832,816	19,668	32,046	1,222	1,897,033	
		Kalgin Is.	24610	18	25	17,526	7,360	1,675	189	26,775	
			24620	9	3	11,231	1,545	612	18	13,409	
			All	26	28	28,757	8,905	2,287	207	40,184	
		Chinitna	24510	2	0	172	11	11	102	296	
		Western	24520	3	0	338	295	1	86	720	
			24530	14	68	5,031	3,646	1,938	1,339	12,022	
			24540	1	6	102	15	0	0	123	
			24550	3	0	6,420	1,935	0	26	8,381	
			All	20	74	11,891	5,891	1,939	1,451	21,246	
		Kustatan	24555	13	86	2,408	0	0	0	2,494	
			24560	4	19	5,495	1,898	464	10	7,886	
			All	14	105	7,903	1,898	464	10	10,380	
		Northern	General	24710	21	262	8,454	1,965	272	94	11,047
				24720	32	275	15,519	7,472	1,034	740	25,040
	24730			29	159	39,926	16,865	2,187	4,225	63,362	
	24741			14	119	4,239	3,843	140	896	9,237	
	24742			7	71	2,373	1,140	48	258	3,890	
	24743			6	45	3,352	3,748	257	1,191	8,593	
	24750			29	1	13,224	117	2	42	13,386	
	All			92	932	87,087	35,150	3,940	7,446	134,555	
	Eastern		24770	20	160	5,000	2,054	213	430	7,857	
			24780	6	10	1,370	88	26	3	1,497	
24790			10	18	3,994	77	90	2	4,181		
All	36		188	10,364	2,219	329	435	13,535			
All	All		121	1,120	97,451	37,369	4,269	7,881	148,090		
All	All		All	582	12,608	1,978,990	73,742	41,016	10,873	2,117,229	
Seine	All		All	All	0	0	0	0	0	0	
All	All	All	All	1,158	13,235	4,176,696	152,404	70,928	103,036	4,516,299	

Table 9. Commercial salmon catch per permit by statistical area, Upper Cook Inlet, 1997.

Gear	District	Subdistrict	Stat Area	Permits	Clinook	Sockeye	Coho	Pink	Chum	Total
Drift	Central	All	All	576	1	3,815	137	52	160	4,165
Set Net	Central	Upper	24421	93	25	2,585	16	138	2	2,766
			24422	105	27	3,862	29	97	2	4,018
			24430	165	24	2,986	24	24	3	3,060
			24440	129	17	5,381	87	39	2	5,527
			All	429	26	4,272	46	75	3	4,422
		Kalgin Is.	24610	18	1	974	409	93	11	1,488
			24620	9	0	1,248	172	68	2	1,490
			All	26	1	1,106	343	88	8	1,546
		Chinitna	24510	2	0	86	6	6	51	148
			All	2	0	86	6	6	51	148
		Western	24520	3	0	113	98	0	29	240
			24530	14	5	359	260	138	96	859
			24540	1	6	102	15	0	0	123
			24550	3	0	2,140	645	0	9	2,794
	All		20	4	595	295	97	73	1,062	
	Kustatan	24555	13	7	185	0	0	0	192	
		24560	4	5	1,374	475	116	3	1,972	
		All	14	8	565	136	33	1	741	
	Northern	General	24710	21	12	403	94	13	4	526
			24720	32	9	485	234	32	23	783
			24730	29	5	1,377	582	75	146	2,185
			24741	14	9	303	275	10	64	660
			24742	7	10	339	163	7	37	556
24743			6	8	559	625	43	199	1,432	
24750			29	0	456	4	0	1	462	
All			92	10	947	382	43	81	1,463	
Eastern		24770	20	8	250	103	11	22	393	
		24780	6	2	228	15	4	1	250	
		24790	10	2	399	8	9	0	418	
All		36	5	288	62	9	12	376		
All		All	121	9	805	309	35	65	1,224	
All		All	All	582	22	3,400	127	70	19	3,638
Seine	All	All	All	0	0	0	0	0	0	
All	All	All	All	1,158	11	3,607	132	61	89	3,900

Table 10. Commercial fishery emergency orders issued during the 1997 Upper Cook Inlet season.

Emergency Order No.	Effective Date	Action	Reason
2S-01-97	June 4	Closed set gill netting in the Northern District on June 9, June 16, and June 23.	Poor chinook salmon returns to many streams.
2S-02-97	June 23	Opened set netting in the Northern District on June 23 from 7am. to 1pm.	Better than expected chinook escapements to many streams
2S-03-97	June 27	Opened the Kasilof Section for set netting from 7am. To 7pm. on June 27 and open for regularly scheduled fishing periods from that day on.	Attainment of 50,000 escapement of sockeye salmon in the Kasilof River as per 5 AAC. 21.310.
2S-04-97	June 30	Closed until further notice set netting in the Western Subdistrict south of Redoubt Point and drifting west of 152 degrees 25 minutes W.long.	Lagging escapement rate of Crescent River sockeye.
2S-05-97	July 2	Opened the Kasilof Section for set netting from 7am until 7pm on July 2 and drifting on July 2 from 7am to 7pm..	Reduce the escapement rate of Kasilof River sockeye.
2S-06-97	July 4	Opened the Kasilof Section for set netting on July 4 from 7pm until 10pm July 5 and drifting on July 4 from 7pm to 10pm. and on July 5 from 5 am to 10 pm	Reduce the escapement rate of Kasilof River sockeye.
2S-07-97	July 7	Opened the Kasilof Section for set netting on July 7 from 7pm until 10pm July 8 and drifting on July 7 from 7pm to 10pm. and on July 8 from 5 am to 10 pm	Reduce the escapement rate of Kasilof River sockeye.
2S-08-97	July 9	Opened the Kasilof Section for set netting on July 9 from 2pm until 6pm July 10 and drifting on July 9 from 2pm to 10pm. and on July 10 from 5 am to 6 pm	Reduce the escapement rate in Kasilof River.
2S-09-97	July 11	Closed drifting in all areas except in the Kenai and Kasilof Sections on Friday, July 11.	Reduce the exploitation of Susitna River sockeye.
2S-10-97	July 14	Rescinds Emergency Order Number 2S-04-97 and reopens set netting in the Western Subdistrict south of Redoubt Point and drifting west of 152 degrees 25 minutes W.long.	Minimum escapement levels in Crescent River assured and further protection of this stock unwarranted.
2S-11-97	July 13	Opened set netting in the Upper Subdistrict from 5am July 13 until 7am July 14 and drifting in the Kenai and Kasilof Sections on July 13 from 5am to 10pm and on July 14 from 5am to 7am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-12-97	July 17	Opened set netting in the Upper Subdistrict from 9am July 17 until 7am July 18 and drifting in the Kenai and Kasilof Sections on July 17 from 9am to 10pm and July 18 from 5am to 7am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-13-97	July 18	Closed drifting all areas except the Kenai or Kasilof Sections on Friday, July 18 from 7am to 7pm. Closed the Northern District on July 18.	Reduce the exploitation rate of sockeye salmon bound for the Susitna River.
2S-14-97	July 19	Opened set netting in the Upper Subdistrict from 3pm July 19 until 7pm July 20 and drifting in the Kenai and Kasilof Sections on July 19 from 3pm to 10 pm and on July 20 from 6am to 7pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-15-97	July 20	Opened set netting in the Upper Subdistrict from 7pm July 20 until 7am July 21 and drifting in the Kenai and Kasilof Sections on July 20 from 7pm to 10pm and July 21 from 6am to 7am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.

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Emergency Order No.	Effective Date	Action	Reason
2S-16-97	July 21	Closed drifting in all areas except the Kenai or Kasilof Sections on Friday, July 21 from 7am to 7pm. Closed the Northern District on July 21.	Reduce the exploitation rate of sockeye salmon bound for the Susitna River.
2S-17-97	July 22	Closed set netting in the Fish Creek harvest area in Knik arm on Tuesday July 22.	Reduce the exploitation of sockeye salmon bound for Fish Creek.
2S-18-97	July 23	Opened set netting in the Upper Subdistrict from 12pm July 23 until 3pm July 24 and drifting in the Kenai and Kasilof Sections on July 23 from 12pm to 10pm and July 24 from 6am to 3pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-19-97	July 24	Opened set netting in the Upper Subdistrict from 3pm July 24 until 7am July 25 and drifting in the Kenai and Kasilof Sections on July 24 from 3pm to 10pm and July 25 from 6am to 7am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-20-97	July 25	Opened set netting in the Upper Subdistrict from 7pm July 25 until 10pm July 26 and drifting in the Kenai and Kasilof Sections on July 25 from 7pm to 10pm and July 26 from 6am to 10pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-21-97	July 26	Opened set netting in the Upper Subdistrict from 10pm July 26 until 7am July 28 and drifting in the Kenai and Kasilof Sections on July 27 from 6am to 10pm and on July 28 from 6am to 7am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-22-97	July 28	Opened set netting in the Upper Subdistrict from 10pm July 26 until 7am July 28 and drifting in the Kenai and Kasilof Sections on July 27 from 6am to 10pm and on July 28 from 6am to 7am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-23-97	July 29	Opened set netting in the Upper Subdistrict from 10pm July 29 until 10pm July 30 and drifting in the Kenai and Kasilof Sections on July 30 from 6am to 10pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-24-97	July 30	Opened set netting in the Upper Subdistrict from 10pm July 29 until 10pm July 30 and drifting in the Kenai and Kasilof Sections on July 30 from 6am to 10pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof rivers.
2S-25-97	August 1	Opened set netting in the Upper Subdistrict from 7pm August 1 until 7am August 4 and drifting in the Kenai and Kasilof Sections on August 1 from 7pm to 10pm, on August 2 from 6am to 10 pm, on August 3 from 6am to 10 pm and on August 4 from 6 am to 7am.	Increase the harvest rate of Sockeye salmon bound for the Kenai and Kasilof rivers.
2S-26-97	August 7	Closed all commercial salmon fishing in Upper Cook Inlet for the remainder of the 1997 season.	Poor coho salmon returns to all Upper Cook Inlet streams.

Table 11. Commercial salmon fishing periods, Upper Cook Inlet, 1997.

Date	Day	Time	Set Gill Net	Drift Gill Net
2-Jun	Monday	0700-1900 0700-1300	Big River Area Northern District	
4-Jun	Wednesday	0700-1900	Big River Area	
6-Jun	Friday	0700-1900	Big River Area	
9-Jun	Monday	0700-1900	Big River Area	
11-Jun	Wednesday	0700-1900	Big River Area	
13-Jun	Friday	0700-1900	Big River Area	
16-Jun	Monday	0700-1900	Big River Area, Western	
18-Jun	Wednesday	0700-1900	Big River Area	
20-Jun	Friday	0700-1900	Big River Area, Western	
23-Jun	Monday	0700-1900 0700-1300	Big River Area, Western Northern District	
27-Jun	Friday	0700-1900	All except Kenai, East Forelands Sections	All
30-Jun	Monday	0700-1900	All except Kenai, East Forelands Sections and Western south of Redoubt Pt.	All except west of 152.25
2-Jul	Wednesday	0700-1900	Kasilof Section	Kasilof Section
4-Jul	Friday	0700-1900 1900-2400 1900-2200	All except Kenai, East Forelands Sections and Western south of Redoubt Pt. Kasilof Section	All except west of 152.25 Kasilof Section
5-Jul	Saturday	0000-2200 0500-2200	Kasilof Section	Kasilof Section
7-Jul	Monday	0700-1900 1900-2400 1900-2200	All except Kenai, East Forelands Sections and Western south of Redoubt Pt. Kasilof Section	All except west of 152.25 Kasilof Section
8-Jul	Tuesday	0000-2200 0500-2200	Kasilof Section	Kasilof Section
9-Jul	Wednesday	1400-2400 1400-2200	Kasilof Section	Kasilof Section
10-Jul	Thursday	0000-1800 0500-1800	Kasilof Section	Kasilof Section
11-Jul	Friday	0700-1900	All except Western S. of Redoubt Pt.	Kenai, Kasilof Sections only
13-Jul	Sunday	0500-2400 0500-2200	Upper Subdistrict	Kenai & Kasilof Sections
14-Jul	Monday	0000-0700 0500-0700 0700-1900	Upper Subdistrict All	Kenai & Kasilof Sections All
15-Jul	Tuesday	0700-1900	Knik Arm	

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Date	Day	Time	Set Gill Net	Drift Gill Net
17-Jul	Thursday	0900-2400 0900-2200	Upper Subdistrict	Kenai & Kasilof Sections
18-Jul	Friday	0000-0700 0500-0700 0700-1900	Upper Subdistrict All except Northern District	Kenai & Kasilof Sections Kenai & Kasilof Sections Only
19-Jul	Saturday	1500-2400 1500-2200	Upper Subdistrict	Kenai & Kasilof Sections
20-Jul	Sunday	0000-2400 0700-1900 0600-2200	Upper Subdistrict Knik Arm	Kenai & Kasilof Sections
21-Jul	Monday	0000-0700 0060-0070 0700-1900	Upper Subdistrict All except Northern District	Kenai & Kasilof Sections Kenai & Kasilof Sections Only
23-Jul	Wednesday	1200-2400 1200-2200	Upper Subdistrict	Kenai & Kasilof Sections
24-Jul	Thursday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
25-Jul	Friday	0000-0700 0600-0700 0700-1900 1900-2400 1900-2200	Upper Subdistrict All Upper Subdistrict	Kenai & Kasilof Sections All Kenai & Kasilof Sections
26-Jul	Saturday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
27-Jul	Sunday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
28-Jul	Monday	0000-0700 0600-0700 0700-1900 1900-2400 1900-2200	Upper Subdistrict All Upper Subdistrict	Kenai & Kasilof Sections Kenai & Kasilof Sections Kenai & Kasilof Sections
29-Jul	Tuesday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
30-Jul	Wednesday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
31-Jul	Thursday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
1-Aug	Friday	0000-0700 0600-0700 0700-1900 1900-2400 1900-2200	Upper Subdistrict All Upper Subdistrict	Kenai & Kasilof Sections All Kenai & Kasilof Sections
2-Aug	Saturday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
3-Aug	Sunday	0000-2400 0600-2200	Upper Subdistrict	Kenai & Kasilof Sections
4-Aug	Monday	0000-0700 0600-0700 0700-1900	Upper Subdistrict All	Kenai & Kasilof Sections All

Table 12. Age composition (in percent) of sockeye salmon escapements, Upper Cook Inlet, 1997.

Stream	Age Class											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3
Kenai River	0.0	0.1	0.3	7.6	0.4	75.2	2.8	0.4	13.0	0.1	0.1	0.0
Kasilof River	0.0	0.0	0.0	21.1	0.0	54.7	13.5	0.0	10.7	0.0	0.0	0.0
Yentna River	1.1	0.1	10.5	32.4	0.1	43.7	4.7	0.1	7.2	0.0	0.0	0.1
Crescent River	0.0	0.0	0.0	10.6	0.2	55.9	6.6	0.0	26.6	0.0	0.2	0.0
Fish Creek	0.0	0.2	0.0	58.8	0.0	27.7	7.9	0.2	5.2	0.0	0.0	0.0
Packers Creek	0.0	0.0	0.0	6.1	0.0	0.6	19.3	0.0	70.9	2.6	0.4	0.2

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Table 13. Upper Cook Inlet salmon average weights (in pounds) by area, 1997.¹

Fishery	CHINOOK	SOCKEYE	COHO	PINK	CHUM
Upper Cook Inlet Total	27.60	6.55	6.33	3.38	7.32
Northern District Total	19.51	6.12	6.52	3.52	7.37
Northern District West	19.48	6.13	6.54	3.49	7.40
Trading Bay 247-10	19.85	6.13	6.74	3.52	6.93
Tyonek 247-20	19.35	6.64	6.67	3.34	7.29
Beluga 247-30	17.79	6.52	6.27	3.62	7.46
Susitna Flat 247-41	20.24	5.08	6.89	3.31	7.80
Pt. Mackenzie 247-42	21.69	5.05	6.75	2.79	7.58
Fire Island 247-43	18.51	5.63	7.02	3.23	6.97
Knik Arm 247-50	24.00	5.05	6.26	3.50	6.93
Northern District East	19.66	5.95	6.24	3.88	6.92
Pt. Possession 247-70	19.88	6.06	6.26	3.95	6.90
Birch Hill 247-80	15.10	6.10	5.69	4.50	7.33
Number 3 Bay 247-90	20.22	5.76	6.18	3.51	10.50
Central District Total	28.35	6.56	6.27	3.38	7.31
Upper Subdistrict Set Total	28.97	6.40	6.20	3.26	6.41
Salamatof 244-40	33.96	6.89	6.18	3.46	6.48
Kalifonsky Beach 244-30	27.97	6.20	6.09	3.25	6.92
Cohoe 244-22	26.22	6.14	6.24	3.15	6.07
Ninilchik 244-21	29.35	5.80	6.60	3.26	5.20
Western Subdistrict Set Total	24.41	5.46	6.32	3.65	7.72
Little Jack Slough 245-50		5.06	6.13		7.81
Polly Creek 245-40	31.67	6.78	6.67		
Tuxedni Bay 245-30	23.76	5.91	6.38	3.65	7.68
Silver Salmon 245-20		6.15	6.74	5.00	8.41
Kustatan Total	24.90	6.07	6.27	3.44	7.90
Big River 245-55	26.41	4.89			
West Foreland 245-60	18.11	6.59	6.27	3.44	7.90
Kalgin Island Total	26.64	5.65	6.32	3.45	7.31
West Side 246-10	25.20	5.85	6.33	3.43	7.33
East Side 246-20	38.67	5.34	6.24	3.52	7.11
Chinitna Bay Set Total		6.22	6.64	4.45	5.00
Central District Set Total	28.90	6.38	6.25	3.29	7.07
Central District Drift Total	18.35	6.71	6.28	3.48	7.32

¹ Pounds of fish divided by the numbers of fish from commercial harvest fishtickets.

Table 14. Buyers and processors of Upper Cook Inlet fishery products, 1997.

Buyer/Processor	Plant Site	Contact	Address
Carlson Seafoods F1232-6	Kasilof	Dorina Carlson	HC2 Box 544 Kasilof Ak. 99610
Coal Point Trading F1757	Homer	Nancy Hillstrand	P.O. 674 Homer, Ak. 99603
Cook Inlet Processing F0186-3	Kenai	Pat Hardina	Box 8163 Nikiski Ak. 99635
Deep Creek Custom Packing F1051-5	Ninilchik	Jeff Berger	P.O. Box 39229 Ninilchik Ak. 99639
Dragnet Fisheries F0030-4	Kenai	Mike Mecune	P.O. Box 1260 Kenai Ak. 99615
Fishhawk Fisheries F1540-1	Kenai	Steve Frick	P.O. Box 715 Astoria Or. 97103
Great Pacific Seafoods F1678	Anchorage	Roger Styles	P.O. 81165 Seattle, Wa. 98108
Icele Seafoods F0133-0	Homer	Dennis Guhike	P.O. Box 79003 Seattle Wa. 98119
Inlet Fisheries Inc. F1039-7	Kenai	Patrick Klier	P.O. Box 530 Kenai Ak. 99611
North Alaska Fisheries F1681-7	Wasilla	Jack Schulteis	P.O. Box 877351 Wasilla Ak. 99687
Pacific Alaska Seafoods F0130-7	Nikiski	Jerry Cartee	P.O. Box 7498 Nikiski Ak. 99635
Pacific Star Seafoods F1834	Kenai	Dan Foley	2300 Eastlake Ave. E. Seattle, Wa. 98102
Port Graham Seafoods Inc. f 2309	Port Graham	Jay lind	P.O. Box 60003 Shoreline, Wa. 98160
R & J Enterprises F0838-6	Kasilof	Juanita Meier	Box 165 Kasilof Ak. 99610
Royal Pacific Fisheries F0409-1	Kenai	Marvin Dragseth	P.O. Box 4609 Kenai Ak. 99611
Sahalee of Alaska F1485	Anchorage	Christa Lind	P.O. 104174 Anchorage, Ak. 99510
Salamatof Seafoods F0037-1	Kenai	Wylie Reed	P.O. Box 5070 Kenai Ak. 99615
Seasonal Seafoods F0998-7	Kasilof	Baily Wharton	4039 21st Ave. Seattle Wa. 98199
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	Bill Brindle	P.O. Box C-5030 Seattle Wa. 98105-0030
10th & M Seafoods F0528	Anchorage	Bill Nix	1020 M Street Anchorage, Ak. 99501

Table 15. Reported personal use harvest by gear, area and species, Upper Cook Inlet, 1997.

Fishery	Number of Households	Harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Did Not Fish	5,686						
Kasilof Gillnet	514	62	16,838	1	18	3	16,922
Kasilof Dip Net	532	33	9,082	87	95	18	9,315
Kenai Dip Net	5,754	339	107,577	520	578	53	109,067
Fish Creek Dip Net	373	0	3,052	59	47	4	3,162
Unkown	232	13	4,309	109	28	15	4,474
Permit Not Returned	1,208	-	-	-	-	-	-
Total	14,919	447	140,858	776	766	93	142,940

Does not include educational or subsistence fishery harvests. Harvest data is not expanded for those permits (approximately 8.1 percent) that were not returned as required. Data is preliminary.

Table 16. Seldovia District tide tables, April-September, 1997.

APRIL											MAY												
HIGH TIDES					LOW TIDES					HIGH TIDES					LOW TIDES								
Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet
1	Tue	8:01	14.9	9:44	13.8	1	Tue	1:59	6.1	2:53	2.4	1	Thur	10:13	14.7	11:21	16.0	1	Thur	4:13	4.4	4:42	1.5
2	Wed	9:29	15.0	10:56	15.2	2	Wed	3:27	5.7	4:14	1.7	2	Fri	11:34	15.5	-----	-----	2	Fri	5:28	2.7	5:49	0.9
3	Thur	10:50	16.2	11:52	17.0	3	Thur	4:46	4.0	5:20	0.3	3	Sat	0:18	17.5	12:41	16.8	3	Sat	6:30	0.6	6:46	0.2
4	Fri	11:56	17.8	-----	-----	4	Fri	5:48	1.8	6:14	-1.0	4	Sun	1:08	19.0	1:38	18.1	4	Sun	7:23	-1.5	7:35	-0.4
5	Sat	0:39	18.9	12:52	19.4	5	Sat	6:40	-0.6	7:01	-2.1	5	Mon	1:52	20.2	2:29	19.1	5	Mon	8:10	-3.2	8:21	-0.7
6	Sun	2:21	20.5	2:41	20.7	6	Sun	8:27	-2.6	8:45	-2.7	6	Tue	2:34	21.0	3:16	19.7	6	Tue	8:55	-4.3	9:05	-0.7
7	Mon	3:02	21.7	3:28	21.3	7	Mon	9:12	-4.0	9:27	-2.6	7	Wed	3:14	21.3	4:00	19.8	7	Wed	9:37	-4.7	9:47	-0.2
8	Tue	3:41	22.2	4:13	21.2	8	Tue	9:55	-4.6	10:09	-2.0	8	Thur	3:54	21.0	4:44	19.3	8	Thur	10:19	-4.4	10:29	0.7
9	Wed	4:20	22.0	4:58	20.4	9	Wed	10:38	-4.4	10:50	-0.8	9	Fri	4:33	20.2	5:27	18.4	9	Fri	11:00	-3.5	11:11	1.8
10	Thur	4:59	21.1	5:43	19.1	10	Thur	11:21	-3.5	11:32	0.8	10	Sat	5:13	18.9	6:12	17.2	10	Sat	11:41	-2.2	11:55	3.1
11	Fri	5:39	19.6	6:30	17.4	11	Fri	-----	-----	12:05	-1.9	11	Sun	5:54	17.3	6:59	15.9	11	Sun	-----	-----	12:24	-0.6
12	Sat	6:21	17.8	7:22	15.6	12	Sat	0:16	2.6	12:52	-0.1	12	Mon	6:38	15.7	7:51	14.8	12	Mon	0:42	4.4	1:11	1.1
13	Sun	7:07	15.9	8:22	14.1	13	Sun	1:05	4.4	1:45	1.7	13	Tue	7:30	14.1	8:49	14.0	13	Tue	1:36	5.5	2:04	2.6
14	Mon	8:04	14.2	9:37	13.2	14	Mon	2:04	5.9	2:51	3.2	14	Wed	8:34	12.9	9:53	13.7	14	Wed	2:42	6.2	3:07	3.7
15	Tue	9:18	13.0	11:00	13.2	15	Tue	3:21	6.8	4:11	4.0	15	Thur	9:51	12.3	10:55	14.0	15	Thur	4:01	6.2	4:16	4.2
16	Wed	10:47	12.8	-----	-----	16	Wed	4:53	6.6	5:28	3.9	16	Fri	11:10	12.5	11:47	14.7	16	Fri	5:16	5.3	5:19	4.3
17	Thur	0:05	13.9	12:04	13.4	17	Thur	6:05	5.5	6:24	3.4	17	Sat	-----	-----	12:15	13.3	17	Sat	6:12	4.0	6:11	3.9
18	Fri	0:51	14.9	12:58	14.6	18	Fri	6:54	4.1	7:05	2.7	18	Sun	0:29	15.6	1:06	14.4	18	Sun	6:56	2.5	6:55	3.4
19	Sat	1:25	16.1	1:40	15.7	19	Sat	7:32	2.6	7:41	2.0	19	Mon	1:06	16.7	1:50	15.6	19	Mon	7:33	1.0	7:35	2.9
20	Sun	1:55	17.2	2:18	16.9	20	Sun	8:06	1.2	8:14	1.5	20	Tue	1:42	17.8	2:30	16.6	20	Tue	8:09	-0.4	8:13	2.4
21	Mon	2:25	18.2	2:54	17.7	21	Mon	8:39	-0.1	8:47	1.1	21	Wed	2:17	18.7	3:09	17.4	21	Wed	8:45	-1.6	8:51	2.0
22	Tue	2:55	19.0	3:29	18.3	22	Tue	9:11	-1.1	9:20	1.0	22	Thur	2:53	19.4	3:49	18.0	22	Thur	9:21	-2.6	9:30	1.8
23	Wed	3:25	19.5	4:05	18.5	23	Wed	9:44	-1.8	9:54	1.1	23	Fri	3:29	19.8	4:29	18.1	23	Fri	9:59	-3.2	10:10	1.8
24	Thur	3:57	19.7	4:43	18.3	24	Thur	10:18	-2.1	10:30	1.5	24	Sat	4:08	19.8	5:11	18.0	24	Sat	10:38	-3.3	10:52	2.1
25	Fri	4:30	19.5	5:22	17.7	25	Fri	10:55	-2.1	11:07	2.2	25	Sun	4:50	19.4	5:56	17.5	25	Sun	11:20	-3.1	11:38	2.5
26	Sat	5:06	18.9	6:05	16.8	26	Sat	11:34	-1.6	11:49	3.1	26	Mon	5:35	18.6	6:45	17.0	26	Mon	-----	-----	12:06	-2.4
27	Sun	5:46	18.1	6:54	15.8	27	Sun	-----	-----	12:18	-0.9	27	Tue	6:27	17.4	7:39	16.5	27	Tue	0:30	3.0	12:57	-1.3
28	Mon	6:34	16.9	7:53	15.0	28	Mon	0:37	4.0	1:10	0.1	28	Wed	7:27	16.1	8:39	16.2	28	Wed	1:29	3.5	1:54	-0.2
29	Tue	7:34	15.7	9:01	14.6	29	Tue	1:36	4.8	2:12	1.0	29	Thur	8:38	15.0	9:42	16.3	29	Thur	2:38	3.5	3:00	0.9
30	Wed	8:49	14.8	10:14	15.0	30	Wed	2:50	5.0	3:26	1.5	30	Fri	9:57	14.5	10:45	16.8	30	Fri	3:54	2.9	4:09	1.6
												31	Sat	11:16	14.8	11:44	17.7	31	Sat	5:07	1.6	5:17	1.8

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June										July													
HIGH TIDES					LOW TIDES					HIGH TIDES					LOW TIDES								
Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet
1	Sun	---	---	12:27	15.6	1	Sun	6:11	0.0	6:18	1.7	1	Tue	0:11	17.8	1:18	15.6	1	Tue	6:52	-0.9	6:52	3.2
2	Mon	0:37	18.6	1:27	16.6	2	Mon	7:06	-1.6	7:11	1.4	2	Wed	1:05	18.3	2:11	16.5	2	Wed	7:42	-1.9	7:44	2.9
3	Tue	1:25	19.4	2:19	17.6	3	Tue	7:55	-2.9	8:00	1.2	3	Thur	1:52	18.8	2:56	17.3	3	Thur	8:27	-2.5	8:30	2.5
4	Wed	2:10	20.0	3:05	18.2	4	Wed	8:39	-3.7	8:45	1.2	4	Fri	2:36	19.1	3:36	17.8	4	Fri	9:07	-2.9	9:13	2.3
5	Thur	2:52	20.2	3:49	18.5	5	Thur	9:21	-4.1	9:28	1.3	5	Sat	3:16	19.2	4:14	18.1	5	Sat	9:45	-2.9	9:53	2.2
6	Fri	3:32	20.0	4:30	18.4	6	Fri	10:01	-3.8	10:10	1.7	6	Sun	3:54	19.0	4:50	18.1	6	Sun	10:21	-2.6	10:32	2.4
7	Sat	4:11	19.4	5:11	18.0	7	Sat	10:41	-3.2	10:52	2.4	7	Mon	4:32	18.6	5:25	17.8	7	Mon	10:56	-1.9	11:10	2.7
8	Sun	4:51	18.4	5:51	17.3	8	Sun	11:19	-2.2	11:34	3.1	8	Tue	5:09	17.8	6:00	17.3	8	Tue	11:31	-1.0	11:50	3.2
9	Mon	5:31	17.3	6:32	16.5	9	Mon	11:58	-1.0	---	---	9	Wed	5:48	16.8	6:36	16.8	9	Wed	---	---	12:06	0.2
10	Tue	6:12	16.0	7:15	15.7	10	Tue	0:17	4.0	12:39	0.4	10	Thur	6:29	15.6	7:13	16.1	10	Thur	0:30	3.8	12:43	1.5
11	Wed	6:59	14.6	8:01	15.0	11	Wed	1:04	4.8	1:22	1.8	11	Fri	7:15	14.3	7:53	15.5	11	Fri	1:15	4.4	1:23	2.9
12	Thur	7:52	13.3	8:51	14.5	12	Thur	1:59	5.4	2:10	3.1	12	Sat	8:09	13.1	8:39	15.1	12	Sat	2:06	4.8	2:09	4.2
13	Fri	8:57	12.4	9:44	14.4	13	Fri	3:02	5.6	3:07	4.2	13	Sun	9:16	12.3	9:32	14.9	13	Sun	3:07	5.0	3:05	5.3
14	Sat	10:11	12.1	10:37	14.7	14	Sat	4:13	5.2	4:09	4.8	14	Mon	10:34	12.1	10:30	15.2	14	Mon	4:17	4.6	4:12	5.9
15	Sun	11:25	12.4	11:29	15.3	15	Sun	5:19	4.2	5:11	5.0	15	Tue	11:51	12.7	11:29	15.9	15	Tue	5:26	3.5	5:21	5.9
16	Mon	---	---	12:29	13.3	16	Mon	6:13	2.9	6:06	4.8	16	Wed	---	---	12:54	13.9	16	Wed	6:24	2.0	6:22	5.3
17	Tue	0:16	16.3	1:21	14.5	17	Tue	6:59	1.3	6:56	4.2	17	Thur	0:25	17.0	1:45	15.4	17	Thur	7:13	0.3	7:16	4.2
18	Wed	1:01	17.3	2:07	15.7	18	Wed	7:40	-0.2	7:42	3.5	18	Fri	1:17	18.3	2:30	16.9	18	Fri	7:58	-1.5	8:05	3.0
19	Thur	1:43	18.4	2:50	16.9	19	Thur	8:20	-1.7	8:26	2.7	19	Sat	2:06	19.6	3:12	18.3	19	Sat	8:41	-3.0	8:51	1.7
20	Fri	2:26	19.4	3:32	17.8	20	Fri	9:00	-3.0	9:09	2.1	20	Sun	2:53	20.7	3:54	19.4	20	Sun	9:23	-4.2	9:37	0.6
21	Sat	3:09	20.1	4:14	18.5	21	Sat	9:41	-3.9	9:53	1.6	21	Mon	3:40	21.3	4:35	20.1	21	Mon	10:06	-4.7	10:23	-0.1
22	Sun	3:53	20.4	4:56	18.8	22	Sun	10:23	-4.3	10:39	1.3	22	Tue	4:27	21.4	5:18	20.4	22	Tue	10:49	-4.5	11:11	-0.4
23	Mon	4:38	20.2	5:41	18.8	23	Mon	11:07	-4.1	11:26	1.3	23	Wed	5:16	20.7	6:01	20.3	23	Wed	11:33	-3.7	---	---
24	Tue	5:27	19.5	6:27	18.6	24	Tue	11:52	-3.4	---	---	24	Thur	6:07	19.5	6:47	19.7	24	Thur	0:01	-0.3	12:19	-2.2
25	Wed	6:19	18.3	7:16	18.1	25	Wed	0:18	1.5	12:40	-2.2	25	Fri	7:02	17.8	7:37	18.9	25	Fri	0:54	0.2	1:09	-0.4
26	Thur	7:17	16.9	8:10	17.7	26	Thur	1:15	1.8	1:33	-0.7	26	Sat	8:04	16.0	8:32	17.9	26	Sat	1:54	0.9	2:04	1.7
27	Fri	8:23	15.5	9:08	17.3	27	Fri	2:18	2.0	2:32	0.9	27	Sun	9:17	14.6	9:34	17.1	27	Sun	3:02	1.5	3:07	3.4
28	Sat	9:37	14.5	10:09	17.2	28	Sat	3:30	1.9	3:37	2.2	28	Mon	10:40	13.9	10:43	16.7	28	Mon	4:18	1.7	4:21	4.6
29	Sun	10:58	14.2	11:12	17.4	29	Sun	4:44	1.3	4:47	3.1	29	Tue	12:04	14.2	11:51	16.8	29	Tue	5:34	1.3	5:36	5.0
30	Mon	---	---	12:14	14.7	30	Mon	5:52	0.3	5:53	3.4	30	Wed	---	---	1:11	15.1	30	Wed	6:39	0.5	6:41	4.6
												31	Thur	0:51	17.3	2:02	16.1	31	Thur	7:31	-0.4	7:34	4.0

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August										September														
HIGH TIDES					LOW TIDES					HIGH TIDES					LOW TIDES									
Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	Date	Day	A.M. Time	Feet	P.M. Time	Feet	
1	Fri	1:41	17.9	2:43	17.0	1	Fri	8:14	-1.1	8:19	3.2	1	Mon	2:46	18.8	3:21	18.8	1	Mon	9:01	-0.5	9:13	1.5	
2	Sat	2:24	18.5	3:19	17.8	2	Sat	8:51	-1.6	8:58	2.6	2	Tue	3:20	19.3	3:48	19.3	2	Tue	9:31	-0.6	9:46	1.0	
3	Sun	3:02	18.9	3:51	18.3	3	Sun	9:26	-1.8	9:35	2.1	3	Wed	3:53	19.4	4:16	19.5	3	Wed	10:01	-0.3	10:18	0.8	
4	Mon	3:38	19.1	4:22	18.6	4	Mon	9:58	-1.7	10:10	1.9	4	Thur	4:27	19.2	4:44	19.4	4	Thur	10:31	0.3	10:50	1.0	
5	Tue	4:13	19.0	4:52	18.6	5	Tue	10:30	-1.3	10:45	1.9	5	Fri	5:01	18.5	5:13	18.9	5	Fri	11:02	1.2	11:23	1.4	
6	Wed	4:48	18.6	5:23	18.4	6	Wed	11:02	-0.6	11:20	2.2	6	Sat	5:37	17.5	5:43	18.2	6	Sat	11:34	2.3	11:58	2.0	
7	Thur	5:24	17.8	5:54	17.9	7	Thur	11:34	0.5	11:56	2.7	7	Sun	6:15	16.2	6:16	17.4	7	Sun	-----	-----	12:08	3.7	
8	Fri	6:01	16.7	6:26	17.3	8	Fri	-----	-----	12:07	1.7	8	Mon	7:00	14.9	6:54	16.4	8	Mon	0:37	2.8	12:48	5.1	
9	Sat	6:42	15.4	7:01	16.5	9	Sat	0:34	3.3	12:42	3.1	9	Tue	7:58	13.6	7:45	15.5	9	Tue	1:25	3.6	1:38	6.4	
10	Sun	7:29	14.0	7:42	15.8	10	Sun	1:16	3.9	1:22	4.6	10	Wed	9:16	12.9	8:56	14.9	10	Wed	2:30	4.2	2:50	7.3	
11	Mon	8:30	12.9	8:33	15.2	11	Mon	2:09	4.5	2:14	5.9	11	Thur	10:46	13.2	10:20	15.2	11	Thur	3:54	4.1	4:19	7.2	
12	Tue	9:49	12.3	9:38	15.0	12	Tue	3:18	4.6	3:24	6.8	12	Fri	12:00	14.6	11:38	16.4	12	Fri	5:16	3.0	5:37	5.9	
13	Wed	11:16	12.7	10:50	15.5	13	Wed	4:37	4.1	4:44	6.8	13	Sat	-----	-----	12:54	16.4	13	Sat	6:20	1.3	6:39	3.8	
14	Thur	12:28	14.0	11:59	16.7	14	Thur	5:50	2.7	5:57	5.9	14	Sun	0:43	18.2	1:39	18.4	14	Sun	7:11	-0.5	7:31	1.5	
15	Fri	-----	-----	1:22	15.7	15	Fri	6:47	0.9	6:56	4.4	15	Mon	1:37	20.0	2:20	20.3	15	Mon	7:57	-2.0	8:17	-0.6	
16	Sat	0:58	18.3	2:07	17.5	16	Sat	7:36	-1.0	7:47	2.5	16	Tue	2:27	21.5	3:00	21.8	16	Tue	8:40	-3.0	9:02	-2.4	
17	Sun	1:51	20.0	2:48	19.3	17	Sun	8:20	-2.7	8:35	0.7	17	Wed	3:14	22.4	3:40	22.7	17	Wed	9:23	-3.4	9:47	-3.5	
18	Mon	2:40	21.4	3:29	20.7	18	Mon	9:03	-3.9	9:20	-0.8	18	Thur	4:01	22.6	4:20	22.9	18	Thur	10:05	-2.9	10:32	-3.7	
19	Tue	3:27	22.2	4:09	21.6	19	Tue	9:45	-4.4	10:06	-1.8	19	Fri	4:48	21.9	5:01	22.4	19	Fri	10:47	-1.8	11:17	-3.2	
20	Wed	4:15	22.3	4:50	22.0	20	Wed	10:28	-4.1	10:52	-2.2	20	Sat	5:36	20.6	5:43	21.2	20	Sat	11:31	-0.1	-----	-----	
21	Thur	5:02	21.7	5:31	21.7	21	Thur	11:11	-3.1	11:39	-1.9	21	Sun	6:27	18.8	6:29	19.5	21	Sun	0:05	-1.9	12:18	1.9	
22	Fri	5:52	20.3	6:15	20.8	22	Fri	11:55	-1.4	-----	-----	22	Mon	7:24	16.8	7:20	17.5	22	Mon	0:57	-0.1	1:10	4.0	
23	Sat	6:45	18.5	7:02	19.4	23	Sat	0:30	-1.0	12:43	0.7	23	Tue	8:32	15.1	8:24	15.7	23	Tue	1:58	1.7	2:14	5.9	
24	Sun	7:44	16.5	7:56	17.9	24	Sun	1:26	0.3	1:36	2.9	24	Wed	9:58	14.2	9:45	14.6	24	Wed	3:13	3.1	3:38	6.9	
25	Mon	8:55	14.8	8:59	16.5	25	Mon	2:30	1.6	2:40	4.8	25	Thur	11:26	14.4	11:15	14.5	25	Thur	4:42	3.6	5:11	6.7	
26	Tue	10:22	14.0	10:16	15.6	26	Tue	3:49	2.5	3:59	6.0	26	Fri	-----	-----	12:32	15.3	26	Fri	5:56	3.2	6:21	5.6	
27	Wed	11:51	14.2	11:36	15.6	27	Wed	5:13	2.5	5:24	6.1	27	Sat	0:25	15.3	1:16	16.3	27	Sat	6:49	2.6	7:08	4.3	
28	Thur	-----	-----	12:58	15.2	28	Thur	6:23	1.9	6:33	5.4	28	Sun	1:14	16.4	1:50	17.3	28	Sun	7:28	1.9	7:45	3.0	
29	Fri	0:42	16.3	1:45	16.2	29	Fri	7:15	1.1	7:24	4.3	29	Mon	1:53	17.4	2:18	18.3	29	Mon	8:01	1.3	8:18	1.8	
30	Sat	1:31	17.2	2:22	17.2	30	Sat	7:56	0.4	8:05	3.3	30	Tue	2:27	18.3	2:45	19.1	30	Tue	8:31	0.9	8:49	0.8	
31	Sun	2:11	18.1	2:53	18.1	31	Sun	8:30	-0.1	8:40	2.3													

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Appendix A.1. Upper Cook Inlet commercial chinook salmon harvest by gear type and area, 1966-1997.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
	Number	%	East Side		Kalgin/West Side		Number	%	
			Number	%	Number	%			
1966	392	4.6	7,329	85.8	401	4.7	422	4.9	8,544
1967	489	6.3	6,646	85.0	500	6.4	184	2.4	7,819
1968	182	4.0	3,304	72.8	579	12.8	471	10.4	4,536
1969	362	2.9	5,834	47.1	3,286	26.5	2,904	23.4	12,386
1970	367	4.4	5,366	64.3	1,152	13.8	1,460	17.5	8,345
1971	237	1.2	7,055	35.7	2,875	14.5	9,598	48.6	19,765
1972	375	2.3	8,599	53.5	2,199	13.7	4,913	30.5	16,086
1973	244	4.7	4,411	84.9	369	7.1	170	3.3	5,194
1974	422	6.4	5,571	84.5	434	6.6	169	2.6	6,596
1975	250	5.2	3,675	76.8	733	15.3	129	2.7	4,787
1976	690	6.4	8,249	75.9	1,469	13.5	457	4.2	10,865
1977	3,411	23.1	9,732	65.8	1,084	7.3	565	3.8	14,792
1978	2,072	12.0	12,468	72.1	2,093	12.1	666	3.8	17,299
1979	1,089	7.9	8,671	63.1	2,264	16.5	1,714	12.5	13,738
1980	889	6.4	9,643	69.9	2,273	16.5	993	7.2	13,798
1981	2,320	19.0	8,358	68.3	837	6.8	725	5.9	12,240
1982	1,293	6.2	13,658	65.4	3,203	15.3	2,716	13.0	20,870
1983	1,125	5.5	15,043	72.9	3,534	17.1	933	4.5	20,635
1984	1,377	13.7	6,165	61.3	1,516	15.1	1,004	10.0	10,062
1985	2,048	8.5	17,723	73.6	2,427	10.1	1,890	7.8	24,088
1986	1,834	4.7	19,810	50.5	2,108	5.4	15,488	39.5	39,240
1987	4,552	11.5	21,379	53.9	1,029	2.6	12,701	32.0	39,661
1988	2,217	7.6	12,870	44.3	1,137	3.9	12,836	44.2	29,060
1989	0	0.0	10,919	40.8	3,092	11.6	12,731	47.6	26,742
1990	621	3.9	4,139	25.7	1,763	10.9	9,582	59.5	16,105
1991	241	1.8	4,891	36.1	1,544	11.4	6,859	50.7	13,535
1992	615	3.6	10,718	62.4	1,284	7.5	4,554	26.5	17,171
1993	746	4.0	13,977	74.7	719	3.8	3,277	17.5	18,719
1994	460	2.3	15,885	78.4	730	3.6	3,185	15.7	20,260
1995	594	3.3	12,032	67.4	1,101	6.2	4,130	23.1	17,857
1996	387	2.7	11,521	80.9	395	2.8	1,945	13.7	14,248
1997	627	4.7	11,281	85.2	207	1.6	1,120	8.5	13,235
Average	1,017	6.3	9,904	65.0	1,511	10.1	3,765	18.7	16,196

Appendix A.2. Upper Cook Inlet commercial sockeye salmon harvest by gear type and area, 1966-1997.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
	Number	%	East Side		Kalgin/West Side		Number	%	
			Number	%	Number	%			
1966	1,103,261	59.6	485,330	26.2	132,443	7.2	131,080	7.1	1,852,114
1967	890,152	64.6	303,858	22.0	66,414	4.8	118,065	8.6	1,378,489
1968	561,737	50.8	317,535	28.7	85,049	7.7	140,575	12.7	1,104,896
1969	371,747	53.7	210,834	30.5	71,184	10.3	38,050	5.5	691,815
1970	460,690	62.9	142,701	19.5	62,723	8.6	66,458	9.1	732,572
1971	423,107	66.5	111,505	17.5	61,144	9.6	40,533	6.4	636,289
1972	506,281	57.5	204,599	23.3	83,176	9.5	85,755	9.7	879,811
1973	375,695	56.1	188,816	28.2	59,973	8.9	45,614	6.8	670,098
1974	265,771	53.5	136,889	27.5	52,962	10.7	41,563	8.4	497,185
1975	368,124	53.8	177,336	25.9	73,765	10.8	65,526	9.6	684,751
1976	1,055,786	63.4	476,376	28.6	62,338	3.7	69,649	4.2	1,664,149
1977	1,073,098	52.3	751,178	36.6	104,265	5.1	123,780	6.0	2,052,321
1978	1,803,479	68.8	660,797	25.2	105,767	4.0	51,378	2.0	2,621,421
1979	454,707	49.1	248,359	26.8	108,422	11.7	113,918	12.3	925,406
1980	770,247	48.9	559,812	35.6	137,882	8.8	105,647	6.7	1,573,588
1981	633,380	44.0	496,003	34.5	60,217	4.2	249,662	17.3	1,439,262
1982	2,103,429	64.5	971,423	29.8	66,952	2.1	118,060	3.6	3,259,864
1983	3,222,428	63.8	1,508,511	29.9	134,575	2.7	184,219	3.6	5,049,733
1984	1,235,337	58.6	490,273	23.3	162,139	7.7	218,965	10.4	2,106,714
1985	2,032,957	50.1	1,561,200	38.4	285,081	7.0	181,191	4.5	4,060,429
1986	2,834,534	59.2	1,657,904	34.6	153,714	3.2	141,830	3.0	4,787,982
1987	5,631,746	59.3	3,495,802	36.8	208,036	2.2	164,602	1.7	9,500,186
1988	4,129,878	60.4	2,428,597	35.5	146,154	2.1	129,713	1.9	6,834,342
1989	3	0.0	4,543,066	90.7	186,828	3.7	280,801	5.6	5,010,698
1990	2,305,742	64.0	1,116,975	31.0	84,949	2.4	96,398	2.7	3,604,064
1991	1,117,514	51.3	844,156	38.8	99,705	4.6	116,201	5.3	2,177,576
1992	6,069,495	66.6	2,838,076	31.2	131,291	1.4	69,478	0.8	9,108,340
1993	2,558,492	53.8	1,941,706	40.8	108,181	2.3	146,319	3.1	4,754,698
1994	1,878,463	52.7	1,482,957	41.6	85,830	2.4	120,142	3.4	3,567,392
1995	1,773,873	60.3	961,216	32.7	96,735	3.3	109,098	3.7	2,940,922
1996	2,204,933	56.7	1,482,998	38.1	96,719	2.5	104,128	2.7	3,888,778
1997	2,197,706	52.6	1,832,816	43.9	48,723	1.2	97,451	2.3	4,176,696
Average	1,637,931	55.6	1,082,175	32.9	106,979	5.5	117,683	6.0	2,944,768

Appendix A.3. Upper Cook Inlet commercial coho salmon harvest by gear type and area, 1966-1997

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
	Number	%	East Side		Kalgin/West Side		Number	%	
			Number	%	Number	%			
1966	80,901	27.9	68,877	23.8	59,509	20.5	80,550	27.8	289,837
1967	53,071	29.9	40,738	22.9	40,066	22.5	43,854	24.7	177,729
1968	167,383	35.8	80,828	17.3	63,301	13.5	156,648	33.5	468,160
1969	33,053	32.8	18,988	18.9	28,231	28.0	20,425	20.3	100,697
1970	114,070	40.9	30,114	10.8	52,299	18.7	82,722	29.6	279,205
1971	35,491	35.4	16,589	16.5	26,188	26.1	22,094	22.0	100,362
1972	21,577	26.7	24,673	30.5	15,300	18.9	19,346	23.9	80,896
1973	31,784	30.4	23,901	22.9	24,784	23.7	23,951	22.9	104,420
1974	75,640	37.8	36,837	18.4	40,610	20.3	47,038	23.5	200,125
1975	88,579	40.0	46,209	20.9	53,537	24.2	33,051	14.9	221,376
1976	80,712	38.7	47,873	22.9	42,243	20.2	37,835	18.1	208,663
1977	110,184	57.2	23,693	12.3	38,093	19.8	20,623	10.7	192,593
1978	76,259	34.8	34,134	15.6	61,711	28.2	47,089	21.5	219,193
1979	114,496	43.2	29,284	11.0	68,306	25.8	53,078	20.0	265,164
1980	89,510	33.0	40,281	14.8	51,527	19.0	90,098	33.2	271,416
1981	226,366	46.6	36,024	7.4	88,390	18.2	134,625	27.7	485,405
1982	416,274	52.5	108,393	13.7	182,205	23.0	85,352	10.8	792,224
1983	326,965	63.3	37,694	7.3	97,796	18.9	53,867	10.4	516,322
1984	213,423	47.4	37,166	8.3	84,618	18.8	114,786	25.5	449,993
1985	357,388	53.6	70,657	10.6	147,331	22.1	91,837	13.8	667,213
1986	506,405	66.9	76,385	10.1	85,932	11.4	88,108	11.6	756,830
1987	202,306	44.8	74,977	16.6	74,930	16.6	98,920	21.9	451,404
1988	277,703	49.6	55,419	9.9	77,058	13.8	149,742	26.7	560,022
1989	743	0.2	81,744	24.1	81,004	23.9	175,710	51.8	339,201
1990	247,453	49.4	40,351	8.1	73,429	14.7	139,401	27.8	500,634
1991	175,504	41.2	30,435	7.1	87,515	20.6	132,270	31.1	425,724
1992	267,300	57.0	57,078	12.2	53,400	11.4	91,133	19.4	468,911
1993	121,828	39.7	43,075	14.0	35,661	11.6	106,258	34.6	306,822
1994	306,217	52.7	69,281	11.9	61,005	10.5	144,064	24.8	580,567
1995	241,473	54.0	44,750	10.0	71,431	16.0	89,300	20.0	446,954
1996	171,361	53.3	40,548	12.6	31,405	9.8	78,097	24.3	321,411
1997	78,662	51.6	19,668	12.9	16,705	11.0	37,369	24.5	152,404
Average	165,940	42.8	46,458	14.9	62,985	18.8	80,914	23.5	356,309

Appendix A.4. Upper Cook Inlet commercial pink salmon harvest by gear type and area, 1966-1997.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
	Number	%	East Side		Kalgin/West Side		Number	%	
			Number	%	Number	%			
1966	593,654	29.6	969,624	48.3	70,507	3.5	371,960	18.5	2,005,745
1967	7,475	23.3	12,900	40.2	3,256	10.1	8,460	26.4	32,091
1968	880,512	38.7	785,887	34.5	75,755	3.3	534,839	23.5	2,276,993
1969	8,233	25.3	10,968	33.7	5,711	17.6	7,587	23.3	32,499
1970	334,737	41.1	281,067	34.5	24,763	3.0	174,193	21.4	814,760
1971	6,433	18.1	18,097	50.8	2,637	7.4	8,423	23.7	35,590
1972	115,117	18.3	403,706	64.2	18,913	3.0	90,830	14.5	628,566
1973	91,901	28.2	80,596	24.7	16,437	5.0	137,250	42.1	326,184
1974	140,432	29.0	291,408	60.2	9,014	1.9	42,876	8.9	483,730
1975	113,868	33.9	112,423	33.4	19,086	5.7	90,953	27.0	336,330
1976	599,594	47.7	479,024	38.1	30,030	2.4	148,080	11.8	1,256,728
1977	286,308	51.7	125,817	22.7	25,212	4.6	116,518	21.0	553,855
1978	934,442	55.3	372,601	22.1	54,785	3.2	326,614	19.3	1,688,442
1979	19,554	26.8	19,983	27.4	7,061	9.7	26,382	36.1	72,980
1980	964,526	54.0	299,444	16.8	47,963	2.7	474,488	26.6	1,786,421
1981	53,888	42.4	15,654	12.3	4,276	3.4	53,325	41.9	127,143
1982	270,380	34.2	432,715	54.7	14,242	1.8	73,307	9.3	790,644
1983	26,629	37.9	18,309	26.0	3,785	5.4	21,604	30.7	70,327
1984	273,565	44.3	220,895	35.8	16,708	2.7	106,284	17.2	617,452
1985	34,228	39.0	17,715	20.2	5,653	6.4	30,232	34.4	87,828
1986	614,453	47.3	530,445	40.8	15,460	1.2	139,002	10.7	1,299,360
1987	38,660	35.2	47,707	43.4	5,229	4.8	18,205	16.6	109,801
1988	226,776	48.3	179,092	38.1	9,890	2.1	54,210	11.5	469,968
1989	1	0.0	37,971	56.3	5,580	8.3	23,878	35.4	67,430
1990	323,955	53.7	225,429	37.3	10,302	1.7	43,944	7.3	603,630
1991	5,791	39.5	2,670	18.2	1,049	7.2	5,153	35.1	14,663
1992	423,738	60.9	244,068	35.1	4,248	0.6	23,805	3.4	695,859
1993	46,457	46.0	41,674	41.3	2,313	2.3	10,468	10.4	100,918
1994	251,602	48.3	236,582	45.5	3,116	0.6	29,181	5.6	520,481
1995	64,632	48.4	53,420	40.0	3,810	2.9	11,713	8.8	133,575
1996	122,728	50.5	95,717	39.4	3,792	1.6	20,674	8.5	242,911
1997	29,912	42.2	32,046	45.2	4,701	6.6	4,269	6.0	70,928
Average	247,006	38.7	209,239	36.9	16,415	4.5	100,897	19.9	573,557

Appendix A.5. Upper Cook Inlet commercial chum salmon harvest by gear type and area, 1966-1997.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
	Number	%	East Side		Kalgin/West Side		Number	%	
			Number	%	Number	%			
1966	424,972	79.8	7,461	1.4	64,725	12.1	35,598	6.7	532,756
1967	233,041	78.5	399	0.1	25,013	8.4	38,384	12.9	296,837
1968	1,022,900	90.7	1,563	0.1	44,986	4.0	58,454	5.2	1,127,903
1969	238,497	89.1	399	0.1	16,954	6.3	11,836	4.4	267,686
1970	678,448	90.4	1,228	0.2	48,591	6.5	22,507	3.0	750,774
1971	274,567	84.8	128	0.0	32,647	10.1	16,603	5.1	323,945
1972	564,726	90.2	1,727	0.3	40,179	6.4	19,780	3.2	626,412
1973	605,738	90.7	1,965	0.3	29,019	4.3	30,851	4.6	667,573
1974	344,496	86.8	506	0.1	15,346	3.9	36,492	9.2	396,840
1975	886,474	93.2	980	0.1	33,347	3.5	30,787	3.2	951,588
1976	405,769	86.5	1,484	0.3	47,882	10.2	14,045	3.0	469,180
1977	1,153,454	93.5	1,413	0.1	54,708	4.4	23,861	1.9	1,233,436
1978	489,119	85.5	4,563	0.8	40,946	7.2	37,151	6.5	571,779
1979	609,239	93.8	867	0.1	30,342	4.7	9,310	1.4	649,758
1980	339,970	87.7	2,147	0.6	28,970	7.5	16,728	4.3	387,815
1981	756,922	91.0	2,386	0.3	26,461	3.2	46,208	5.6	831,977
1982	1,348,510	94.1	4,777	0.3	36,647	2.6	43,006	3.0	1,432,940
1983	1,044,636	93.7	2,822	0.3	38,079	3.4	29,321	2.6	1,114,858
1984	568,097	83.5	3,695	0.5	34,207	5.0	74,727	11.0	680,726
1985	700,848	90.7	4,133	0.5	31,746	4.1	36,122	4.7	772,849
1986	1,012,028	89.2	7,027	0.6	39,078	3.4	76,040	6.7	1,134,173
1987	211,580	60.6	16,608	4.8	53,558	15.3	67,180	19.3	348,926
1988	580,650	81.9	11,841	1.7	40,354	5.7	75,728	10.7	708,573
1989	72	0.1	12,302	10.1	27,705	22.7	81,948	67.2	122,027
1990	289,521	82.4	4,611	1.3	21,355	6.1	35,710	10.2	351,197
1991	215,469	76.9	2,387	0.9	22,974	8.2	39,393	14.1	280,223
1992	232,955	84.9	2,867	1.0	13,180	4.8	25,301	9.2	274,303
1993	88,823	72.4	2,977	2.4	5,566	4.5	25,401	20.7	122,767
1994	245,854	82.1	2,944	1.0	10,443	3.5	40,059	13.4	299,300
1995	468,224	88.4	3,711	0.7	13,820	2.6	43,667	8.2	529,422
1996	140,924	90.1	1,448	0.9	2,314	1.5	11,771	7.5	156,457
1997	92,163	89.4	1,222	1.2	1,770	1.7	7,881	7.6	103,036
Average	508,396	83.5	3,581	1.0	30,404	6.2	36,308	9.3	578,689

Appendix A.6. Upper Cook Inlet commercial salmon harvest by species, 1954-1997.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1954	63,780	1,207,046	321,525	2,189,207	510,068	4,291,626
1955	45,926	1,027,528	170,777	101,680	248,343	1,594,254
1956	64,977	1,258,789	198,189	1,595,375	782,051	3,899,381
1957	42,158	643,712	125,434	21,228	1,001,470	1,834,002
1958	22,727	477,392	239,765	1,648,548	471,697	2,860,129
1959	32,651	612,676	106,312	12,527	300,319	1,064,485
1960	27,512	923,314	311,461	1,411,605	659,997	3,333,889
1961	19,737	1,162,303	117,778	34,017	349,628	1,683,463
1962	20,210	1,147,573	350,324	2,711,689	970,582	5,200,378
1963	17,536	942,980	197,140	30,436	387,027	1,575,119
1964	4,531	970,055	452,654	3,231,961	1,079,084	5,738,285
1965	9,741	1,412,350	153,619	23,963	316,444	1,916,117
1966	8,544	1,852,114	289,837	2,005,745	532,756	4,688,996
1967	7,859	1,380,062	177,729	32,229	296,837	1,894,716
1968	4,536	1,104,904	469,850	2,278,197	1,119,114	4,976,601
1969	12,397	692,175	100,777	33,383	269,847	1,108,579
1970	8,336	732,605	275,399	814,895	776,229	2,607,464
1971	19,765	636,303	100,636	35,624	327,029	1,119,357
1972	16,086	879,824	80,933	628,574	630,103	2,235,520
1973	5,194	670,098	104,420	326,184	667,573	1,773,469
1974	6,596	497,185	200,125	483,730	396,840	1,584,476
1975	4,787	684,752	227,379	336,333	951,796	2,205,047
1976	10,865	1,664,150	208,695	1,256,728	469,802	3,610,240
1977	14,790	2,052,291	192,599	553,855	1,233,722	4,047,257
1978	17,299	2,621,421	219,193	1,688,442	571,779	5,118,134
1979	13,738	924,415	265,166	72,982	650,357	1,926,658
1980	13,798	1,573,597	271,418	1,786,430	390,675	4,035,918
1981	12,240	1,439,277	484,411	127,164	833,542	2,896,634
1982	20,870	3,259,864	793,937	790,648	1,433,866	6,299,185
1983	20,634	5,049,733	516,322	70,327	1,114,858	6,771,874
1984	10,062	2,106,714	449,993	617,452	680,726	3,864,947
1985	24,088	4,060,429	667,213	87,828	772,849	5,612,407
1986	39,240	4,787,982	756,830	1,299,360	1,134,173	8,017,585
1987	39,661	9,500,186	451,404	109,801	349,139	10,450,191
1988	29,060	6,834,342	560,022	469,972	708,573	8,601,969
1989	26,742	5,010,698	339,201	67,430	122,027	5,566,098
1990	16,105	3,604,064	500,634	603,630	351,197	5,075,630
1991	13,535	2,177,576	425,724	14,663	280,223	2,911,721
1992	17,171	9,108,340	468,911	695,859	274,303	10,564,584
1993	18,719	4,754,698	306,822	100,918	122,767	5,303,924
1994	20,260	3,567,392	580,567	520,481	299,300	4,988,000
1995	17,857	2,951,827	446,954	133,575	529,422	4,079,635
1996	14,248	3,888,778	321,411	242,911	156,457	4,623,805
1997	13,235	4,176,696	152,404	70,928	103,036	4,516,299
Average						
44 Year	20,223	2,409,778	321,634	712,921	582,446	4,047,001
10 Year	18,693	4,607,441	410,265	292,037	294,731	5,623,167

Appendix A. 7. Approximate exvessel value of Upper Cook Inlet commercial salmon harvest by species, 1960-1997.

Year	Chinook	%	Sockeye	%	Coho	%	Pink	%	Chum	%	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	4.0%	\$ 1,296,697	73.9%	\$ 134,003	7.6%	\$ 18,291	1.0%	\$ 236,404	13.5%	\$ 1,755,394
1970	\$ 89,382	3.0%	\$ 1,190,303	39.9%	\$ 468,179	15.7%	\$ 456,354	15.3%	\$ 780,622	26.2%	\$ 2,984,840
1971	\$ 189,504	9.2%	\$ 1,250,771	61.0%	\$ 137,815	6.7%	\$ 18,402	0.9%	\$ 454,483	22.2%	\$ 2,050,974
1972	\$ 224,396	6.3%	\$ 1,863,177	52.6%	\$ 137,315	3.9%	\$ 478,246	13.5%	\$ 840,057	23.7%	\$ 3,543,192
1973	\$ 121,156	2.0%	\$ 3,225,847	52.3%	\$ 318,950	5.2%	\$ 362,658	5.9%	\$ 2,135,025	34.6%	\$ 6,163,635
1974	\$ 209,712	3.2%	\$ 3,072,221	46.8%	\$ 843,048	12.8%	\$ 919,916	14.0%	\$ 1,517,637	23.1%	\$ 6,562,535
1975	\$ 63,990	1.0%	\$ 2,628,036	39.2%	\$ 838,859	12.5%	\$ 419,173	6.3%	\$ 2,752,555	41.1%	\$ 6,702,612
1976	\$ 274,172	2.0%	\$ 8,668,095	63.4%	\$ 819,006	6.0%	\$ 1,874,915	13.7%	\$ 2,041,225	14.9%	\$ 13,677,413
1977	\$ 523,776	2.4%	\$ 13,318,720	61.8%	\$ 932,540	4.3%	\$ 767,273	3.6%	\$ 5,995,611	27.8%	\$ 21,537,920
1978	\$ 661,375	2.0%	\$ 26,167,741	80.3%	\$ 1,380,312	4.2%	\$ 2,154,176	6.6%	\$ 2,217,510	6.8%	\$ 32,581,114
1979	\$ 616,360	4.2%	\$ 8,093,280	55.3%	\$ 1,640,277	11.2%	\$ 82,339	0.6%	\$ 4,199,765	28.7%	\$ 14,632,021
1980	\$ 414,771	3.2%	\$ 7,937,699	61.7%	\$ 891,098	6.9%	\$ 2,114,283	16.4%	\$ 1,513,960	11.8%	\$ 12,871,810
1981	\$ 424,390	2.3%	\$ 11,080,411	60.1%	\$ 2,623,598	14.2%	\$ 170,038	0.9%	\$ 4,150,158	22.5%	\$ 18,448,596
1982	\$ 763,267	2.4%	\$ 25,154,115	80.0%	\$ 4,080,570	13.0%	\$ 553,635	1.8%	\$ 886,129	2.8%	\$ 31,437,716
1983	\$ 590,730	2.0%	\$ 24,016,294	81.8%	\$ 1,601,976	5.5%	\$ 41,338	0.1%	\$ 3,109,814	10.6%	\$ 29,360,152
1984	\$ 310,899	1.8%	\$ 12,450,532	71.8%	\$ 2,039,681	11.8%	\$ 522,795	3.0%	\$ 2,011,253	11.6%	\$ 17,335,160
1985	\$ 799,318	2.3%	\$ 27,497,929	80.0%	\$ 3,359,824	9.8%	\$ 57,412	0.2%	\$ 2,644,995	7.7%	\$ 34,359,478
1986	\$ 915,189	2.0%	\$ 38,683,950	83.3%	\$ 2,909,043	6.3%	\$ 724,367	1.6%	\$ 3,197,973	6.9%	\$ 46,430,522
1987	\$ 1,609,777	1.6%	\$ 95,915,522	94.9%	\$ 2,373,254	2.3%	\$ 84,439	0.1%	\$ 1,116,165	1.1%	\$ 101,099,156
1988	\$ 1,120,885	0.9%	\$ 111,537,736	91.3%	\$ 4,738,463	3.9%	\$ 650,931	0.5%	\$ 4,129,002	3.4%	\$ 122,177,017
1989	\$ 803,494	1.4%	\$ 56,194,753	95.0%	\$ 1,674,393	2.8%	\$ 86,012	0.1%	\$ 415,535	0.7%	\$ 59,174,188
1990	\$ 436,822	1.1%	\$ 35,804,485	88.0%	\$ 2,422,214	6.0%	\$ 512,591	1.3%	\$ 1,495,827	3.7%	\$ 40,671,938
1991	\$ 348,522	2.3%	\$ 12,249,200	80.4%	\$ 1,996,049	13.1%	\$ 5,478	0.0%	\$ 643,400	4.2%	\$ 15,242,649
1992	\$ 634,466	0.6%	\$ 96,026,864	96.0%	\$ 2,261,862	2.3%	\$ 404,772	0.4%	\$ 740,294	0.7%	\$ 100,068,258
1993	\$ 617,092	2.1%	\$ 27,969,409	93.1%	\$ 1,081,175	3.6%	\$ 36,935	0.1%	\$ 322,205	1.1%	\$ 30,026,815
1994	\$ 642,291	1.9%	\$ 29,441,442	85.5%	\$ 3,297,865	9.6%	\$ 240,545	0.7%	\$ 831,121	2.4%	\$ 34,453,264
1995	\$ 474,475	2.2%	\$ 19,168,077	87.1%	\$ 1,295,353	5.9%	\$ 53,114	0.2%	\$ 1,023,926	4.7%	\$ 22,014,944
1996	\$ 402,980	1.4%	\$ 28,238,578	95.0%	\$ 800,423	2.7%	\$ 44,386	0.1%	\$ 225,751	0.8%	\$ 29,712,117
1997	\$ 365,316	1.1%	\$ 31,439,536	97.1%	\$ 434,327	1.3%	\$ 12,004	0.0%	\$ 143,244	0.4%	\$ 32,394,427

Appendix A.8. Commercial herring harvest by fishery, Upper Cook Inlet, 1973-1997.

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	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	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	211.8
1990	55.4	55.9	16.1	127.4
1991	13.4	15.7	1.6	30.7
1992	24.7	10.4	0	35.1
1993	0	0	0	0
1994	0	0	0	0
1995	0	0	0	0
1996	0	0	0	0
1997	0	0	0	0

Appendix A.9. Commercial harvest of razor clams in Cook Inlet, 1919-1997.

Year	Pounds	Year	Pounds
1919	76,963	1959	0
1920	11,952	1960	372,872
1921	72,000	1961	277,830
1922	510,432	1962	195,650
1923	470,280	1963	0
1924	156,768	1964	0
1925	0	1965	0
1926	0	1966	0
1927	25,248	1967	0
1928	0	1968	0
1929	0	1969	0
1930	0	1970	0
1931	No Record	1971	14,755
1932	93,840	1972	31,360
1933	No Record	1973	34,415
1934	No Record	1974	0
1935	No Record	1975	10,020
1936	No Record	1976	0
1937	8,328	1977	1,762
1938	No Record	1978	45,931
1939	No Record	1979	144,358
1940	No Record	1980	140,420
1941	0	1981	441,949
1942	0	1982	460,639
1943	0	1983	269,618
1944	0	1984	261,742
1945	15,000	1985	319,034
1946	11,424	1986	258,632
1947	11,976	1987	312,349
1948	2,160	1988	392,610
1949	9,672	1989	222,747
1950	304,073	1990	323,602
1951	112,320	1991	201,320
1952	0	1992	296,727
1953	0	1993	310,289
1954	0	1994	355,165
1955	0	1995	248,358
1956	0	1996	355,448
1957	0	1997	366,532
1958	0		

Appendix A.10. Enumeration goals and counts of sockeye salmon in selected Streams of Upper Cook Inlet, 1968-1997.

Year	Kenai River		Kasilof River		Fish Creek	
	Enumeration	Enumeration	Enumeration	Enumeration	Enumeration	Enumeration
	Goal	Estimate ¹	Goal	Estimate ¹	Goal	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	N/C	75,000	N/C	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
1975	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	68,739
1980	350,000-500,000	464,000	75,000-150,000	187,000	0	62,828
1981	350,000-500,000	408,000	75,000-150,000	257,000	0	50,479
1982	350,000-500,000	620,000	75,000-150,000	180,000	50,000	28,164
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	75,000-150,000	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	71,603
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	50,000
1991	400,000-700,000	645,000	150,000-250,000	238,000	50,000	50,500
1992	400,000-700,000	994,760	150,000-250,000	183,178	50,000	71,385
1993	400,000-700,000	813,617	150,000-250,000	149,939	50,000	117,619
1994	400,000-700,000	1,003,446	150,000-250,000	205,117	50,000	95,107
1995	450,000-700,000	628,760	150,000-250,000	205,902	50,000	115,000
1996	550,000-800,000	797,847	150,000-250,000	249,944	50,000	63,160
1997	550,000-825,000	1,064,818	150,000-250,000	266,025	50,000	54,656

Year	Susitna River		Crescent River		Packers Creek	
	Enumeration	Enumeration	Enumeration	Enumeration	Enumeration	Enumeration
	Goal	Estimate ¹	Goal	Estimate ¹	Goal	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	16,477
1981	200,000	340,000	50,000	41,000	0	13,024
1982	200,000	216,000 ³	50,000	59,000	0	15,687
1983	200,000	112,000 ⁴	50,000	92,000	0	18,403
1984	200,000	279,000 ⁵	50,000	118,000	0	30,684
1985	200,000	228,000 ⁵	50,000	129,000	0	36,850
1986	100,000-150,000 ⁶	92,000 ⁶	50,000	N/C	0	29,604
1987	100,000-150,000 ⁶	66,000 ⁶	50,000-100,000	119,000	0	35,401
1988	100,000-150,000 ⁶	52,347 ⁶	50,000-100,000	57,716	15,000-25,000	18,607
1989	100,000-150,000 ⁶	96,269 ⁶	50,000-100,000	71,064	15,000-25,000	22,304
1990	100,000-150,000 ⁶	140,379 ⁶	50,000-100,000	52,180	15,000-25,000	31,868
1991	100,000-150,000 ⁶	105,000 ⁶	50,000-100,000	44,500	15,000-25,000	41,275
1992	100,000-150,000 ⁶	66,057 ⁶	50,000-100,000	58,227	15,000-25,000	28,361
1993	100,000-150,000 ⁶	141,694 ⁶	50,000-100,000	37,556	15,000-25,000	40,869
1994	100,000-150,000 ⁶	128,032 ⁶	50,000-100,000	30,355	15,000-25,000	30,788
1995	100,000-150,000 ⁶	121,479 ⁶	50,000-100,000	52,250	15,000-25,000	29,473
1996	100,000-150,000 ⁶	90,781 ⁶	50,000-100,000	28,729	15,000-25,000	19,095
1997	100,000-150,000 ⁶	157,822 ⁶	50,000-100,000	70,768	15,000-25,000	33,846

¹ Derived from sonar counters unless otherwise noted.

² Weir Counts.

³ Poor field conditions make this a minimum estimate; mark/recapture estimate from Su-Hydro studies was 265,000.

⁴ Minimum estimate, combining Yentna River sonar with Sunshine Station mark/recapture estimate yields 176,000.

⁵ Yentna River sonar count combined with Sunshine Station mark/recapture estimate yields 176,000.

⁶ Yentna River only.

Appendix A.11. Average price paid for commercially harvested salmon,
Upper Cook Inlet, 1969-1997.

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
1993	1.20	1.00	0.60	0.12	0.45
1994	1.00	1.45	0.80	0.12	0.40
1995	1.00	1.15	0.45	0.12	0.27
1996	1.00	1.15	0.40	0.05	0.19
1997	1.00	1.15	0.45	0.05	0.19

Price is expressed as dollars per pound.

Data Source: 1969-1983- Commercial Fisheries Entry Commission
1984-1997 Random fishticket averages, does not include bonuses
or post season adjustments.

Appendix A.12. Average weight¹ (in pounds) of commercially harvested salmon, Upper Cook Inlet, 1969-1997.

Year	Chinook	Sockeye	Coho	Pink	Chum
1969	17.11	6.69	7.00	3.91	7.30
1970	26.81	5.80	6.80	4.00	7.18
1971	25.91	6.55	6.52	3.44	9.26
1972	29.68	6.23	6.28	4.00	6.67
1973	37.62	7.41	6.11	3.71	7.61
1974	36.13	6.79	6.38	4.13	7.22
1975	24.75	6.09	6.83	3.56	7.05
1976	27.43	6.85	6.43	4.03	8.05
1977	28.11	7.55	6.72	3.65	7.97
1978	32.96	7.56	6.36	3.75	7.60
1979	27.52	6.21	6.31	3.32	7.34
1980	26.14	5.93	5.76	3.48	7.33
1981	23.75	6.42	6.53	3.52	7.66
1982	28.80	7.01	7.14	3.89	8.24
1983	29.51	6.43	6.89	3.27	7.75
1984	28.61	5.91	7.08	4.03	7.58
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
1993	27.47	5.88	5.87	3.05	5.83
1994	31.70	5.69	7.10	3.85	6.94
1995	26.57	5.65	6.44	3.31	7.16
1996	28.28	6.31	6.23	3.65	7.59
1997	27.60	6.55	6.33	3.38	7.32
Average	27.50	6.40	6.55	3.61	7.38

¹ Total poundage divided by numbers of fish from fishticket totals.

Appendix A.13. Registered units of gillnet fishing effort by gear type in Cook Inlet . 1960-1997.

Year	Resident	Non-Resident	Sub-Total	Resident	Non-Resident	Sub-Total	Total
1960	221	67	288	511	59	570	858
1961	279	93	372	564	22	586	958
1962	260	112	372	589	28	617	989
1963	333	139	472	626	34	660	1,132
1964	323	145	468	596	35	631	1,099
1965	329	145	474	556	34	590	1,064
1966	328	176	504	580	48	628	1,132
1967	350	186	536	554	50	604	1,140
1968	407	204	611	638	43	681	1,292
1969	497	208	705	686	42	728	1,433
1970	537	220	757	707	65	772	1,529
1971	519	191	710	693	38	731	1,441
1972	419	152	571	672	35	707	1,278
1973	516	146	662	632	43	675	1,337
1974	458	150	608	764	39	803	1,411
1975	291	162	453	613	44	657	1,110
1976	343	171	514	669	42	711	1,225
1977	360	179	539	690	41	731	1,270
1978	366	183	549	698	44	742	1,291
1979	372	182	554	700	44	744	1,298
1980	373	179	552	697	47	744	1,296
1981	414	185	599	688	59	747	1,346
1982	416	175	591	697	51	748	1,339
1983	417	170	587	685	60	745	1,332
1984	426	162	588	672	72	744	1,332
1985	420	170	590	666	65	731	1,321
1986	436	178	614	682	76	758	1,372
1987	422	164	586	666	77	743	1,329
1988	421	163	584	659	82	741	1,325
1989	420	165	585	648	95	743	1,328
1990	408	174	582	648	97	745	1,327
1991	414	168	582	643	98	741	1,323
1992	405	178	583	638	107	745	1,328
1993	400	182	582	634	106	740	1,322
1994	392	187	579	620	117	737	1,316
1995	391	186	577	618	120	738	1,315
1996	393	189	582	622	123	745	1,327
1997	393	188	581	622	123	745	1,326

Source: 1960-1974 ADF&G unpublished reports, 1975-1997 Commercial Fisheries Entry Commission.

Appendix A.14. Forecast¹ and projected² commercial harvests of salmon by species, Upper Cook Inlet, 1984-1997.

Year	Sockeye			Coho			Pink			Chum			Chinook		
	Forecast	Actual	Error	Projected	Actual	Error	Projected	Actual	Error	Projected	Actual	Error	Projected	Actual	Error
1984	2,200,000	2,102,767	-4%	250,000	442,619	77%	1,700,000	622,510	-63%	350,000	684,124	95%	14,000	8,819	-37%
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	38%
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	21%
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	32%
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	-17%
1989	2,500,000	5,010,698	100%	400,000	339,201	-15%	100,000	67,430	-33%	800,000	122,027	-85%	30,000	26,742	-11%
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	-36%
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	4,754,698	90%	450,000	306,822	-32%	25,000	100,918	304%	350,000	122,767	-65%	15,000	18,719	25%
1994	2,000,000	3,567,392	78%	400,000	580,567	45%	600,000	520,481	-13%	250,000	299,300	20%	15,000	20,260	35%
1995	2,700,000	2,951,827	9%	400,000	446,954	12%	100,000	133,575	34%	250,000	529,422	131%	15,000	17,857	19%
1996	3,300,000	3,888,778	18%	400,000	321,411	-20%	600,000	242,911	-60%	350,000	156,457	-56%	15,000	14,248	-5%
1997	5,300,000	4,176,696	-21%	400,000	152,404	-62%	100,000	70,928	-29%	250,000	103,036	-59%	15,000	13,235	-12%
1998	2,500,000			300,000			300,000			200,000			17,000		

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¹ 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 or combinations of these data sets.

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

Appendix A. 15. Subsistence and personal use salmon harvest, Upper Cook Inlet, 1980-1997.

Fishery	No. of Permits	Chinook	Sockeye	Coho	Pink	Chum
<u>Tyonek Subsistence</u>						
1980	67	1,936	262	0	0	0
1981	70	2,002	269	64	32	15
1982	69	1,565	209	113	15	4
1983	75	2,750	185	40	0	2
1984	75	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	0	1
1990	42	797	92	366	124	10
1991	57	1,105	25	80	0	0
1992	57	905	74	234	7	19
1993	53	1,247	43	36	11	9
1994	49	840	41	111	0	22
1995	55	1,271	45	123	14	15
1996	49	1,032	65	110	21	18
1997	42	642	94	127	0	8
<u>Non-Commercial Gillnet</u>						
1981	1,108	68	466	12,713	149	305
<u>Kasilof Personal Use</u>						
1982	649	372	7,543	24	17	0
1983	684	307	8,846	0	0	0
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	0	0	0
1991	N/A	34	8,380	0	0	0
1993	N/A	47	7,942	0	0	0
1996	349	45	9,161	0	12	1
1997	514	62	16,838	1	18	3
<u>Fall Coho Personal Use/Subsistence</u>						
1983	295	0	0	712	0	0
1984	309	1	2	2,261	10	7
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	0	8
1993	535	0	0	1,168	23	0
<u>Northern/Central Districts Subsistence/ Personal Use</u>						
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
1994	10,127	1,501	53,333	12,181	2,975	1,729
1995	9,300	1,415	61,602	11,186	1,454	1,734
<u>Knik Arm Subsistence</u>						
1985	405	4	1,649	2,055	48	212

