Fishery Management Report No. 04-12

The Alitak Bay District Commercial Salmon Fishery Report to the Alaska Board of Fisheries, 2005

by

Jeff A. Wadle

December 2004

Alaska Department of Fish and Game Divisions of Sport Fish and Commercial Fisheries

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Weights and measures (metric)

centimeter	cm
deciliter	dL
gram	g
hectare	ha
kilogram	kg
kilometer	km
liter	L
meter	m
milliliter	mL
millimeter	mm

Weights and measures (English)

cubic feet per second	ft^3/s
foot	ft
gallon	gal
inch	in
mile	mi
nautical mile	nmi
ounce	oz
pound	lb
quart	qt
yard	yd

Time and temperature

day	d
degrees Celsius	°C
degrees Fahrenheit	°F
degrees kelvin	K
hour	h
minute	min
second	s

Physics and chemistry

all atomic symbols	
alternating current	AC
ampere	A
calorie	cal
direct current	DC
hertz	Hz
horsepower	hp
hydrogen ion activity (negative log of)	pH
parts per million	ppm
parts per thousand	ppt, ‰
volts	V
watts	W

General

Alaska Department of Fish and Game	ADF&G
Alaska Administrative Code	AAC
all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.
all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.
at	@
compass directions:	
east	E
north	N
south	S
west	W
copyright	©
corporate suffixes:	
Company	Co.
Corporation	Corp.
Incorporated	Inc.
Limited	Ltd.
District of Columbia	D.C.
et alii (and others)	et al.
et cetera (and so forth)	etc.
exempli gratia (for example)	e.g.
Federal Information Code	FIC
id est (that is)	i.e.
latitude or longitude	lat. or long.
monetary symbols (U.S.)	$, ¢
months (tables and figures): first three letters	Jan,...,Dec
registered trademark	®
trademark	™
United States (adjective)	U.S.
United States of America (noun)	USA
U.S.C.	United States Code
U.S. state	use two-letter abbreviations (e.g., AK, WA)

Measures (fisheries)

fork length	FL
mideye-to-fork	MEF
mideye-to-tail-fork	METF
standard length	SL
total length	TL

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations	
alternate hypothesis	H_A
base of natural logarithm	*e*
catch per unit effort	CPUE
coefficient of variation	CV
common test statistics	(F, t, χ^2, etc.)
confidence interval	CI
correlation coefficient (multiple)	R
correlation coefficient (simple)	r
covariance	cov
degree (angular)	°
degrees of freedom	df
expected value	*E*
greater than	>
greater than or equal to	≥
harvest per unit effort	HPUE
less than	<
less than or equal to	≤
logarithm (natural)	ln
logarithm (base 10)	log
logarithm (specify base)	log_2, etc.
minute (angular)	'
not significant	NS
null hypothesis	H_O
percent	%
probability	P
probability of a type I error (rejection of the null hypothesis when true)	α
probability of a type II error (acceptance of the null hypothesis when false)	β
second (angular)	"
standard deviation	SD
standard error	SE
variance	
population	Var
sample	var

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ABSTRACT

The salmon fisheries of the Alitak Bay area are some of the oldest in the Kodiak Management Area (KMA). The first cannery was built in this area in 1889 and sockeye salmon *Oncorhynchus nerka* bound for Upper Station (South Olga Lakes) were targeted. As exploitation increased, sockeye salmon stocks declined, and pink salmon *O. gorbuscha* made up a substantial portion of the harvest from this district after 1924. With statehood (1959) came greater control over the fishery, and the Alaska Department of Fish and Game was given the duty to conserve and rebuild salmon stocks. Sockeye salmon were introduced into the previously barren Frazer Lake beginning in 1951. This introduction was successful and, since the early 1970s the Frazer system has had a self-sustaining sockeye salmon run.

The Alitak Bay District (ABD) fishery is unique in the KMA. Both set gillnet and seine gear can fish in this district but are segregated in different sections. Set gillnets are allowed only in the inside waters of the Alitak Bay, Moser Bay, and Olga Bay Sections, while seine gear is limited to the outer waters of the Cape Alitak and Humpy-Deadman Sections. In 1987, the existing harvest strategy was formalized into a regulatory management plan and was adopted by the Alaska Board of Fisheries (BOF; 5AAC 18.361). This plan details the key species and targeted stocks that are managed for in each section of the district throughout the fishing season. The stated intent of this plan is that salmon be harvested in the "traditional" fisheries located in the Cape Alitak, Alitak Bay, Moser Bay, Olga Bay, and Humpy-Deadman Sections. The current ABD management plan has seen many revisions and additions since its inception. Most recently (2002) the ABD was modified to include staggered commercial fishing openings by section. Allocation guidelines were established by the BOF in 2002 in order to assess the effect of the staggered fishing periods.

The harvest guidelines of the early-run and late-run sockeye salmon are as follows:

(1) in the Olga Bay Section, the harvest by set gillnet permit holders should range from 16 to 22 percent,

(2) in the Moser Bay Section, the harvest by set gillnet permit holders should range from 16 to 22 percent,

(3) in the Alitak Bay Section, the harvest by set gillnet permit holders should range from 18 to 24 percent,

(4) in the Cape Alitak Section, the harvest by purse seine permit holders should range from 38 to 44 percent.

In 2002 KMA managers scheduled a commercial salmon fishing period for the ABD on June 9. There was no effort for the first period due to price disputes between commercial salmon fishermen and local processors. Poor sockeye salmon returns to the keep most of the area closed to commercial salmon fishing. However strong pink salmon returns allowed managers to open the Humpy-Deadman Section. In total, 13 Chinook *O. tshawytscha*, 14,575 sockeye, 1,060 coho *O. kisutch*, 1,078,120 pink, and 10,164 chum salmon *O. keta* were harvested by seine gear. Allocative objectives were not met in 2002.

In 2003 KMA managers tentatively scheduled a commercial salmon fishing period for the ABD on June 5 if certain criteria were met. The criteria were met and a June 5 opening was allowed. Commercial salmon fisheries occurred in Alitak Bay District management units throughout the season, based on run strength of local sockeye, pink and coho salmon stocks. The first staggered fishing period occurred on June 9. The last Alitak Bay District delivery occurred on September 5. In total, 1,308 Chinook, 341,402 sockeye, 10,592 coho, 497,822 pink, and 31,866 chum salmon were harvested. Twenty two (22) purse seine permit holders fished in the Alitak Bay District fisheries, and harvested 62% of the total catch. Sixty-five (65) gill net permit holders fished in the Alitak Bay District, and harvested 38% of the total catch. Allocative objectives were not met in 2003.

In 2004 KMA managers tentatively scheduled a commercial salmon fishing period for the ABD on June 5 if certain criteria were met. The criteria were met and the June 5 opening was allowed. Commercial salmon fisheries occurred in Alitak Bay District management units throughout the season, based on run strength of local sockeye, pink and coho salmon stocks. The last Alitak Bay District delivery occurred on September 11. In total, 1,316 Chinook, 1,156,539 sockeye, 15,897 coho, 1,420,188 pink, and 38,348 chum salmon were harvested. Thirty two (32) purse seine permit holders fished in the Alitak Bay District fisheries, and harvested 59% of the total catch. Seventy-one (71) gillnet permit holders fished in the Alitak Bay District, and harvested 41% of the total catch. Allocative objectives were not met in 2004.

Keywords: Kodiak Management Area, Alitak Bay District, Alaska Board of Fisheries, allocative guidelines, staggered openings, Alitak Bay District Salmon Management Plan, salmon management units, terminal harvest area, Chinook salmon, sockeye salmon, coho salmon, pink salmon, chum salmon.

INTRODUCTION

The Alitak Bay District (ABD) is one of seven commercial salmon fishing districts in the Kodiak Management Area (KMA). This district contains 32 known salmon streams. Six species of Pacific salmon migrate through, and spawn within streams in the district, including sockeye *Oncorhynchus nerka*, pink *O. gorbuscha*, chum *O. keta*, coho *O kisutch*, Chinook salmon *O. tshawytscha*, and steelhead trout *O. mykiss*. The ABD is currently managed under Alaska Board of Fisheries (BOF) approved regulatory guidelines by the ABD Salmon Management Plan (5 AAC 18.361).

LOCATION

The ABD is located at the southern end of Kodiak Island, extending from Cape Trinity (56° 44.80'N lat.), on the Aliulik Peninsula, to the latitude of Low Cape (56° 59.50'N lat.), on the southwest side of Kodiak Island (Figure 1). Within these boundaries are Humpy Cove, Portage and Sulua Bays, Deadman Bay, Alitak Bay, Moser Bay, Olga Bay, and the outside beach from Cape Alitak to Low Cape, which includes Sukhoi Lagoon.

ALITAK BAY DISTRICT MANAGEMENT UNITS

The ABD is currently subdivided into 10 sections (Figure 2). Exclusive areas for both seine and gillnet gear have been in effect in the ABD since prior to Alaska statehood (1959). This was modified slightly in 1970 when fishing by seine gear was allowed in the entire ABD after September 4; this modification is still in effect. The Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections are considered the traditional harvest areas. The seine gear only areas include the Humpy-Deadman and Cape Alitak Section, while the Alitak, Moser, and Olga Bay Sections are designated set gillnet only areas prior to September 5. The remaining five sections, the Dog Salmon Flats, Inner Akalura, Outer Akalura, Outer Upper Station, and Inner Upper Station Sections are considered nontraditional harvest areas and are also designated set gillnet only through September 4. These sections are normally closed to fishing and open only if salmon well in excess of escapement requirements move past the traditional fishing areas.

HISTORY

Commercial fishing for salmon has a long history in this area, beginning with the Russians in the early 1800s. The first canneries were built in 1889, one in Moser Bay and one in inner Olga Bay. A cannery built in Alitak Bay near the village of Akhiok in 1918 is still in operation (Roppel 1986). Sockeye salmon was the species that drew commercial interest to Alitak Bay, with South Olga Lakes (Upper Station system) and Akalura Lake being the main producers. After 1924 pink salmon began to compose a considerable portion of the catch. Fish traps were the primary gear used to harvest salmon, plus a few large beach seines and gillnets. Since the 1930s commercial salmon fishing in Olga Bay and in portions of Moser Bay has been limited to set gillnets only. Purse seines were first allowed into this district in 1933 when, by regulation, they were allowed to operate outside of Moser Bay from Cape Trinity to Cape Alitak. Fish traps, previously allowed at specific sites in Alitak Bay, were prohibited in 1959 with Alaska statehood (Figure 2).

Stocks declined in the early 1900s as competition for salmon resources increased. Harvest control was virtually nonexistent prior to 1924, leading to the congressional enactment of the White Act. The White Act mandated that escapement should equal 50% of the total run, as determined by harvest reports and escapement counts, with sockeye salmon the principal (if not only) species considered. In Alitak Bay these escapement counts came from fish counting weirs

first installed in 1923 at Upper Station (at the outlet of the lower lake) and at Akalura Creek. Closed water sanctuaries were established, and fixed weekly fishing periods and season lengths were adjusted projected to perceived run strengths. With little enforcement this was largely ineffective, plus large escapements did not necessarily lead to increased productivity. Sockeye salmon runs continued to decline or remained depressed. With Alaska statehood came the application of fixed escapement objectives, increased research of optimum spawning capacity, stocking of previously barren or depressed lake systems, adjustments in escapement objectives, increased monitoring and enforcement, emergency order openings and closures based on actual run strength, modifications in gear size and operation, and changes in harvest strategies and management plans. These tools continue to be used by the department to achieve optimum escapement and maximize the sustainable harvest.

SALMON RESOURCES

The ABD currently has two major sockeye salmon producing systems and several major pink, chum, and coho salmon producing systems. Escapement into district streams is estimated by aerial survey for most systems, with foot surveys on some minor systems, and fish counting weirs on major sockeye salmon producing systems.

Escapement objectives for individual salmon systems have developed over time. The Alaska Department of Fish and Game (ADF&G) has attempted to achieve fixed objectives, based on historical escapement counts and research of the individual systems' production potential. With increased knowledge of each system's response to various escapement levels and their production potentials, escapement objectives have been modified (Table 1).

Prior to the late 1980s escapement objectives for pink, chum, and coho salmon were set by wide geographical areas, and only for areas where significant production occurred. Escapement objective ranges (with lower and upper bounds) were first listed for major or representative sockeye, coho, pink, and chum salmon systems in 1988 (Table 2). These objectives were meant to be guidelines for management, such that accomplishment of escapements within these ranges should ensure stable salmon production and allow for continued commercial harvests. Pink salmon returns throughout the KMA may exhibit an odd-year or even-year dominance, and current pink salmon escapement objectives are based on odd-year or even-year production.

CHINOOK SALMON

Chinook salmon fry were stocked in the Frazer Lake/Dog Salmon Creek system from 1966 through 1969 (Blackett 1979). The introduction was successful and Chinook salmon still return to the Frazer system; however, the size of the population remains small (Table 3; Figure 3). This system accounts for 99.9% of the total Chinook salmon escapement in the ABD (there are occasionally individual Chinook salmon counted in other systems in this district, but are considered strays). The highest recorded escapement was 724 Chinook salmon in 2003. The 2004 Chinook salmon escapement for the ABD was 577, which was above the previous 10-year (1994-2003) average escapement (462 Chinook salmon; Table 3).

Small numbers of Chinook salmon have been harvested in the ABD, even in years prior to the Frazer Lake introductions. There was a record harvest of 1,946 Chinook salmon in 1994 (Table 4). The 2004 harvest (1,316) was above the previous 10-year (1994-2003) average harvest of 681 Chinook salmon (Table 4).

SOCKEYE SALMON

Sockeye salmon are found in at least five streams in the ABD, with two relatively large producers (Upper Station and Frazer Lake systems) and three smaller systems (Akalura, Silver Salmon, and Horse Marine systems; ADF&G 1993). All five systems empty into Olga Bay (Figure 1). Historically, the ABD systems produced large numbers of sockeye salmon, and commercial catches were second only to those from the Karluk Lake system. Prior to the establishment of a Frazer Lake sockeye salmon run, Upper Station and Akalura systems were the main producers in Alitak Bay. Annual sockeye salmon harvest was relatively low from the mid 1950s to mid 1970s (Figures 4 and 5). Through the mid 1970s the only major contributor to the ABD sockeye salmon catch was Upper Station (Manthey et al. 1977).

Sockeye salmon were introduced into the previously barren Frazer Lake from 1951 through 1971. A fish pass was constructed in 1962 to allow sockeye salmon to migrate around the barrier falls and into the lake. Counts of upstream migrant salmon have been made at the Frazer Lake fish pass since 1962. This introduction has been considered very successful, and since the early 1970s has been self-sustaining (Blackett 1979). In an attempt to rebuild early sockeye salmon runs to Karluk Lake and minor sockeye salmon systems and to allow the new Frazer Lake run to build, most of the KMA (including Alitak Bay) was closed to fishing during June and early July from 1971 through 1977.

Initial attempts at stabilizing production included setting escapement goals for sockeye salmon systems in the ABD (Table 1). In the early 1970s the Frazer Lake escapement goal for sockeye salmon was set at 175,000 while Upper Station sockeye salmon was set at 180,000. Research on the Frazer Lake escapement goal, conducted from the mid 1960s to late 1970s, indicated a potential optimum escapement of 365,000 to 400,000 spawning sockeye salmon. This optimum escapement goal level was based on estimates of rearing capacity and the available spawning habitat of Frazer Lake and its tributaries (Blackett 1979). However, the Frazer run was newly established and it was uncertain whether all spawning habitats would be utilized. This uncertainty resulted in setting a lower goal of 175,000 to 250,000 (Manthey et al. 1981). The extensive June and early July closures of commercial fisheries from 1971 through 1977 greatly improved the sockeye salmon escapements into Frazer Lake. As an added benefit of the closures, the early portion of the Upper Station sockeye salmon run began to increase. To take advantage of the newly improved production levels very limited commercial fisheries (two 24-hour openings) were allowed in June beginning in 1978. These fisheries were limited to gillnet sections (the equivalent of the current Alitak Bay, Moser Bay, and Olga Bay Sections).

Sockeye salmon escapement goals were first presented in preseason management plans in 1978 (Manthey et al. 1978). In developing the Upper Station sockeye salmon escapement goal, it was noted that extensive research into the optimum escapement level for this and other systems was lacking. As a result, many of the initial escapement goals were based on assessment and interpretation of historic production levels. The Upper Station sockeye salmon escapement goal ranged from 100,000 to 180,000 fish. This goal was apportioned by month, as follows: July-30,000, August-130,000, and September-20,000 fish. The August portion of the goal was further broken down into weekly goals. Note that no portion of the year-end escapement requirement was expected to occur in June The Frazer Lake sockeye salmon run was intended to be primarily an early-run system. The Frazer Lake escapement goal remained at 175,000 to 250,000 sockeye salmon.

After a large sockeye salmon escapement at Frazer Lake in 1980 (405,000) there were indications that the previous assessment of spawning potential was correct. In 1981, the Frazer Lake goal was raised to 350,000 to 400,000 sockeye salmon. In order to meet the new escapement objective for Frazer Lake, the department continued with a very restrictive management strategy that resulted in some large escapements into Frazer Lake that met, and at times exceeded, the new objective. Due to the restrictive management, sockeye salmon were not intercepted before migrating into Olga Bay. This tended to produce large daily catches in Olga Bay. These new levels of sockeye salmon available for harvesting attracted the attention of both gillnetters and seiners.

In 1983 a weir was established on the lower portion of the Frazer Lake system, on Dog Salmon Creek approximately one-half mile from saltwater. The new weir provided managers timely counts of sockeye salmon escapement into the river (the fishpass is five miles and roughly four days migration time above the commercial fishery), and allowed assessment of salmon buildups on Dog Salmon Flats near the river mouth.

Also in 1983 the sockeye salmon escapement goal for Upper Station was increased to a range of 150,000 to 250,000 fish. The primary justification for this increase was based on an improved return from only one year (1974) of high escapement. It was also evident that the restricted commercial fishing in June allowed the early segment of the Upper Station sockeye salmon run to build. As this early portion of the run developed and interest in harvesting the fish increased, it became prudent to establish an escapement goal (there was no Upper Station escapement goal for June). The first June escapement goal was assigned in 1983 when the early portion of the goal was changed from 30,000 sockeye salmon in July to 50,000 sockeye salmon in June and July (Manthey et al. 1983). The goal was apportioned so that the June goal was 20,000 sockeye salmon, while the July goal remained at 30,000. In addition, the August portion of the goal was increased from 130,000 sockeye salmon to 175,000 sockeye salmon. The new August goal was again broken down into weekly goals. The September portion of the goal was also increased from 20,000 to 25,000. These escapement goals for Upper Station sockeye salmon remained in effect through 1987.

In the mid 1980s there were signs that problems were developing with the Frazer Lake sockeye salmon. The Frazer Lake sockeye salmon stock did not respond as expected to the higher escapements, with much lower than expected returns from the large escapements. The first poor run was in 1984, and the effects of previous overescapements were suspected. Poor sockeye salmon runs to Frazer Lake occurred again in 1986 and 1987. Severe fishery restrictions during June were again employed to ensure sufficient escapement to the Frazer system. The Frazer Lake sockeye salmon escapement goal was lowered to 200,000 to 275,000 sockeye salmon in 1986.

In 1985 ADF&G Kodiak salmon research staff began constructing brood tables for Kodiak's major sockeye salmon systems and initiate a formal forecasting program. With the development of formal forecasts for each major sockeye salmon system, the expected timing of the harvests could be projected. This led to breaking Kodiak's long fishing season into early and late segments, with July 15 as the break point. For sockeye salmon systems that have a bimodal time of entry, July 15 was utilized as a break between the early and late-run escapement goals. Instead of using interim escapement goals by month or week, interim goals were changed to reflect an average escapement time of entry (percent by day). In 1986 ADF&G initiated a gillnet test fishery to be used to estimate the abundance of Frazer Lake bound sockeye salmon entering Olga Bay during closures, and to maximize the harvest in traditional fishing areas. The test fishery site

has been located in Chip Cove, near the mouth of Olga Narrows leading into Olga Bay, since 1988.

In 1988 the sockeye salmon escapement objectives for Upper Station and Frazer Lake were again changed. For Frazer, upon department review of escapements and subsequent returns, the objective was reduced to 140,000 - 200,000 sockeye salmon, with an escapement of 140,000 sockeye salmon being targeted (as counted through the Dog Salmon weir). The Frazer Lake stock is essentially an early run (prior to July 15).

In 1988 the Upper Station target escapement goal was raised to 275,000 sockeye salmon, with a minimum goal of 200,000 sockeye salmon. An early-run component was identified as those fish counted past the weir through July 15, and a late-run component was identified as sockeye salmon entering after July 15. The sockeye salmon escapement goal for the early Upper Station run was changed to a range of 50,000 to 75,000 fish through July 15. This was a large increase from the previous early-run goal (50,000 in June and July, with 20,000 in June). This early-run goal suggested that there might be a sustainable early run, even though historically only the July-August-September run was recognized. This early goal would also be used as an "action point" to trigger directed fisheries in the normally closed waters of upper Olga Bay. This meant that directed fisheries in the closed waters would not occur unless it appeared that the upper range of the goal would be exceeded. The sockeye salmon escapement goal for the late run to Upper Station was changed to a range of 150,000 to 200,000 fish from July 15 through mid September, recognizing that this was still the most productive portion of Upper Station's annual sockeye salmon run.

Individual sockeye salmon escapement goals have been formulated for Upper Station (early and late run) and Frazer Lake. Other systems with sockeye salmon production include Akalura, Horse Marine, and Silver Salmon Lakes. These five systems account for 99.9% of the total sockeye salmon escapement in the ABD (there are two additional very small sockeye salmon systems in this district, one in Kempff Bay and one on the Aliulik Peninsula). Weirs have been operated annually at Upper Station and Dog Salmon Rivers. The Akalura River has had a weir for at least a portion of each year except in 1998, 1999, and 2004 when the Akalura River did not have a weir due to lack of funding. Sockeye salmon escapements to Horse Marine and Silver Salmon (and to Akalura in 1998, 1999, and 2004) have been estimated by aerial survey. It is important to point out that aerial surveys provide a snap shot of the escapement at the point in time when the survey is performed and may not reflect the total escapement.

For all systems combined, the ABD aggregate escapement objective (including systems without goals) is currently 386,000 - 550,000 sockeye salmon (Nelson and Lloyd 2001; Table 2). The sockeye salmon escapement objective for the ABD was met in 2004 (489,061; Table 3; Figure 6). Both the Frazer and Upper Station systems met or exceeded their current escapement goals (Figure 7). The Frazer and Upper Station systems have met or exceeded escapement goals for 8 of the last 10 years (Figure 6). The highest recorded sockeye salmon escapement was 933,852 fish (1985) and the recent 10-year (1994-2003) average escapement is 469,633 sockeye salmon (Table 3).

The recent ABD 10-year (1994-2003) average harvest is 775,875 sockeye salmon, with the record harvest of 2,062,718 sockeye salmon occurring in 1991 (Table 5). There were 1,156,539 sockeye salmon harvested in the 2004 season (Table 5).

COHO SALMON

Coho salmon are known to spawn in at least 15 streams within the ABD (ADF&G 1993). Sukhoi Lagoon, Silver Salmon, Akalura, Upper Station, Dog Salmon, Horse Marine, Deadman, Sulua, and Humpy Creeks all have relatively minor populations. There are three representative streams for which sustainable escapement goals (SEGs) have been established: Upper Station, Dog Salmon, and Akalura (Nelson and Lloyd 2001). These three streams account for an average of over 70% (range 48-100%) of the ABD coho salmon escapement counts. Because coho salmon may continue to migrate into streams late into the fall (as late as November), and budgets and inclement weather preclude late season escapement surveys, the current SEGs are considered interim goals. These SEGs represent the number of coho salmon that should be counted in these systems by September 15.

The ABD coho salmon aggregate escapement goals is 8,500 - 14,500 (Nelson and Lloyd 2001; Table 3). Indexed coho salmon escapements in the entire district (including systems without escapement goals) seldom exceed 30,000 fish. Due to limited escapement monitoring late in the season, coho salmon escapement estimates generally represent minimum numbers. The highest recorded coho salmon escapement was 52,941 in 1998. The 2004 district-wide coho salmon escapement (9,397) was within escapement objectives, but well below the previous 10-year average (24,461). The below average estimate was primarily due to the Dog Salmon weir being pulled earlier than past years and not operating the Akalura River weir. Coho salmon escapement objectives have been met or exceeded each year since 1985 (Table 3; Figure 8).

The recent 10-year (1994-2003) average harvest is 18,996 coho salmon, with the record harvest of 43,914 coho salmon occurring in 1985 (Table 6). There were 15,987 coho salmon harvested in the 2004 season (Table 6).

PINK SALMON

Pink salmon are generally the most numerous salmon species and certainly the most wide spread in the KMA, occurring in all known salmon streams (ADF&G 1993). The largest producing systems in the ABD are the Humpy, Deadman, and Dog Salmon Creeks. As with most pink salmon populations, survival and subsequent return of pink salmon to this district is highly variable. Over the last twenty years these systems have generally exhibited an odd-year dominance, with larger pink salmon returns often occurring in odd-numbered years (Table 3). It should also be noted that the timing of the pink salmon return to the Dog Salmon Creek varies considerably between odd and even years. On odd-numbered years the highest pink salmon escapement counts occur during the last week of July, while on even-numbered years peak escapement occurs the last week of August (Figure 9).

KMA pink salmon escapement goals have been established on a district-wide, rather than individual stream, basis. The Alitak district-wide escapement goal range is 162,000 - 486,000 pink salmon in even-numbered years, and 212,000 - 636,000 pink salmon in odd numbered years (Nelson and Lloyd 2001; Table 2). The 2004 pink salmon escapement (1,008,986) exceeded the escapement goals, but was below the previous 10-year average (1,168,036; Table 3; Figure 10). The escapement goals has been met or exceeded in 19 of the last 20 years (Figures 10 and 11). In the previous 10 years (1994-2003) the average odd-year escapement was 1,386,896 pink salmon, while the average even-year pink salmon escapement was 992,191. The highest recorded pink salmon escapement was 3,796,345 individuals in 1995 (Table 3).

During the past 10 years (1994-2003) the odd-year average harvest was 2,262,557 pink salmon, while the even-year average pink salmon harvest was 940,024 (Table 7). The record harvest of 7,065,924 pink salmon occurred in 1995. There were 1,420,188 total pink salmon harvested in the 2004 season (Table 7).

CHUM SALMON

Chum salmon escapements have been documented in 14 streams within the ABD (ADF&G 1993). Sukhoi Lagoon supports a large population (escapements in excess of 100,000 have been documented), and the chum salmon runs to Dog Salmon, Deadman, Portage, and Northeast Sulua systems can be significant (greater than 20,000). Yearly indexed chum salmon escapements in the district vary widely, though difficulties identifying chum salmon in streams during large pink salmon returns may be a significant factor influencing escapement estimates.

Similar to pink salmon, KMA chum salmon escapement goals have been established on a district-wide, rather than individual stream, basis. The Alitak district-wide escapement goal range is 26,000 to 78,000 chum salmon (Nelson and Lloyd 2001; Table 2). The 2004 chum salmon escapement (34,406) was within the escapement goal range, but below the previous 10-year average (67,305; Table 3; Figure 12). The escapement goal has been met or exceeded in the last 10 years (Table 3; Figure 12). The highest recorded chum salmon escapement (1991) was 139,520 chum (Table 3).

The previous 10-year (1994-2003) average harvest was 67,036 chum salmon, with the record harvest of 191,437 chum salmon occurring in 1971 (Table 8). There were 38,348 total chum salmon harvested in the 2004 season (Table 8).

MANAGEMENT

In the ABD, ADF&G attempts to ensure that stock specific escapement requirements are met while allowing the harvest of surplus fish throughout the runs in traditional harvest areas (ADF&G 2002). The Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections are areas in the ABD that are recognized as traditional harvest areas. The overlap in run timing of various stocks, combined with variations in run size, add to management difficulty. The complexity of managing for several salmon producing systems with various run timings, and the fisheries on these stocks, necessitated a detailed overall management plan.

Each year preseason sockeye salmon forecasts are prepared by ADF&G research staff, which are usually based on recent-year sibling relationships and/or smolt to adult survival data. Run projections for other species are formulated based on recent escapements and assumed production capabilities. To judge inseason run strength various data are used, including salmon counts from weirs, escapement and buildup estimates from aerial surveys, ADF&G test fishery indices of fish passage into Olga Bay, commercial catch and effort levels, and estimates of the commercial catch stock composition.

MANAGEMENT PLANS

Just as escapement goals have been set and modified over time, the management of the ABD commercial salmon fishery has also evolved. Various harvest strategies have been applied to the salmon resources. Most emphasis has been centered around the management of sockeye salmon stocks (Table 1).

As noted earlier, from 1970 through 1977 there was a complete closure of the ABD during June, to allow Frazer Lake sockeye salmon stocks to build. In 1975 management moved from weekly fishing periods set preseason to commercial openings set inseason by emergency order. In the late 1970s a Moser/Olga Bay Management Plan was formulated by ADF&G area biologists. In 1978 the preseason plan allowed for a minimum of two, single day, fisheries in the district during June (typically near June 14 and June 22). However, only the set gillnet sections were opened.

In the early 1980s, in order to meet the Frazer Lake sockeye salmon escapement goals (350,000 – 400,000), the department continued with this restrictive management strategy. This resulted in relatively large sockeye salmon harvests inside Olga Bay, as well as escapements into Frazer Lake that met, and at times exceeded, the current goals. These new, increased, levels of sockeye salmon available for harvest in the ABD attracted the attention of both gillnetters and seiners (Figure 4). In 1982 catch reporting statistical areas were changed so that gillnet harvests could be distinguished between Olga and Moser Bays. In 1982 gillnetters harvested 86% of the sockeye salmon caught in the ABD (Table 5).

In 1983, with the Frazer Lake sockeye salmon stock developing well, the BOF directed the department to open the Cape Alitak Section (seine gear) concurrently with openings of the Moser/Olga Bay Section (set gillnet). The ABD harvest strategy also allowed for the possibility of limited gillnet openings in the normally closed area in upper Olga Bay and near the mouth of the Dog Salmon Creek (Dog Salmon Flats) in the event of escapements in excess of established escapement goals. Late in the 1983 season “mop up” fisheries occurred in the normally closed upper Olga Bay area (the equivalent of the Inner and Outer Upper Station and Outer Akalura Sections) and on Dog Salmon Flats, for coho and late Upper Station sockeye salmon (Table 9). In 1983, the first year that purse seine gear was allowed equal fishing time with gillnet gear, the gillnetters harvested 59% of the sockeye salmon harvested in the ABD (Table 5).

Beginning in 1984, a more aggressive harvest strategy was implemented by ADF&G. Specifically, a June 9 one-day "commercial test fishery" was initiated. This allowed an early commercial fishing period for the purpose of assessing the strength of the early sockeye salmon run to Frazer Lake. This also distributed the Frazer Lake harvest to fishers to Moser Bay gillnet and Alitak Bay seine fishers. The June 9 harvest has been used to trigger another commercial opening as early as June 12. The harvest during this June 9 fishery was still used as an indicator of the actual strength of early-run sockeye salmon stocks.

The Frazer Lake sockeye salmon run was poor in 1984, and the effects of previous overescapements were suspected. Severe fishery restrictions during June were employed to ensure sufficient escapement reached the Frazer system. Upper Station experienced a good sockeye salmon run, and an upper Olga Bay “mop up” fishery was necessary (Table 9). In 1985 the Frazer Lake sockeye salmon run was strong, and the first Frazer Lake sockeye salmon mop up fishery was allowed, in the normally closed water section at the stream mouth on Dog Salmon Flats. Poor sockeye salmon runs to Frazer Lake occurred again in 1986 and 1987, which resulted in a minimal amount of fishing time in the traditional harvest locations in the Moser/Olga Bay, Humpy-Deadman, and Cape Alitak Sections.

Upper Station continued to have good returns, exceeding the current escapement goals, and upper Olga Bay mop up fisheries were necessary during June and July of 1986 and 1987 (for the Upper Station early run), and in August of 1986 (for the Upper Station late run; Table 9). These mop up fisheries were not popular with the majority of KMA commercial fishers. Seine fishers could not access these fisheries because upper Olga Bay areas are limited to gillnet gear only

prior to September 5. Many gillnet fishers disliked these upper bay mop up fisheries because a great deal of effort and expense is required to move from their normal sites. Initially, three days advance notice was given to allow gillnet permit holders from Westside Kodiak areas more opportunity to participate.

In 1987 the department proposed to the BOF several regulation changes for the ABD. Section boundaries were described, with specific "normal closed water" upper Olga Bay sections defined (the Inner and Outer Akalura, Inner and Outer Upper Station, and Dog Salmon Flats Sections). The existing harvest strategy for the ABD was formalized into a regulatory management plan, detailing which species affect fishing time for each section throughout the season. This plan was adopted by the BOF in 1987, and in 1988 the ABD Salmon Management Plan (5AAC 18.361) went into regulation (Table 10). It was the stated intent that salmon be harvested in the traditional fisheries located in the Humpy-Deadman, Cape Alitak and Moser/Olga Bay Sections.

The ABD regulatory management plan provided a basic management strategy, with minor differences for even versus odd numbered years. The fishery is to be managed from June 9 through July 15 based on sockeye salmon escapement to the Frazer system; from July 16 through August 9 in even years for sockeye salmon escapement to Upper Station, and in odd years for pink salmon escapements to the Dog Salmon Creek; from August 10 to August 25 in even years for sockeye salmon escapement to Upper Station, and in odd years on both Upper Station sockeye salmon and Dog Salmon pink salmon escapements; and after August 25 management is based on sockeye and coho salmon escapements to the district streams (ADF&G 2002). The department uses aerial survey and weir escapement counts, qualitative analysis of inseason run timing, catch per unit effort of test and commercial fisheries, and species composition of the catches, to open and close the fishery by emergency order within the guidelines of the management plan.

This plan recognized that through July 15 sockeye salmon returning to Frazer Lake would largely determine fishing time in the traditional harvest locations, because the Frazer Lake sockeye salmon run is more productive than the early Upper Station sockeye salmon run. There were no directives in the management plan to provide opportunities (such as closures) to allow early Upper Station sockeye salmon past the traditional harvest locations if there was a harvestable surplus of Frazer Lake sockeye salmon. It was assumed that a sufficient number of early Upper Station sockeye salmon (necessary to sustain the run) would escape to spawn in the course of managing the traditional fishing areas to meet Frazer Lake sockeye salmon escapement objectives.

The reduced Frazer Lake goal has been fairly easy to achieve recently due to favorable production. In years of very large runs the sockeye salmon escapement into the Frazer Lake system may continue to exceed daily interim escapement goals despite nearly continuous fishing in the traditional harvest areas requiring short mop up fisheries in a portion of the Dog Salmon Flats Section. Dog Salmon Flats openings under these circumstances generally result in the harvest of lower quality fish. Since the adoption of lower Frazer Lake sockeye salmon escapement goals (1988), openings on Dog Salmon Flats targeting Frazer Lake sockeye salmon have occurred in 1988, 1990, 1991, 1994, 1997, 2001, and 2004 (Table 9).

Similarly, in years of strong late Upper Station sockeye salmon and strong coho salmon runs to Olga Bay systems, or in years when low Frazer Lake pink salmon returns have necessitated closures in the traditional harvest areas, openings in normally closed waters of upper Olga Bay were required. Since the adoption of higher Upper Station sockeye salmon escapement goals

(1988), upper Olga Bay openings, in the Outer and/or Inner Upper Station Sections, targeting late Upper Station sockeye and coho salmon have occurred in 1988, 1990, 1991, 1994, 1997, and 2003. An Upper Olga Bay opening was allowed in 1988, 2003, and 2004 for early-run Upper Station sockeye salmon. A short mop up fishery for Akalura sockeye salmon occurred in 1992. Specific statistical area numbers for the upper bay sections were not in place prior to 1995, so a breakdown of catches from the normally closed upper bay sections is not possible.

In 1999 the ABD Salmon Management Plan was again revised. The management plan was modified to protect the genetic diversity of the salmon systems and increase the sockeye salmon harvest for Olga Bay fishers through allocation guidelines. In an attempt to conserve minor stocks the BOF adopted the following revision to the ABD Salmon Management Plan (ADF&G 2002):

- the Frazer Lake sockeye salmon run shall be managed for maximum sustained yield and the early Upper Station sockeye salmon run shall be managed for sustained yield (defined as an early-run escapement of 25,000 sockeye salmon to Upper Station);
- there may be one 33 hour commercial test fishery between June 5 and June 13 in the Cape Alitak, Moser/Olga Bay, and Humpy-Deadman Sections;
- from June 13 through July 15 in the Cape Alitak, Humpy-Deadman, and Moser/Olga Bay Sections there shall be a minimum closure of 63 consecutive hours (2.6 days) in every 10-day period, unless the sockeye salmon escapement goals have been achieved for the Frazer Lake and early Upper Station sockeye salmon runs;
- from July 16 through August 25 there shall be a minimum closure of 63 consecutive hours (2.6 days) in every 10-day period in the Cape Alitak and Moser/Olga Bay Sections. The 2.6-day closure windows would allow for pulses of escapement to reach the salmon systems in Olga Bay and perhaps increase the Olga Bay fisher's sockeye salmon harvest percentage without placing an allocative plan in regulation.

The Board appointed an Alitak Task Force composed of selected members of each gear group (Olga Bay gillnet, inner Moser Bay gillnet, outer Moser Bay/Alitak Bay gillnet and purse seine). The task force was charged with reviewing the ABD Salmon Management Plan with regards to further changes in time and area, methods and means, and allocation between gear groups and between areas.

In 2002 the BOF expanded on the ABD management plan. Once again changes allocated more of the sockeye salmon harvest to the Moser and Olga Bay fishermen. The revised management plan provided differential opening times for the ABD sections, specifically the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections. Under this plan the Olga Bay Section would open first at 6:00 AM the Moser Bay Section would open at 6:00 PM the same day and the Alitak Bay Section would open the following day at 6:00 AM. The Cape Alitak Section was designated to open on a rotational basis with each of the other sections starting with the Alitak Bay Section.

The BOF revisited the ABD management plan after the 2002 season and revised the staggered opening times so that the sections would open at six hour intervals. Under this plan the Olga Bay Section would open first at 6:00 AM the Moser Bay Section would open at 12:00 NOON the same day and the Alitak Bay and Cape Alitak Sections would open the same day at 6:00 PM. The Cape Alitak Section would not open on a rotational basis (ADF&G 2002).

Also, in order to evaluate the management plan, the BOF formulated allocative guidelines for each of the section in the ABD, except the Humpy-Deadman section. In order to evaluate the

allocative guidelines, the former Moser/Olga Bay Section was split into three distinct sections, the Alitak Bay, Moser Bay and Olga Bay Sections (ADF&G 2002).

The allocative guidelines based on the harvest of the early-run and late-run sockeye salmon are as follows:

(1) in the Olga Bay Section, the harvest by set gillnet permit holders should range from 16 to 22 percent,

(2) in the Moser Bay Section, the harvest by set gillnet permit holders should range from 16 to 22 percent,

(3) in the Alitak Bay Section, the harvest by set gillnet permit holders should range from 18 to 24 percent; and

(4) in the Cape Alitak Section, the harvest by purse seine permit holders should range from 38 to 44 percent.

It is important to note that the intent of the board was to use the allocation only as a guideline in which to evaluate the revised management plan. The allocations were not intended to be used as a management tool.

GEAR RESTRICTIONS

An evolution of regulations has also occurred in regards to ABD fishing gear (Table 11). The increased sockeye salmon production in this district attracted interest from other set net permit holders to establish a fishing site in the Moser and Olga Bay Sections or expand existing fishing sites. This resulted in years of controversy over where and how it is legally permissible to fish a gillnet in the ABD.

Seine

In 1985 a regulation was passed that prevents using a seine as a stationary trap (Table 11). In 1990 the maximum depth limit for purse seines was set at 325 meshes, with mesh size of seines not to exceed seven inches. Purse seines must be between 100 and 200 fathoms in length, and must be between 100 and 325 meshes deep with at least 50 fathoms of the seine at 150 meshes in depth. Beach seines must be between 100 and 225 fathoms in length and must be at least 100 meshes in depth. A lead of no more than 100 fathoms may be used with a purse seine, but the aggregate length of purse seine and lead may not exceed 250 fathoms.

Set Gillnet

Compared to the seine fishery gear changes, the set gillnet fishery has seen more changes in regulations and some regulations specific to gear operating in the ABD have been adopted (Table 11). Prior to 1983 the aggregate length of set gillnets used by an individual could not exceed 150 fathoms, and no more than two set gillnets could be operated by the permit holder. Set gillnets were required to be operated in a straight line, with no more than 25 fathoms of each net used as a single hook. Seine webbing could be used on the inshore end of the set net as a lead, but only between high and low water marks. The inshore end of the set gillnet was required to be attached to the shore above the mean low water mark. Further, no part of a set gillnet could be placed or operated within 900 feet of any part of another set gillnet. In 1983 a 25 fathom hook in any configuration was allowed.

In 1985 many modifications to gillnet operations were passed into regulation. "Joint venture" set net operations were first allowed. This allows two permit holders to combine their gear, whereby

three gillnets, none of which can be more than 150 fathoms in length, could be operated. Also in 1985 it was specified that set net attachment points must be 900 feet apart and cannot be attached inside closed waters. Further, it was added that the shoreward end of the set gillnet must be attached to the beach above the lowest tide of the day. It was specified that seine webbing on the shoreward end of a set gillnet may not extend more than 50 fathoms seaward of the beach at lowest tide of the day, except in the Moser/Olga Bay Section where seine webbing may be used only from the high tide mark seaward, and no portion of the seine web may be in water deeper than five feet during the lowest tide of the day.

In 1988 the BOF again passed a number of set gillnet regulations. In order to increase the efficiency of terminal gillnet fisheries in the normally closed sections of Olga Bay, minimum distance requirement between units of gear were eliminated. In addition, no set gillnet gear, including running lines, leads, anchors, or buoys, could be in place in the water prior to the opening time of a fishing period.

It was also determined that the shoreward end of a set gillnet must be attached to a point of land that was exposed at the lowest tide of the day or to a rock that was within five feet of the surface at the lowest tide of the day. A rock was defined as any naturally located or created geological formation that shows no evidence of having been created through man-made means.

Further it was passed that in the Moser/Olga Bay Section (now the Moser Bay Section) south of a line from Bun Point to a point on the opposite shore at 56° 57' 59" N lat., 154° 07' 35" W long. seine webbing may be used only from high tide seaward, plus no portion of the seine webbing used can be in water deeper than five feet at lowest tide of the day, or the seine web lead length could not exceed 20 fathoms.

In 1990 the BOF passed into regulation that in the ABD the distance from an attachment point to the shore end of the net is limited to the legal lead distance for that gear location. Also in 1990 a maximum depth limit was placed on set gillnets of 125 meshes.

In 1994, in response to claims that there had been a proliferation of new set gillnet gear into the Moser Bay portion of the Moser/Olga Bay Section, and because of difficulties in enforcing a regulation on set gillnet attachment points based on determination of which rocks were within five feet of the surface at the lowest tide of the day, the BOF passed new regulations on attachment points, to take effect for the 1995 season (ADF&G 2002). Beginning January 1, 1995, the shoreward end attachment point could be no more than 2.1 feet below the surface of the water at mean low water at Alitak Bay. If the shoreward attachment is under water at any time, it must be certified and marked with a permanent survey monument by registered land surveyors. Also, gillnet attachments can be no more than two feet from the survey monument, and never deeper than the 2.1 foot limit.

2002 ALITAK BAY DISTRICT FISHERIES

EARLY RUN

As scheduled in the 2002 Kodiak Area Commercial Salmon Fishery Harvest Strategy the first ABD commercial salmon fishing period began on June 9 for 33 hours (Brennan et al. 2002). There was no commercial salmon fishing effort during the initial June 9 fishing period due to price disputes between fish processors and commercial fishermen. Despite no commercial fishing effort, escapements were poor for both the Frazer Lake and early-run Upper Station sockeye salmon (Figures 13 and 14). The ADF&G test fishery in Olga Narrows also indicated

little movement of sockeye salmon toward the Upper Station and Frazer systems. No further commercial fisheries were allowed in the ABD targeting early-run (before July 15) sockeye salmon. Escapements to Frazer Lake (counted through the Dog Salmon Weir) were very weak (106,000), and did not meet the established biological escapement goal (BEG) (140,000 to 200,000; Figure 13). Upper Station early-run sockeye salmon escapement (36,800) exceeded the optimal escapement goal (OEG; 25,000; Table 2; Figure 14). There was a small, incidental harvest of sockeye salmon (4,200) which occurred in the seine only Humpy-Deadman Section, and was well below the ABD forecasted harvest of 389,000 early-run (pre July 15) sockeye salmon (Wadle 2004).

LATE RUN

Late-run Upper Station sockeye salmon were much weaker than expected, for the second consecutive year. No commercial fisheries were allowed in those sections of the Alitak District that target late Upper Station or Frazer Lake sockeye salmon. The late-run Upper Station escapement (150,300) just met the SEG (150,000 to 200,000; Table 2; Figure 15). Due to strong pink salmon returns to many ABD streams, fishing time was allowed in the outer, seine-only, Humpy-Deadman Section. Pink salmon catches were excellent with 1,078,120 (forecast 600,000) being harvested. Again, there was a small, incidental harvest of sockeye salmon (14,575) which was well below the forecasted harvest of 259,000 late-run (post July 15) sockeye salmon (Wadle 2004; Table 14).

SEASON TOTALS

Thirteen purse seine permit holders fished in the ABD fisheries, and harvested 13 Chinook (Tables 4 and 14), 14,575 sockeye (Tables 5 and 14), 1,060 coho (Tables 6 and 14), 1,078,120 pink (Tables 7 and 14), and 10,164 chum salmon (Tables 8 and 14). There was no harvest of salmon by gillnet permits in the 2002 season.

The Frazer Lake fishpass counted 85,317 sockeye salmon, which is below the current escapement goal range (140,000 – 160,000). The total sockeye salmon escapement into the Upper Station system was 187,151, which is below the escapement goal range (200,000 – 275,000).

2003 ALITAK BAY DISTRICT FISHERIES

EARLY RUN

The ABD opened for two commercial salmon fishing periods in June. The first commercial fishing period occurred on June 5 for 33 hours. The June 5 opening was tentatively scheduled in the 2003 management plan in order to provide opportunity to harvest early-run Upper Station sockeye salmon prior to the peak escapement to Frazer Lake (Brennan et al. 2003). Generally, the Upper Station early-run sockeye salmon have an earlier run timing than the Frazer system (Figure 16). The intent of the early opening was to allow opportunity to harvest Upper Station early-run sockeye salmon prior to the Frazer system sockeye salmon peak run timing. Upper Station early-run sockeye salmon were forecast to be relatively strong, while the normally predominant early sockeye salmon run to Frazer Lake (through the Dog Salmon Creek weir) was expected to be weak. The following June 9 fishing period was permitted for the same reason and was the first of the BOF designated staggered openings.

The commercial catch from these two periods was just over 21,000 sockeye salmon, which indicated only poor to fair run strength. The ADF&G test fishery in Olga Narrows also indicated

a fairly weak movement of salmon toward Upper Station and Frazer system. Frazer Lake sockeye salmon escapements (counted through the Dog Salmon Weir) began later than normal and were weak through June. Escapements improved in July, however an unusually high percentage of the Frazer Lake sockeye salmon run were jack (1-ocean) salmon (up to 70% of the daily escapements). No further commercial fisheries were allowed in June targeting early-run ABD sockeye salmon.

The Upper Station early-run sockeye salmon exceeded both the OEG and SEG (50,000 to 75,000) on July 10. This prompted management biologists to open the Inner and Outer Upper Station Sections for a terminal harvest fishery on July 11. Effort was light with 12 permit holders harvesting only 1,172 sockeye salmon (Table 12).

The ABD salmon harvest through July 15 included 141 Chinook, 53,500 sockeye, 159 coho, 23,612 pink, and 5,093 chum salmon (Tables 13). The sockeye salmon harvest for the seine only sections (Cape Alitak and Humpy-Deadman) was 21,223 (39.7%), and for the gillnet only sections (Alitak Bay, Moser Bay, and Olga Bay) was 32,277 (60.3%) sockeye salmon.

Escapement through the Dog Salmon weir by July 15 was 210,938 sockeye salmon, which was above interim escapement goals (120,000 - 160,000; Figure 13). The sockeye salmon escapement through the Upper Station weir was 76,175, surpassing the early-run SEG (50,000 - 75,000 through July 15; Figure 14).

LATE RUN

The late-run Upper Station sockeye salmon return was expected to be weak in 2003 (Brennan et al. 2003). However, with a strong Frazer Lake late-run sockeye salmon escapement and a strong pink salmon ABD return forecast, fishing time was allowed in the Alitak Bay District beginning July 14. As it turned out, the late-run Upper Station sockeye salmon run was above forecast. Even with the commercial fisheries, the Upper Station sockeye salmon escapement remained strong, meeting or exceeding interim goals throughout August. KMA managers allowed maximum fishing time until the end of the season.

Effort during July and August was low, with only 21 seine and 53 gillnet permit holders operating in the District. Many of the gillnet permit holders had removed their gear prior to the July–September fishing periods. The last delivery occurred on September 5, when local processors stopped tender service or quit buying altogether. Harvests from late ABD fisheries (July 16 – September 5) include 287,902 sockeye salmon, exceeding the Upper Station late-run harvest forecast point estimate (61,000) but within the forecast range (0 to 726,000). The total commercial salmon harvest for the remaining species in the ABD from July 16 to season's end included 157 Chinook, 10,433 coho, 474,210 pink, and 26,773 chum salmon (Tables 12 and 13).

The late-run Upper Station escapement was 200,894 sockeye salmon, exceeding the established SEG (150,000 to 200,000; Table 2; Figure 15).

SEASON TOTALS

Twenty two purse seine permit holders fished in the ABD fisheries, and harvested 288 Chinook (96.6% of the total Chinook salmon harvest; Tables 4 and 14), 111,455 sockeye (33%; Tables 5 and 14), 5,836 coho (55%; Tables 6 and 14), 407,335 pink (82%; Tables 7 and 14), and 24,733 chum salmon (78%; Tables 8 and 14). Sixty-five gillnet permit holders fished in the ABD, and harvested 10 Chinook (3.4%), 229,947 sockeye (67.4%), 4,756 coho (44.9%), 90,487 pink (18.2%), and 7,133 chum (22.4%) salmon (Tables 4 – 8 and 14). Further, the gillnet harvest can

be apportioned between the Alitak Bay (statistical area 257-41), Moser Bay (statistical area 257-43) and Olga Bay Sections (statistical area 257-40; Table 12). Twenty-five gillnet permit holders fished in Alitak Bay Section, and harvested 6 Chinook, 82,415 sockeye, 1,854 coho, 30,251 pink, and 2,417 chum salmon (Table 12).Twenty-nine gillnet permit holders fished in Moser Bay, and harvested 2 Chinook, 105,741 sockeye, 2,215 coho, 43,149 pink, and 1,918 chum salmon (Table 12). Thirty gillnet permit holders fished in Olga Bay, and harvested 2 Chinook, 40,619 sockeye, 686 coho, 17,036 pink, and 2,771 chum salmon, (Table 12).

Terminal "mop up" harvest fisheries accounted for less than 1.0% of the total ABD sockeye salmon harvest in the ABD. Twelve gillnet permit holders harvested a total of 1,172 sockeye salmon in the Upper Station Section (Table 12).

The relative percentages of the sockeye salmon harvest in traditional fishing sections, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay did not fall within the BOF allocative guidelines in 2003. The Cape Alitak Section harvested 24.85% (allocative guideline 38% to 44%) of the total sockeye salmon harvest. Seine effort (21 permits) was lower than the previous 10-year average (89 permits). The Alitak Bay Section harvested 27.07% of the sockeye salmon (allocative guideline 18% to 24%; Table 15). The Moser Bay Section finished the season with 34.73% of the harvest (allocative guideline 16% to 22%; Table 15). The Olga Bay Section harvested 13.34% of the harvest (allocative guideline 16% to 22%; Table 15).

The Frazer Lake fishpass counted 201,679 sockeye salmon, which is above the current BEG (140,000 – 160,000). However, it is estimated only 30% were adult sockeye salmon with 70% being jack sockeye salmon. The total sockeye salmon escapement into the Upper Station system was 277,069 which exceeded combined early- and late-run SEGs (200,000 – 275,000).

2004 ALITAK BAY DISTRICT FISHERIES

EARLY RUN

The 2004 forecast for the Frazer Lake system was 244,000 sockeye salmon (range 66,000 to 706,000), with an estimated harvestable surplus of approximately 104,000 sockeye salmon. The forecast for Upper Station early run was 163,000 sockeye salmon (range 101,000 to 238,000), with an estimated harvestable surplus of approximately 138,000 sockeye salmon (Brennan et al 2004). Upper Station early-run sockeye salmon are taken incidentally during fisheries primarily targeting Frazer system sockeye salmon or in directed fisheries in upper Olga Bay.

KMA managers tentatively scheduled a commercial salmon fishing period for June 5 in the Alitak Bay District if certain criteria were met prior to June 3. Generally, the Upper Station early-run sockeye salmon have an earlier run timing than the Dog Salmon system (Figure 16). The intent of the early opening was to allow commercial fishermen the opportunity to harvest Upper Station early-run sockeye salmon prior to the Frazer Lake system sockeye salmon peak run timing. Sockeye salmon escapement to the Upper Station system began earlier than normal with higher than average escapement counts by June 3. The early Upper Station OEG (25,000) was exceeded on June 2 and it was evident that the SEG would be achieved. Test fish numbers also indicated a strong push of sockeye salmon traveling into Olga Bay. Criteria being met, the department allowed a 33 hour test fishery on June 5. By June 6, the SEG for Upper Station was achieved and Frazer Lake sockeye salmon escapement (34,677) was well ahead of interim escapement objectives. KMA managers then allowed a series of extensions up to the maximum fishing time allowed (7.4 days) by the Alitak Bay District Management Plan (ABDMP) followed by the regulatory 2.6 day closure.

Escapements into the Upper Station System continued to be strong following the closure and another fishing period was announced for June 16. Concerns of overescapement led KMA managers to open the terminal harvest areas of Inner and Outer Upper Station on June 18 and it remained open until further notice. By June 21 the early Upper Station SEG (50,000 – 75,000) was surpassed (76,725) and the Frazer system escapement (103,924) was well ahead of interim escapement objectives (24,062 – 32,083), and the ABD opened until further notice as dictated in the ABD management plan (5 AAC 18.361)

The ABD, including the normally closed water of the Inner and Outer Upper Station Sections, remained open to commercial salmon fishing until July 2. At that time it became evident that though the escapement at the Dog Salmon weir had been significant, fish were not entering the Frazer Lake fishpass, through which fish must travel in order to enter the Frazer Lake system to spawn. The escapement count at the fishpass was only 30,868 sockeye salmon on June 29. The diversion weir to the fishpass has been rebuilt in the spring, and it had been reported that some fish may have bypassed the weir and could not enter the fishpass. Therefore, a closure was announced in order to allow additional escapement into the system and return to the pulse fishery schedule in the regulatory management plan. The Inner and Outer Upper Station Sections remained open to harvest early-run Upper Station sockeye salmon in excess of escapement needs.

Problems with a new diversion weir at the Frazer Lake fishpass were resolved, and escapement counts at the fishpass increased. The escapements of Frazer Lake sockeye salmon through the Dog Salmon weir (113,926) were within interim objectives (89,100 - 118,800) and well on the way to achieving the season total BEG (140,000 - 200,000). Survey reports from the Dog Salmon Flats Section indicated a substantial number of sockeye salmon, over 35,000, had moved on Dog Salmon Flats and were staged to enter the river. ADF&Gs Chip Cove test fishery catches indicated a large number of sockeye salmon passed Olga Narrows and were moving into the upper bay. The continued good escapement, a large buildup on Dog Salmon Flats, and more fish traveling to the upper bay warranted a 24-hour fishery in the normally closed Dog Salmon Flats Section.

The ABD salmon harvest through July 15 included 945 Chinook, 641,652 sockeye, 608 coho, 25,736 pink, and 18,206 chum salmon (Table 16 and 17). The sockeye salmon harvest, through July 15, for the seine only sections (Cape Alitak and Humpy-Deadman) was 275,258 (42.9%), and for the gillnet only sections (Alitak Bay, Moser Bay, and Olga Bay) was 366,394 (57.1%) sockeye salmon (Table 17).

Escapement through the Dog Salmon weir by July 15 was 156,942 sockeye salmon, which was within interim escapement objectives (120,000 – 160,000; Figure 13). The sockeye salmon escapement through the Upper Station weir was 78,487, surpassing the early-run SEG (50,000 - 75,000 through July 15; Figure 14).

LATE RUN

The ABD Salmon Management Plan (5AAC 18.361) dictates that during even-numbered years (as in 2004) from July 16 through August 9 commercial salmon fishing must be managed in the Cape Alitak, Moser, and Olga Bay Sections based on the sockeye salmon run to the Upper Station system. The Humpy-Deadman Section shall be managed based on the strength of salmon runs to its systems through season's end. The forecasted late-run Upper Station sockeye salmon run was strong, estimated at 538,000 (range 421,000 to 1,426,000) with a harvestable surplus of

approximately 363,000. The 2004 forecasted pink salmon harvest for the ABD was approximately 1.9 to 2.3 million pink salmon (Brennan et al. 2004).

With the expected strength of the late-run Upper Station sockeye salmon and continuing strong late escapements into Frazer Lake, fishing time was allowed in the ABD beginning July 16. Even with the commercial fisheries, the Upper Station sockeye salmon escapement counts continued at a good rate, meeting and exceeding interim objectives near the end of August (Figure 15). The ADF&G crew at the Dog Salmon weir also reported large numbers of sockeye salmon having staged in the terminal Dog Salmon Flats Section at the outlet of the river, were past the 'traditional' fishing areas. Fishing time was warranted in the Dog Salmon Flats Section and a 24-hour fishery was allowed on July 17. The remainder of the ABD was allowed maximum fishing time until the end of the season.

Effort during late July and August was similar to June and early July, with 22 seine and 67 gillnet permits holders operating in the District, and the last delivery occurring on September 16 (Tables 16 and 17). Harvests from late ABD fisheries include approximately 371 Chinook, 514,887 sockeye, 15,289 coho, 1,394,452 pink, and 20,142 chum salmon (Table 17).

The late-run Upper Station escapement was 175,252 sockeye salmon, meeting the established SEG (150,000 to 200,000; Figure 15).

SEASON TOTALS

Thirty two purse seine permit holders fished in the ABD fisheries, and harvested 1,263 Chinook (96% of the total ABD Chinook harvest), 448,128 sockeye (39%), 7,366 coho (46%), 1,075,327 pink (76%), and 23,104 chum salmon (60%; Tables 4 – 8, and 17). Seventy-one gillnet permit holders fished in the ABD, and harvested 53 Chinook (4%), 708,411 sockeye (61%), 8,531 coho (54%), 344,861 pink (24%), and 15,244 chum (40%) salmon (Tables 4 – 8, and 17). Further, gillnet harvest can be apportioned between the Alitak Bay (statistical area 257-41), Moser Bay (statistical area 257-43) and Olga Bay Sections (statistical area 257-40). Thirty-five gillnet permit holders fished in Alitak Bay Section, and harvested 22 Chinook, 286,847 sockeye, 2,156 coho, 99,112 pink, and 5,136 chum salmon (Table 16). Thirty-nine gillnet permit holders fished in Moser Bay, and harvested 16 Chinook, 275,517 sockeye, 4,607 coho, 159,238 pink, and 3,929 chum salmon (Table 16). Thirty-two gillnet permit holders fished in Olga Bay, and harvested 14 Chinook, 134,095 sockeye, 1,768 coho, 86,408 pink, and 4,363 chum salmon, (Table 16).

Terminal harvest fisheries accounted for approximately 1% of the total ABD sockeye salmon harvest in the ABD. Nineteen gill net permit holders harvested a total of 9,805 sockeye salmon in the Dog Salmon Flats Section (257-42) and 2,147 in the Inner and Outer Upper Station Section (257-30; Table 16).

The relative percentages of the sockeye salmon harvest in traditional fishing sections, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay did not fall within the BOF allocative guidelines in 2004. The Cape Alitak Section harvested 36.80% of the total sockeye salmon (allocative guideline 38% to 44%; Table 15). The Alitak Bay Section harvested 26.03% of the sockeye salmon (allocative guideline 18% to 24%; Table 15). The Moser Bay Section finished the season with 25.00% of the harvest (allocative guideline 16% to 22%); while the Olga Bay Section harvested 12.17% (allocative guideline 16% to 22%; Table 15).

The Frazer Lake escapement (counted through the Dog Salmon weir) equaled 226,266 sockeye salmon (Figure 13). However, the sockeye salmon escapement through the Frazer Lake fishpass equaled 120,664, which was below the current BEG (140,000 – 160,000). The total sockeye

salmon escapement into the Upper Station system was 255,595, which was within the combined early- and late-run SEGs (200,000 – 275,000).

REFERENCES CITED

ADF&G (Alaska Department of Fish and Game). 1993. An atlas to the catalog of waters important for spawning, rearing, or migration of anadromous fishes; Southwestern Region, Resource Management Region III. Alaska Department of Fish and Game, Division of Habitat, Anchorage. Revised Feb. 11, 1993.

ADF&G (Alaska Department of Fish and Game). 2002. 2002-2005 Chignik and Kodiak areas commercial salmon fishing regulations. Alaska Department of Fish and Game, Commercial Fisheries Division, Juneau.

Blackett, R.F. 1979. Establishment of sockeye (*Oncorhynchus nerka*) and Chinook (*O. tshawytscha*) salmon runs at Frazer Lake, Kodiak Island, Alaska. J. Fish. Res. Board Can. 36:1265-1277.

Brennan, K., D. Gretsch, and J. Wadle. 2002. Kodiak management area harvest strategy for the 2002 commercial salmon season. Alaska Department of Fish and Game. Division of Commercial Fisheries. Regional Information Report No. 4k02-31. Kodiak.

Brennan, K., D. Gretsch, and J. Wadle. 2003. Kodiak management area harvest strategy for the 2003 commercial salmon season. Alaska Department of Fish and Game. Division of Commercial Fisheries. Regional Information Report No. 4k03-24. Kodiak.

Brennan, K., J. Wadle, and D. Gretsch. 2004. Kodiak management area harvest strategy for the 2004 commercial salmon fishery. Alaska Department of Fish and Game. Division of Commercial Fisheries. Regional Information Report No. 4k04-19. Kodiak.

Manthey, K., L. Malloy, and L. Wright. 1977. Kodiak management area finfish annual report, 1977. Alaska Department of Fish and Game, Division of Commercial Fisheries, Region IV Report (unpublished), Kodiak.

Manthey, K., L. Malloy, and L. Wright. 1978. Kodiak management area finfish annual report, 1978. Alaska Department of Fish and Game, Division of Commercial Fisheries, Region IV Report (unpublished), Kodiak.

Manthey, K., D. Prokopowich, and L. Wright. 1981. Kodiak management area finfish annual report, 1981. Alaska Department of Fish and Game, Division of Commercial Fisheries, Region IV Report (unpublished), Kodiak.

Manthey, K., D. Prokopowich, and L. Wright. 1983. Kodiak management area finfish annual report, 1983. Alaska Department of Fish and Game, Division of Commercial Fisheries, Region IV Report (unpublished), Kodiak.

Nelson, P.A. and D. Lloyd. 2001. Escapement goals for Pacific salmon in the Kodiak, Chignik and Alaska Peninsula/Aleutian Islands areas of Alaska. Alaska Department of Fish and Game, Division of Commercial Fisheries. Regional Information Report No. 4K01-66. Kodiak

Roppel, P. 1986. Salmon from Kodiak: a history of the salmon fishery of Kodiak Island, Alaska. Alaska Historic Commission, Studies in History No. 216. Anchorage.

Wadle, J.A. 2004. Kodiak management area commercial salmon annual management report, 2002. Alaska Department of Fish and Game, Division of Commercial Fisheries. Regional Information Report No. 4K04-1. Kodiak.

TABLES AND FIGURES

Table 1.-Chronology of events affecting the management of commercial salmon fisheries in the Alitak Bay District, Kodiak Management Area, 1960 to 2004.

Year	Management Action or Change
1960	The Alaska Department of Fish and Game assumes management control of salmon fisheries. Weekly fishing periods set preseason, with Emergency Order closures announced when needed.
1962	Fishpass constructed on barrier falls near Frazer Lake outlet.
1970	Continued poor returns of Alitak Bay sockeye salmon stocks leads to complete closure of the Alitak Bay District during June.
1971	Last year of sockeye salmon plants into the Frazer system. Adult returns are sufficient to insure population buildup. Optimum Frazer Lake escapement estimated to be near 120,000 sockeye salmon. Management minimum escapement goal set at 175,000.
1975	Frazer Lake optimum sockeye salmon escapement estimated at 365,000 - 400,000. Management minimum escapement goal still 175,000. Upper Station sockeye salmon escapement goal set at 180,000.
	Fishing periods set inseason by Emergency Order. Limited Entry comes to Kodiak salmon fisheries.
1978	Frazer escapement goal first published at 175,000 - 250,000. Upper Station sockeye salmon escapement goal listed at 100,000 - 180,000, with interim goals for July (30,000), August (130,000), and September (20,000).
	Minimum of two single day fisheries in June allowed (June 14 and 22). However, only gillnet areas opened (Moser/Olga Bay).
1980	Frazer Lake sockeye salmon escapement (405,525) meets optimum level developed in 1975 (365,000 - 400,000).
1981	Frazer Lake sockeye salmon escapement goal raised to 350,000 – 400,000. Frazer sockeye escapement was high (377,716).
1982	Moser/Olga Bay Section split into two statistical areas to separate gillnet catch from Moser Bay vs. Olga Bay. Frazer sockeye escapement again high (430,423).
1983	Equal fishing time mandated for gillnet area (Moser/Olga Bay) and seine areas (Cape Alitak and Humpy-Deadman) during June. Harvest strategy recognizes possible upper Olga Bay closed water gillnet only openings in the event of sockeye salmon escapements higher than established interim goals.
	Upper Station sockeye salmon escapement goal raised to 150,000 - 250,000, with interim goals for June and July (50,000), August (175,000), and September (25,000).
	Weir installed near saltwater on Dog Salmon Creek (which drains Frazer Lake), in order to assess salmon buildups on Dog Salmon Flats and provide more timely counts of Frazer sockeye salmon escapement.
1984	More aggressive harvest strategy by ADF&G. First June 9 “commercial test fishery” for the Alitak Bay District.
	Poor sockeye salmon return to Frazer Lake; the effects of previous overescapements suspected.
	First gillnet mop up fishery in upper Olga Bay for late-run Upper Station sockeye salmon.

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Table 1.- (Page 2 of 3)

Year	Management Action or Change
1985	First gillnet "mop up" fishery on Dog Salmon Flats for Frazer Lake sockeye salmon.
	ADF&G salmon research staff begins development of formal sockeye salmon forecasts. Sockeye salmon runs broken down into early (pre-July 15) and late (post-July 15) runs.
1986	ADF&G early-run sockeye salmon test fishery begins in Alitak Bay.
	Second year of weak sockeye salmon return to Frazer system. Record late sockeye salmon run to Upper Station. Gillnet mop up fisheries in upper Olga Bay for early and late-run Upper Station sockeye salmon.
	Frazer Lake sockeye salmon escapement goal lowered to 200,000 - 275,000. Escapement goals for other Alitak Bay District salmon species first listed.
1987	Gillnet mop up fishery in upper Olga Bay for early and late-run Upper Station sockeye salmon.
1988	Alitak Bay District Salmon Management Plan placed in Regulations (5AAC 18.361)
	Frazer Lake sockeye salmon escapement goal lowered to 140,000 - 200,000. Upper Station sockeye salmon escapement goal raised to 200,000 - 275,000 with early run (pre-July 15) at 50,000 - 75,000, and late run (post-July 15) at 150,000 - 200,000.
1990	New record sockeye salmon harvest in the Alitak Bay District. Gillnet mop up fishery on Dog Salmon Flats for Frazer Lake sockeye salmon, and in upper Olga Bay for late-run Upper Station sockeye salmon.
1991	New record sockeye salmon harvest in the Alitak Bay District. Gillnet mop up fishery on Dog Salmon Flats for Frazer sockeye salmon.
1992	Gillnet mop up fishery at Inner Akalura Section for late-run Akalura sockeye salmon.
1994	Gillnet mop up fishery on Dog Salmon Flats for Frazer sockeye salmon, and in upper Olga Bay for late-run Upper Station sockeye salmon.
1995	Normally closed sections in Olga Bay (Dog Salmon Flats, Inner and Outer Upper Station, and Inner and Outer Akalura) given separate statistical numbers to allows discrimination of catches from those areas.
1997	Gillnet mop up fishery on Dog Salmon Flats for Frazer Lake sockeye salmon, and in upper Olga Bay for late-run Upper Station sockeye salmon.
1999	Alitak Bay District Salmon Management Plan revised to include a pulse fishery; for every 10 days of fishing there must be 2.6 days of closure. Early-run sockeye salmon into the Upper Station managed with an Optimal Escapement Goal of 25,000, and the Frazer system sockeye salmon managed for MSY. The initial 33-hour commercial test fishery may occur between June 5 and June 13.

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Table 1.-(Page 3 of 3)

Year	Management Action or Change
2001	Earliest return of sockeye salmon to the Frazer system. Gillnet mop up fishery on Dog Salmon Flats for Frazer Lake sockeye salmon.
2002	In January 2002, the Alitak Bay District Salmon Management Plan was revised to include staggered opening times for the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections. The Moser Bay Section was created. The BOF created allocative objectives as a guideline for determining the effectiveness of the revised Management Plan. Weak sockeye salmon returns, no commercial harvest in the ABD except Humpy-Deadman Section In November of 2002, the Alitak Bay District Salmon Management Plan again revised, the current staggered opening times were changed so that all sections opened on the same day and the Cape Alitak Section would not open on a rotating basis.
2003	June 5 opening date, first staggered fishing periods, Upper Station mop up fishery
2004	June 5 opening date, staggered fishing periods suspended in July due to overescapement concerns to Upper Station. Gillnet mop up fishery on Dog Salmon Flats and the Inner and Outer Upper Station Sections for early-run sockeye salmon.

Table 2.-Salmon escapement goals and representative index streams in the Alitak Bay District, of the Kodiak Management Area, 2004.

Stream Number	Stream Name	Run Timing	Optimal Escapement Goal[b]	Current Escapement Goal Lower	Current Escapement Goal Upper
Alitak Sockeye Systems					
(257-304)	Upper Station[a] - Early-Run	Early June to Mid July	25,000	50,000	75,000
	Late-Run	Mid July to Mid September		150,000	200,000
				200,000	275,000
(257-403)	Frazer[a]	Early June to Mid July		140,000	200,000
(257-302)	Akalura	Mid July to Mid September		40,000	60,000
Other systems[c]		Mid July to Mid August		6,000	15,000
Total Alitak Sockeye Aggregate Escapement Objective				386,000	550,000
Alitak Coho Salmon Systems					
(257-304)	Upper Station[a]	Mid August to October		3,500	5,500
(257-403)	Dog Salmon[a]	Mid August to October		3,500	5,500
(257-302)	Akalura	Mid August to October		1,500	3,500
Total Alitak Coho Salmon Escapement Goal				8,500	14,500

Stream Number	Stream Name	Run Timing	Even-Year Component Objective Lower	Even-Year Component Objective Upper	Odd-Year Component Objective Lower	Odd-Year Component Objective Upper
Alitak Pink Salmon Systems						
(257-701)	Humpy	Mid July to Late August	70,000	210,000	90,000	270,000
(257-403)	Dog Salmon[a] - Even-Year	Late July to Early September	50,000	150,000		
	Odd-Year	Early July to Mid August			60,000	180,000
(257-502)	Deadman	Late July to Early September	40,000	120,000	60,000	180,000
(257-401)	Narrows	Late July to Late August	2,000	6,000	2,000	6,000
Alitak Pink Salmon Escapement Goal			162,000	486,000	212,000	636,000

Stream Number	Stream Name	Run Timing	Current Component Objective Lower	Current Component Objective Upper
Alitak Chum Salmon Systems				
(257-102)	Big Sukhoi	Early July to Mid August	10,000	30,000
(257-603)	Sulua	Late July to Late August	5,000	15,000
(257-502)	Deadman	Mid July to Late August	3,000	9,000
(257-401)	Narrows	August	1,000	3,000
(257-403)	Dog Salmon[a]	July to Early September	2,000	6,000
(257-601)	Portage	Late July to Late August	5,000	15,000
Total Alitak Chum Salmon Escapement Goal			26,000	78,000

[a] Goals reflect escapement as measured by weirs; all others as measured by aerial survey.
[b] The optimal escapement goal of Upper Station was mandated by the BOF in 1999 in order to conserve the early-run component of the Upper Station sockeye salmon.
[c] Includes systems without published escapement goals that contribute escapement to the Alitak Bay District.

Table 3.-Historical salmon escapements and goals, by species, for the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.

	Escapement Goals				
	CHINOOK[a]	SOCKEYE[a]	COHO	PINK	CHUM
				Even : Odd	
Lower	110	386,000	8,500	162,000 : 212,000	26,000
Upper	330	550,000	14,500	486,000 : 636,000	78,000

	Escapement of Salmon				
Year	CHINOOK	SOCKEYE	COHO	PINK	CHUM
1970	2	80,695	2,902	256,898	13,200
1971	24	163,793	4,031	333,800	6,602
1972	117	188,569	7,512	145,000	21,783
1973	35	150,157	6,308	128,566	10,821
1974	12	403,048	9,042	235,788	6,700
1975	6	163,124	13,513	235,744	27,220
1976	21	223,463	11,779	634,115	33,755
1977	205	218,355	9,762	411,508	46,520
1978	143	274,210	6,547	657,337	35,683
1979	53	332,325	11,605	569,185	9,815
1980	69	528,154	3,050	517,905	99,575
1981	22	579,494	8,733	625,206	68,110
1982	47	920,706	10,439	466,829	122,900
1983	169	467,305	14,754	440,358	117,917
1984	138	396,100	7,855	313,518	110,522
1985	341	933,852	10,798	798,638	53,168
1986	222	621,758	11,463	380,321	26,634
1987	104	295,667	18,563	512,694	123,248
1988	305	612,395	15,734	211,868	47,033
1989 [b]	160	771,359	20,588	2,710,821	53,199
1990	275	563,388	26,066	89,013	16,441
1991	283	636,591	32,235	468,244	139,520
1992	265	491,445	21,838	183,124	49,372
1993	337	458,485	21,205	949,662	23,742
1994	391	518,814	18,257	545,907	69,096
1995	470	470,931	20,188	3,796,345	66,438
1996	685	524,085	21,946	490,459	44,387
1997	662	572,170	23,192	505,001	68,857
1998	294	490,220	52,941	1,353,251	67,029
1999	282	509,382	14,018	965,492	124,549
2000	359	423,311	18,426	394,698	73,076
2001	367	321,782	15,469	767,986	45,286
2002	387	303,619	25,298	1,961,562	44,745
2003	724	562,020	34,872	899,658	69,588
2004	577	489,061	9,397	1,008,986	34,406
Averages:					
1970-03	235	446,199	16,204	704,603	56,957
1994-03	462	469,633	24,461	1,168,036	67,305

[a] Includes systems without published escapement goals that contribute to the escapement.
[b] Commercial fisheries severely restricted due to the M/V Exxon Valdez oil spill.

Table 4.-Commercial Chinook salmon harvest by gear for the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.

	SEINE[a]			GILLNET[a]			Total
Year	# Permits	Harvest	Percent	# Permits	Harvest	Percent	Harvest
1970	79	4	50	49	4	50	8
1971	119	23	70	47	10	30	33
1972	69	9	60	46	6	40	15
1973	45	2	50	38	2	50	4
1974	73	16	84	45	3	16	19
1975	46	0	0	45	0	0	0
1976	121	13	72	56	5	28	18
1977	75	12	60	55	8	40	20
1978	172	294	42	61	400	58	694
1979	149	82	76	63	26	24	108
1980	96	27	82	64	6	18	33
1981	94	39	87	64	6	13	45
1982	109	30	70	66	13	30	43
1983	158	140	88	68	19	12	159
1984	75	258	89	70	32	11	290
1985	125	158	79	75	41	21	199
1986	146	111	83	79	23	17	134
1987	153	93	89	73	12	11	105
1988	123	558	89	81	66	11	624
1989	1	0	0	87	106	100	106
1990	158	667	83	91	140	17	807
1991	187	740	90	86	81	10	821
1992	141	964	91	79	92	9	1,056
1993	116	1,646	90	76	182	10	1,828
1994	111	1,794	92	74	152	8	1,946
1995	149	718	85	75	130	15	848
1996	138	467	82	80	102	18	569
1997	92	202	69	78	89	31	291
1998	71	1,394	94	77	93	6	1,487
1999	50	239	88	76	32	12	271
2000	58	390	90	77	43	10	433
2001	34	581	89	77	70	11	651
2002	13	13	100	0	0	0	13
2003	22	288	97	65	10	3	298
2004	32	1,263	96	71	53	4	1,316
AVERAGES[b]:							
1970-03	97	352	86	66	62	15	411
1978-87	128	123	68	68	58	32	181
1994-03	74	609	89	68	72	11	681

[a] Harvest in numbers of fish. Data from ADF&G Annual Management Reports and fish ticket summaries.
[b] 1989 not included in averages; commercial fisheries were severely restricted due to the M/V Exxon Valdez oil spill.

Table 5.-Commercial sockeye salmon harvest by gear for the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.

	SEINE[a]			GILLNET[a]			Total
Year	# Permits	Harvest	Percent	# Permits	Harvest	Percent	Harvest
1970	79	19,528	24	49	62,016	76	81,544
1971	119	55,514	45	47	68,966	55	124,480
1972	69	6,681	30	46	15,446	70	22,127
1973	45	3,889	38	38	6,449	62	10,338
1974	73	33,323	49	45	34,420	51	67,743
1975	46	4,746	29	45	11,752	71	16,498
1976	121	28,304	29	56	68,711	71	97,015
1977	75	24,474	31	55	54,338	69	78,812
1978	172	88,921	41	61	129,380	59	218,301
1979	149	158,400	50	63	158,860	50	317,260
1980	96	36,252	18	64	161,514	82	197,766
1981	94	91,525	26	64	254,548	74	346,073
1982	109	67,168	14	66	409,694	86	476,862
1983	158	190,776	41	68	269,311	59	460,087
1984	75	126,515	33	70	256,214	67	382,729
1985	125	262,924	37	75	440,311	63	703,235
1986	146	522,383	42	79	724,983	58	1,247,366
1987	153	193,206	37	73	322,204	63	515,410
1988	123	470,529	42	81	653,318	58	1,123,847
1989	1	107	0	87	1,284,067	100	1,284,174
1990	158	690,818	48	91	744,643	52	1,435,461
1991	187	864,944	42	86	1,197,774	58	2,062,718
1992	141	248,699	47	79	276,459	53	525,158
1993	116	474,096	47	76	524,655	53	998,751
1994	111	430,462	46	74	500,866	54	931,328
1995	149	890,194	53	75	782,998	47	1,673,192
1996	138	676,011	46	80	782,204	54	1,458,215
1997	92	282,047	41	78	403,588	59	685,635
1998	71	435,018	43	77	567,572	57	1,002,590
1999	50	193,096	31	76	438,260	69	631,356
2000	58	237,614	43	77	321,060	57	558,674
2001	34	166,550	36	77	295,235	64	461,785
2002	13	14,575	100	0	0	0	14,575
2003	22	111,455	33	65	229,947	67	341,402
2004	32	448,128	39	71	708,411	61	1,156,539
AVERAGES[b]:							
1970-03	99	238,257	39	66	366,228	61	604,486
1978-87	128	173,807	36	68	312,702	64	486,509
1994-03	96	343,702	44	77	432,173	56	775,875

[a] Harvest in numbers of fish. Data from ADF&G Annual Management Reports and fish ticket summaries.
[b] 1989 not included in averages; commercial fisheries were severely restricted due to the M/V Exxon Valdez oil spill.

Table 6.-Commercial coho salmon harvest by gear for the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.

	SEINE[a]			GILLNET[a]			Total
Year	# Permits	Harvest	Percent	# Permits	Harvest	Percent	Harvest
1970	79	1,227	27	49	3,313	73	4,540
1971	119	777	34	47	1,484	66	2,261
1972	69	647	50	46	642	50	1,289
1973	45	38	30	38	87	70	125
1974	73	661	51	45	623	49	1,284
1975	46	1,586	97	45	41	3	1,627
1976	121	1,676	47	56	1,859	53	3,535
1977	75	572	43	55	771	57	1,343
1978	172	1,327	48	61	1,461	52	2,788
1979	149	6,840	46	63	8,167	54	15,007
1980	96	8,665	66	64	4,455	34	13,120
1981	94	7,611	45	64	9,400	55	17,011
1982	109	17,504	60	66	11,874	40	29,378
1983	158	15,825	55	68	13,122	45	28,947
1984	75	12,409	49	70	12,890	51	25,299
1985	125	22,707	52	75	21,207	48	43,914
1986	146	17,041	56	79	13,507	44	30,548
1987	153	8,481	47	73	9,478	53	17,959
1988	123	18,670	62	81	11,331	38	30,001
1989	1	0	0	87	14,139	100	14,139
1990	158	6,300	35	91	11,876	65	18,176
1991	187	11,783	48	86	12,818	52	24,601
1992	141	11,107	45	79	13,441	55	24,548
1993	116	11,641	60	76	7,630	40	19,271
1994	111	18,186	56	74	14,126	44	32,312
1995	149	10,055	53	75	8,945	47	19,000
1996	138	18,967	53	80	16,562	47	35,529
1997	92	19,860	59	78	13,689	41	33,549
1998	71	17,004	53	77	15,181	47	32,185
1999	50	3,439	26	76	9,687	74	13,126
2000	58	4,919	49	77	5,212	51	10,131
2001	34	1,881	76	77	590	24	2,471
2002	13	1,060	100	0	0	0	1,060
2003	22	5,836	55	65	4,756	45	10,592
2004	32	7,366	46	71	8,531	54	15,897
AVERAGES[b]:							
1970-03	99	8,421	51	66	8,070	49	16,490
1978-87	128	11,841	53	68	10,556	47	22,397
1994-03	79	10,121	53	70	8,875	47	18,996

[a] Harvest in numbers of fish. Data from ADF&G Annual Management Reports and fish ticket summaries.
[b] 1989 not included in averages; commercial fisheries were severely restricted due to the M/V Exxon Valdez oil spill.

Table 7.-Commercial pink salmon harvest by gear for the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.

	SEINE[a]			GILLNET[a]			Total
Year	# Permits	Harvest	Percent	# Permits	Harvest	Percent	Harvest
1970	79	691,013	73	49	258,858	27	949,871
1971	119	955,531	90	47	110,649	10	1,066,180
1972	69	156,773	83	46	31,704	17	188,477
1973	45	32,486	65	38	17,446	35	49,932
1974	73	321,568	91	45	33,586	9	355,154
1975	46	210,456	89	45	25,255	11	235,711
1976	121	1,361,475	75	56	465,007	25	1,826,482
1977	75	738,853	77	55	222,820	23	961,673
1978	172	3,691,218	88	61	500,538	12	4,191,756
1979	149	1,550,402	93	63	114,008	7	1,664,410
1980	96	1,812,336	88	64	239,937	12	2,052,273
1981	94	1,807,562	87	64	266,067	13	2,073,629
1982	109	380,224	73	66	139,656	27	519,880
1983	158	1,338,208	94	68	90,318	6	1,428,526
1984	75	323,767	75	70	110,039	25	433,806
1985	125	907,028	86	75	150,912	14	1,057,940
1986	146	603,812	83	79	124,393	17	728,205
1987	153	831,927	91	73	84,948	9	916,875
1988	123	251,888	65	81	133,847	35	385,735
1989	1	0	0	87	182,217	100	182,217
1990	158	125,678	87	91	19,249	13	144,927
1991	187	2,261,769	95	86	111,747	5	2,373,516
1992	141	42,942	72	79	16,326	28	59,268
1993	116	3,259,000	94	76	206,473	6	3,465,473
1994	111	1,024,739	91	74	96,093	9	1,120,832
1995	149	6,638,137	94	75	427,787	6	7,065,924
1996	138	339,155	61	80	214,269	39	553,424
1997	92	816,687	85	78	138,566	15	955,253
1998	71	1,266,107	74	77	438,474	26	1,704,581
1999	50	1,187,407	88	76	166,451	12	1,353,858
2000	58	169,953	70	77	73,208	30	243,161
2001	34	1,342,867	93	77	97,063	7	1,439,930
2002	13	1,078,120	100	0	0	0	1,078,120
2003	22	407,335	82	65	90,487	18	497,822
2004	32	1,075,327	76	71	344,861	24	1,420,188
AVERAGES[b]:							
1970-03	99	1,115,483	88	66	158,776	12	1,274,259
Odd Years	106	1,517,853	91	66	145,062	9	1,662,916
Even Years	100	844,693	82	63	179,746	18	1,024,439
1978-87	128	1,324,648	88	68	182,082	12	1,506,730
Odd Years	136	1,287,025	90	69	141,251	10	1,428,276
Even Years	120	1,362,271	86	68	222,913	14	1,585,184
1994-03	79	1,427,051	89	80	174,240	11	1,601,291
Odd Years	88	2,078,487	92	76	184,071	8	2,262,557
Even Years	104	775,615	83	77	164,409	17	940,024

[a] Harvest in numbers of fish. Data from ADF&G Annual Management Reports and fish ticket summaries.
[b] 1989 not included in averages; commercial fisheries were severely restricted due to the M/V Exxon Valdez oil spill.

Table 8.-Commercial chum salmon harvest by gear for the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.

	SEINE[a]			GILLNET[a]			Total
Year	# Permits	Harvest	Percent	# Permits	Harvest	Percent	Harvest
1970	79	79,433	85	49	13,887	15	93,320
1971	119	178,454	93	47	12,983	7	191,437
1972	69	89,117	94	46	6,018	6	95,135
1973	45	19,880	81	38	4,528	19	24,408
1974	73	21,870	91	45	2,069	9	23,939
1975	46	1,731	61	45	1,122	39	2,853
1976	121	58,926	86	56	9,206	14	68,132
1977	75	62,652	88	55	8,317	12	70,969
1978	172	60,625	84	61	11,541	16	72,166
1979	149	15,245	68	63	7,217	32	22,462
1980	96	59,808	88	64	7,833	12	67,641
1981	94	38,722	63	64	22,791	37	61,513
1982	109	79,398	78	66	22,145	22	101,543
1983	158	85,491	79	68	22,295	21	107,786
1984	75	64,145	76	70	20,779	24	84,924
1985	125	57,077	67	75	27,683	33	84,760
1986	146	63,185	84	79	12,458	16	75,643
1987	153	37,865	63	73	21,858	37	59,723
1988	123	60,693	65	81	32,698	35	93,391
1989	1	0	0	87	19,908	100	19,908
1990	158	32,083	64	91	18,221	36	50,304
1991	187	63,483	76	86	19,520	24	83,003
1992	141	19,642	57	79	14,938	43	34,580
1993	116	39,415	73	76	14,221	27	53,636
1994	111	91,468	82	74	20,723	18	112,191
1995	149	87,163	83	75	18,037	17	105,200
1996	138	45,536	71	80	18,714	29	64,250
1997	92	56,437	66	78	29,273	34	85,710
1998	71	24,492	60	77	16,054	40	40,546
1999	50	66,040	84	76	12,910	16	78,950
2000	58	55,467	83	77	11,722	17	67,189
2001	34	41,371	79	77	11,150	21	52,521
2002	13	10,164	100	0	0	0	10,164
2003	22	24,733	78	65	7,133	22	31,866
2004	32	23,104	60	71	15,244	40	38,348
AVERAGES[b]:							
1970-03	99	52,700	78	66	14,704	22	67,405
1978-87	128	56,156	76	68	17,660	24	73,816
1994-03	74	50,287	78	68	14,572	22	67,036

[a] Harvest in numbers of fish. Data from ADF&G Annual Management Reports and fish ticket summaries.

[b] 1989 not included in averages; commercial fisheries were severely restricted due to the M/V Exxon Valdez oil spill.

Table 9.-Chronology of commercial fishery openings in the normally closed waters sections of Olga Bay, in the Alitak Bay District of the Kodiak Management Area, 1983 to 2004.

Year[a]	Dates	Location	Targeted Salmon Stocks
1983	9/6-10/31	Inner and Outer Upper Station, and Outer Akalura	Late Upper Station Sockeye and Upper Olga Bay Coho
	9/26-10/31	Dog Salmon Flats	Dog Salmon and Horse Marine Coho
1984	9/1-6	Inner and Outer Upper Station, and Outer Akalura	Late Upper Station Sockeye and Upper Olga Bay Coho
	9/5-6, 9/10-12, 9/17-19, 9/24-10/31	Dog Salmon Flats	Dog Salmon and Horse Marine Coho
1985	7/3-6	Dog Salmon Flats	Frazer Sockeye
	8/22-25	Inner and Outer Upper Station	Late Upper Station Sockeye
	9/12-10/31	Outer Upper Station and Outer Akalura	Upper Olga Bay Coho
1986	6/22–30	Inner Upper Station	Early Upper Station Sockeye
	6/22–7/10, 7/12-17	Outer Upper Station	Early Upper Station Sockeye
	8/17-27	Inner and Outer Upper Station	Late Upper Station Sockeye
	9/5-10/31	Dog Salmon Flats	Dog Salmon and Horse Marine Coho
1987	6/17-19, 6/24-7/7	Outer Upper Station	Early Upper Station Sockeye
	6/25-28	Inner Upper Station	Early Upper Station Sockeye
1988	6/26-28	Outer Upper Station	Early Upper Station Sockeye
	7/11-12	Dog Salmon Flats	Frazer Sockeye
	8/14-20	Inner Upper Station	Late Upper Station Sockeye
	8/11-20, 8/23-25, 8/30-9/16, 9/19-10/31	Outer Upper Station	Late Upper Station Sockeye and Coho
	9/6-16, 9/19-10/31	Outer Akalura	Late Sockeye and Coho
1990	6/27-7/11, 7/28+30	Dog Salmon Flats	Frazer Sockeye
	8/16-18	Outer Upper Station	Late Upper Station Sockeye
1991	6/30-7/17	Dog Salmon Flats	Frazer Sockeye
	9/11-10/31	Outer Upper Station and Outer Akalura	Upper Bay Sockeye and Coho
1992	8/20	Inner Akalura	Akalura Sockeye
1994	7/20	Dog Salmon Flats	Frazer Sockeye
	8/24-27	Inner and Outer Upper Station	Late Upper Station Sockeye
1997	6/21-22	Dog Salmon Flats	Frazer Sockeye
	8/29	Inner and Outer Upper Station	Late Upper Station Sockeye
	9/7-10/31	Outer Upper Station	Late Upper Station Sockeye and Coho
2001	6/17-6/21	Dog Salmon Flats	Frazer Sockeye
2003	7/11-7/15	Inner and Outer Upper Station	Early Upper Station
	8/23-10/31	Outer Upper Station	Late Upper Station
	8/24-10/31	Inner Upper Station	Late Upper Station
2004	6/18-7/13	Inner and Outer Upper Station	Early Upper Station
	7/7-7/8	Dog Salmon Flats	Frazer Sockeye
	7/17-7/18	Dog Salmon Flats	Frazer Sockeye

[a] Prior to 1988 there were no defined Sections in upper Olga Bay, but the equivalent areas are listed.

Table 10.-Primary management species and management chronology of the Alitak Bay District Salmon Management Plan for the Kodiak Management Area.

Alitak Bay District Salmon Management Plan						
HUMPY-DEADMAN SECTION (SEINE)	33 HOUR COMMERCIAL TEST FISHERY	FRAZER AND EARLY UPPER STATION SOCKEYE	ALITAK BAY PINK, CHUM, AND COHO			
CAPE ALITAK SECTION (SEINE)		FRAZER AND EARLY UPPER STATION SOCKEYE	ODD-YEAR CYCLE FRAZER PINK SALMON EVEN-YEAR CYCLE UPPER STATION SOCKEYE (LATE RUN)	ODD-YEAR CYCLE UPPER STATION SOCKEYE (LATE RUN) EVEN-YEAR CYCLE UPPER STATION SOCKEYE & FRAZER PINK SALMON	ALL ALITAK DISTRICT COHO SYSTEMS	
MOSER-OLGA BAY SECTION (GILLNET)		FRAZER AND EARLY UPPER STATION SOCKEYE	ODD-YEAR CYCLE FRAZER PINK SALMON EVEN-YEAR CYCLE UPPER STATION SOCKEYE (LATE RUN)	ODD-YEAR CYCLE UPPER STATION SOCKEYE (LATE RUN) EVEN-YEAR CYCLE UPPER STATION SOCKEYE & FRAZER PINK SALMON	ALL OLGA BAY COHO SYSTEMS	
SECTIONS LISTED BELOW ARE NORMALLY CLOSED WATERS, EXCEPT FOR MOP-UP FISHERIES BASED ON:						
OUTER UPPER & INNER UPPER STATION (GILLNET) (NON-TRADITIONAL)		UPPER STATION SOCKEYE (EARLY RUN)	UPPER STATION (LATE RUN)	UPPER STATION SOCKEYE & COHO	UPPER STATION COHO	
OUTER AKALURA & INNER AKALURA SECTIONS (GILLNET) (NON-TRADITIONAL)		AKALURA SOCKEYE (EARLY RUN)	AKALURA SOCKEYE (LATE RUN)	AKALURA SOCKEYE & COHO	AKALURA COHO	
DOG SALMON FLATS SECTION (GILLNET) (NON-TRADITIONAL)		FRAZER SOCKEYE	FRAZER PINK SALMON	FRAZER AND HORSE MARINE COHO		
6/5		7/16	8/10	8/21	8/26	

Table 11.-Changes in gear regulations affecting the commercial salmon fisheries in the Alitak Bay District of the Kodiak Management Area, 1983 to 2004.

YEAR	GEAR REGULATIONS
Prior to 1983	The aggregate length of set gillnets used by an individual may not exceed 150 fathoms. No more than two set gillnets may be operated by the individual holding the gear license. Set gillnet shall be operated in substantially a straight line. No more than 25 fathoms of each net may be used as a single hook. Seine webbing may be used as a lead on the shore end between high and low water marks. The inshore end of a set gillnet must be attached to the shore above the mean low water mark.
	No part of a set gillnet may be placed or operated within 900 feet of any part of another set gillnet.
1983	25 fathom of setnet may be used as a single hook, in any configuration.
1985	Joint venture set gillnet sites.
	Shoreward end of a set gillnet must be attached to the beach above the lowest tide of the day. Set gillnet attachment points must be 900 feet apart and cannot be attached inside closed waters.
	Seine webbing used as a lead may extend on the shoreward end of a set gillnet and may not extend more than 50 fathoms seaward of beach at low tide of day except for Moser/Olga Bay Section where seine webbing used from high tide mark seaward and no portion of the seine web may be in water deeper than five feet during the lowest tide of the day.
	Seines may not be used as a stationary trap.
1988	For Moser Bay set gillnets outside Bun Point, minimum lead length of 20 fathoms or seine webbing from high tide seaward no deeper than five feet at lowest tide of the day.
	No minimum distance between set gillnet gear in Olga Bay closed water openings. No running lines or buoys in water prior to openings in normally closed waters,
	Shoreward end of set gillnet attached to point of land or rock within five feet of the lowest tide of the day (also defined rock - naturally located).
1990	In the Alitak District distance from attachment point to set gillnet limited to legal lead distance for that gear location.
	Purse seine maximum depth limit of 325 meshes with mesh not over 7”.
	Set gillnets maximum depth limit of 125 meshes.
1995	Shoreward attachment point for Alitak set gillnet no more than 2.1’ below water surface at mean low water (Alitak Bay tide). If attachment point under water at any time it must be marked by permanent survey monument and certified as no more than 2.1’ below water surface by registered surveyor. Set gillnet may be attached no more than 2’ from monument and never deeper.

Table 12.-Commercial salmon harvest, by species and section, in the Alitak Bay District 2003.

Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
CAPE ALITAK SECTION (257-10,20)													
	5-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	6-Jun	7	7	67	1,292	3,337	19,207	0	0	0	0	9	73
	9-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	14-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	15-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	16-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	17-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	22-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	23-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	24-Jul	4	4	4	94	2,695	13,481	2	12	11,881	47,530	848	5,948
	25-Jul	8	8	10	209	4,172	23,915	24	214	34,051	102,179	670	5,693
	26-Jul	8	8	12	332	3,998	22,841	11	85	21,396	64,248	360	2,902
	27-Jul	9	9	6	159	2,638	15,229	125	911	20,069	62,923	354	2,822
	28-Jul	10	10	5	105	5,653	31,540	31	245	28,264	84,718	563	4,514
	29-Jul	6	6	0	0	2,250	11,248	18	126	8,632	25,298	196	1,615
	4-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	5-Aug	8	8	12	292	4,052	23,080	175	1,284	17,480	55,148	454	3,635
	6-Aug	6	7	6	152	3,969	23,503	76	579	13,120	39,830	486	3,685
	7-Aug	6	6	13	338	5,198	31,205	76	699	17,354	52,070	391	3,087
	8-Aug	10	11	20	501	7,848	47,074	109	1,030	29,078	87,453	539	4,339
	9-Aug	10	11	25	581	2,631	15,810	107	936	9,535	33,447	317	2,580
	13-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	14-Aug	7	7	6	193	5,141	28,341	467	3,292	9,764	34,214	222	1,804
	15-Aug	8	8	1	18	3,259	19,566	94	1,047	6,500	19,506	306	2,349
	17-Aug	7	7	2	80	1,835	11,576	322	1,814	8,568	35,276	181	1,317
	18-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	24-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	27-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	28-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	30-Aug	*	*	*	*	*	*	*	*	*	*	*	*

-Continued-

*=Confidential information

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Section (Stat Area	Date	Permits	Landings	CHINOOK Number	CHINOOK Pounds	SOCKEYE Number	SOCKEYE Pounds	COHO Number	COHO Pounds	PINK Number	PINK Pounds	CHUM Number	CHUM Pounds
CAPE ALITAK SECTION (Cont.)													
	4-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	Total	21	145	259	5,599	75,666	435,949	4,461	37,708	275,522	883,587	10,945	85,930
	Avg. Wt.				21.62		5.76		8.45		3.21		7.85
OUTER UPPER STATION SECTION (257-30)													
	11-Jul	11	12	0	0	293	1,559	0	0	1	3	0	0
	12-Jul	11	12	0	0	535	2,793	0	0	38	155	18	106
	13-Jul	6	6	0	0	344	1,831	1	9	12	42	9	76
	Total	12	30	0	0	1,172	6,183	1	9	51	200	27	182
	Avg. Wt.				0.00		5.28		9.00		3.92		6.74
OLGA BAY SECTION (257-40)													
	5-Jun	11	11	0	0	2,932	14,173	0	0	0	0	0	0
	6-Jun	12	13	0	0	2,532	12,268	0	0	0	0	0	0
	9-Jun	11	13	0	0	3,708	17,643	0	0	0	0	0	0
	10-Jun	10	10	0	0	809	3,827	0	0	0	0	2	11
	14-Jul	8	9	0	0	1,472	7,724	6	41	1,006	4,095	274	2,041
	15-Jul	7	7	0	0	686	3,677	3	25	799	3,057	225	1,698
	16-Jul	5	5	0	0	450	1,798	2	10	535	2,055	142	1,081
	17-Jul	6	7	0	0	131	607	0	0	602	2,375	302	2,250
	18-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	22-Jul	6	8	0	0	1,284	7,466	0	0	2,118	8,230	393	3,002
	23-Jul	5	5	0	0	369	1,846	0	0	1,212	4,913	192	1,476
	24-Jul	7	7	0	0	259	1,323	1	5	840	3,440	90	791
	25-Jul	5	7	0	0	164	857	3	22	280	1,076	54	427
	26-Jul	4	5	0	0	96	462	0	0	122	446	20	147
	27-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	28-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	29-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	4-Aug	4	5	1	14	1,749	10,177	5	36	616	2,370	72	595

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
OLGA BAY SECTION (Cont.)													
	5-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	6-Aug	5	5	0	0	443	2,445	6	35	634	2,814	34	330
	7-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	8-Aug	4	5	0	0	338	1,986	2	18	307	1,130	32	225
	9-Aug	4	4	0	0	367	2,063	4	34	194	835	18	142
	13-Aug	7	8	0	0	2,646	14,987	50	463	1,018	4,350	73	598
	14-Aug	5	7	0	0	4,553	25,441	61	574	1,069	4,579	129	977
	15-Aug	4	4	0	0	2,172	11,985	49	445	1,157	5,336	152	1,317
	16-Aug	5	6	0	0	2,593	14,751	17	162	963	4,079	61	498
	17-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	18-Aug	4	5	0	0	1,513	8,487	55	525	501	2,028	56	391
	19-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	20-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	23-Aug	4	4	0	0	1,055	6,051	22	243	34	145	20	151
	24-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	25-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	26-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	27-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	28-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	29-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	30-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	2-Sep	4	4	0	0	448	2,490	1	12	2	9	2	17
	3-Sep	4	5	0	0	714	4,042	25	245	2	9	8	63
	4-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	5-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	Total	30	218	2	51	40,619	218,996	686	6,843	17,036	69,582	2,771	21,394
	Avg. Wt.				25.50		5.39		9.98		4.08		7.72
ALITAK BAY SECTION (257-41)													
	5-Jun	7	7	0	0	1,304	6,348	0	0	0	0	0	0
	6-Jun	13	16	4	89	2,019	10,134	0	0	0	0	1	7

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Section (Stat Area	Date	Permits	Landings	CHINOOK Number	CHINOOK Pounds	SOCKEYE Number	SOCKEYE Pounds	COHO Number	COHO Pounds	PINK Number	PINK Pounds	CHUM Number	CHUM Pounds
ALITAK BAY SECTION (Cont.)													
	9-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	10-Jun	6	10	1	19	948	5,022	0	0	0	0	1	8
	14-Jul	6	6	0	0	1,157	6,833	0	0	397	1,507	70	563
	15-Jul	10	16	0	0	4,507	26,740	3	23	1,380	5,174	101	813
	16-Jul	9	11	0	0	1,265	7,012	11	62	686	2,473	50	357
	17-Jul	8	8	0	0	1,914	10,241	6	37	1,140	4,469	74	554
	18-Jul	8	12	0	0	1,561	8,659	4	32	992	3,657	57	451
	22-Jul	5	5	0	0	502	1,883	0	0	327	1,134	7	60
	23-Jul	8	13	0	0	1,536	8,627	10	76	1,744	6,453	104	800
	24-Jul	10	11	0	0	928	4,940	4	22	735	3,027	46	344
	25-Jul	8	11	0	0	2,274	11,962	10	86	2,429	9,603	94	678
	26-Jul	9	10	0	0	1,151	6,792	2	16	752	2,867	44	358
	27-Jul	9	16	0	0	2,358	13,148	3	18	1,779	6,757	83	526
	28-Jul	8	11	0	0	1,341	7,551	5	36	982	3,505	49	322
	29-Jul	6	6	0	0	708	4,025	7	58	494	1,799	23	165
	5-Aug	8	11	0	0	1,532	8,671	15	101	1,381	4,905	68	559
	6-Aug	7	9	0	0	1,351	7,458	10	69	1,067	3,933	73	531
	7-Aug	7	12	0	0	2,908	16,763	33	247	2,446	9,768	109	793
	8-Aug	8	11	0	0	2,394	13,851	33	282	1,798	6,596	80	634
	9-Aug	7	13	0	0	2,521	14,699	31	268	1,468	5,390	379	1,524
	13-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	14-Aug	6	11	0	0	3,512	20,818	33	329	1,966	7,956	87	698
	15-Aug	8	9	0	0	2,726	16,025	12	120	1,526	5,224	27	197
	16-Aug	7	10	0	0	4,974	29,006	22	231	1,766	6,536	56	417
	17-Aug	6	7	0	0	3,640	21,767	48	342	884	3,601	81	552
	18-Aug	8	15	0	0	5,457	31,522	88	707	742	2,994	101	717
	19-Aug	6	6	0	0	2,710	16,885	71	546	304	1,169	32	193
	20-Aug	5	6	0	0	2,839	15,979	87	880	297	1,112	42	277
	23-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	24-Aug	8	11	0	0	3,846	19,909	60	543	140	575	39	259
	25-Aug	7	7	0	0	2,007	11,981	33	281	33	142	46	306
	26-Aug	5	9	0	0	2,873	16,442	316	3,117	32	136	79	620

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Section (Stat Area	Date	Permits	Landings	CHINOOK Number	CHINOOK Pounds	SOCKEYE Number	SOCKEYE Pounds	COHO Number	COHO Pounds	PINK Number	PINK Pounds	CHUM Number	CHUM Pounds
ALITAK BAY SECTION (Cont.)													
	27-Aug	8	8	0	0	1,702	9,758	148	1,502	46	191	93	536
	28-Aug	8	12	0	0	2,093	11,840	168	1,846	85	355	65	481
	29-Aug	6	8	0	0	1,665	9,475	113	1,116	38	160	29	236
	30-Aug	7	8	0	0	1,307	7,376	217	1,824	32	132	32	225
	2-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	3-Sep	7	10	0	0	1,386	8,061	89	1,023	3	12	41	294
	4-Sep	5	6	0	0	682	3,831	66	661	0	0	12	94
	5-Sep	5	6	0	0	1,080	5,983	43	408	0	0	24	194
	Total	25	382	6	136	82,415	468,422	1,854	17,426	30,251	114,752	2,417	16,472
	Avg. Wt.				22.67		5.68		9.40		3.79		6.82
MOSER BAY SECTION (257-43)													
	5-Jun	8	8	0	0	832	4,088	0	0	0	0	0	0
	6-Jun	12	16	1	20	1,498	7,579	0	0	0	0	0	0
	9-Jun	8	8	0	0	1,097	5,511	0	0	3	11	0	0
	10-Jun	14	20	1	25	1,314	6,446	0	0	1	3	0	0
	14-Jul	7	7	0	0	1,557	8,368	5	44	709	2,993	90	634
	15-Jul	8	14	0	0	2,559	13,869	2	17	1,349	5,516	87	594
	16-Jul	10	10	0	0	1,784	9,509	0	0	1,377	5,576	74	521
	17-Jul	11	11	0	0	1,827	9,572	0	0	1,458	5,626	98	764
	18-Jul	11	13	0	0	2,392	11,717	9	48	2,404	9,478	100	732
	22-Jul	8	9	0	0	1,040	5,741	1	8	1,102	4,030	32	246
	23-Jul	10	14	0	0	1,373	7,361	2	13	2,221	8,575	62	510
	24-Jul	8	8	0	0	507	2,600	0	0	887	3,581	42	281
	25-Jul	10	11	0	0	1,139	6,164	3	21	1,239	5,080	39	314
	26-Jul	10	10	0	0	1,514	8,452	3	21	1,430	6,100	46	366
	27-Jul	10	11	0	0	1,657	9,126	0	0	1,329	5,544	67	414
	28-Jul	9	9	0	0	1,562	8,372	2	18	1,193	4,795	37	275
	29-Jul	7	8	0	0	1,329	6,762	2	20	962	3,948	50	364
	4-Aug	9	9	0	0	1,351	7,645	1	7	1,122	4,896	65	461
	5-Aug	10	12	0	0	2,486	14,272	8	58	2,152	8,223	72	566

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Section (Stat Area	Date	Permits	Landings	CHINOOK Number	CHINOOK Pounds	SOCKEYE Number	SOCKEYE Pounds	COHO Number	COHO Pounds	PINK Number	PINK Pounds	CHUM Number	CHUM Pounds
MOSER BAY SECTION (Cont.)													
	6-Aug	11	12	0	0	2,339	12,441	8	57	1,969	8,072	55	373
	7-Aug	11	15	0	0	4,915	26,373	22	164	3,656	14,691	93	661
	8-Aug	12	14	0	0	4,316	24,338	32	321	2,389	8,787	64	491
	9-Aug	13	18	0	0	4,074	23,093	42	413	2,640	9,909	49	402
	13-Aug	8	10	0	0	2,859	15,635	34	331	1,749	6,949	65	423
	14-Aug	12	13	0	0	4,565	25,493	66	642	2,502	10,240	40	302
	15-Aug	11	12	0	0	4,855	27,785	51	489	2,355	9,007	61	452
	16-Aug	11	16	0	0	7,470	42,727	75	733	1,830	7,075	52	397
	17-Aug	11	13	0	0	5,760	32,994	69	679	874	3,594	64	478
	18-Aug	9	13	0	0	5,447	31,314	89	882	504	2,067	55	409
	19-Aug	9	13	0	0	4,189	23,664	71	662	109	480	21	181
	20-Aug	11	12	0	0	3,032	17,231	117	1,149	590	2,510	19	155
	23-Aug	8	11	0	0	2,545	14,814	99	1,023	192	822	31	245
	24-Aug	10	18	0	0	4,871	27,647	186	1,954	236	989	40	285
	25-Aug	9	13	0	0	3,470	19,821	183	1,920	134	562	28	204
	26-Aug	9	12	0	0	2,252	12,759	144	1,413	161	697	45	266
	27-Aug	9	13	0	0	2,572	14,880	208	2,234	110	465	46	345
	28-Aug	9	12	0	0	1,269	7,373	156	1,714	82	326	27	210
	29-Aug	7	8	0	0	1,447	8,142	157	1,691	67	288	27	222
	30-Aug	6	6	0	0	723	3,874	39	429	14	57	4	32
	2-Sep	5	5	0	0	1,620	9,046	157	1,759	20	84	25	184
	3-Sep	5	7	0	0	1,238	7,082	89	954	10	43	21	163
	4-Sep	4	4	0	0	617	3,416	48	473	8	35	13	112
	5-Sep	4	4	0	0	478	2,587	35	359	10	44	12	99
	Total	29	482	2	45	105,741	587,683	2,215	22,720	43,149	171,768	1,918	14,133
	Avg. Wt.				22.50		5.56		10.26		3.98		7.37
HUMPY/DEADMAN SECTION (257-50,60,70)													
	14-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	15-Jul	8	8	6	134	8,784	54,315	49	386	11,432	34,414	93	782
	16-Jul	7	7	3	72	9,876	60,249	52	354	19,455	59,014	173	1,437

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Section (Stat Area	Date	Permits	Landings	CHINOOK Number	CHINOOK Pounds	SOCKEYE Number	SOCKEYE Pounds	COHO Number	COHO Pounds	PINK Number	PINK Pounds	CHUM Number	CHUM Pounds
HUMPY/DEADMAN SECTION (Cont.)													
	17-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	21-Jul	6	6	2	40	1,581	8,576	2	16	20,110	60,336	1,802	16,180
	22-Jul	6	6	6	117	2,047	12,289	6	58	19,043	57,134	563	4,523
	23-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	30-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	31-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	1-Aug	4	4	3	61	837	5,031	14	112	12,772	38,321	189	1,627
	5-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	6-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	11-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	13-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	18-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	19-Aug	4	4	0	0	753	4,682	43	238	1,721	7,704	1,760	10,670
	21-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	26-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	Total	15	62	29	595	35,789	217,458	1,375	7,876	131,813	423,733	13,788	86,047
	Avg. Wt.				20.52		6.08		5.73		3.21		6.24
ALITAK DISTRICT (257-10-70)													
	5-Jun	26	27	2	46	5,182	25,189	0	0	0	0	0	0
	6-Jun	43	51	72	1,401	9,386	49,188	0	0	0	0	10	80
	9-Jun	24	26	58	1,014	7,189	36,140	0	0	91	281	6	62
	10-Jun	28	39	2	44	3,071	15,295	0	0	1	3	3	19
	11-Jul	11	12	0	0	293	1,559	0	0	1	3	0	0
	12-Jul	11	12	0	0	535	2,793	0	0	38	155	18	106
	13-Jul	6	6	0	0	344	1,831	1	9	12	42	9	76
	14-Jul	24	25	0	0	8,084	47,397	38	263	4,420	15,798	529	3,972
	15-Jul	35	47	7	152	19,416	116,330	120	858	19,049	60,739	4,518	35,714
	16-Jul	32	34	5	112	13,990	81,955	105	709	24,039	76,079	498	3,869
	17-Jul	27	28	10	185	5,939	31,457	111	648	8,946	32,868	742	5,599
	18-Jul	21	26	0	0	4,061	20,984	13	80	4,192	16,416	284	2,123

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Section (Stat Area	Date	Permits	Landings	CHINOOK Number	CHINOOK Pounds	SOCKEYE Number	SOCKEYE Pounds	COHO Number	COHO Pounds	PINK Number	PINK Pounds	CHUM Number	CHUM Pounds
ALITAK DISTRICT (Cont.)													
	21-Jul	6	6	2	40	1,581	8,576	2	16	20,110	60,336	1,802	16,180
	22-Jul	24	28	6	117	5,146	29,017	10	104	26,046	80,896	1,045	8,231
	23-Jul	27	35	0	0	5,272	27,811	30	205	19,465	77,090	1,610	11,571
	24-Jul	28	30	4	94	4,389	22,344	7	39	14,343	57,578	1,026	7,364
	25-Jul	30	36	10	209	7,749	42,898	40	343	37,999	117,938	857	7,112
	26-Jul	30	32	12	332	6,759	38,547	16	122	23,700	73,661	470	3,773
	27-Jul	30	39	6	159	6,752	38,042	128	929	23,281	75,702	525	3,904
	28-Jul	29	32	5	105	8,763	48,596	38	299	30,765	93,823	668	5,259
	29-Jul	22	23	0	0	4,353	22,407	27	204	10,212	31,582	292	2,317
	30-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	31-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	1-Aug	4	4	3	61	837	5,031	14	112	12,772	38,321	189	1,627
	4-Aug	16	17	3	54	3,278	18,887	22	211	11,377	36,185	196	1,532
	5-Aug	29	35	13	329	9,340	53,292	204	1,509	22,691	74,271	724	5,756
	6-Aug	29	33	6	152	8,118	45,947	100	740	19,962	64,167	662	5,030
	7-Aug	27	36	13	338	13,469	76,667	138	1,166	23,852	78,273	645	4,962
	8-Aug	33	40	20	501	14,896	87,249	176	1,651	33,572	103,966	715	5,689
	9-Aug	33	46	25	581	9,593	55,665	184	1,651	13,837	49,581	763	4,648
	11-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	13-Aug	21	24	1	15	9,086	53,482	286	1,675	13,378	53,742	518	4,415
	14-Aug	30	38	6	193	17,771	100,093	627	4,837	15,301	56,989	478	3,781
	15-Aug	31	33	1	18	13,012	75,361	206	2,101	11,538	39,073	546	4,315
	16-Aug	21	32	0	0	15,037	86,484	114	1,126	4,559	17,690	169	1,312
	17-Aug	25	29	2	80	11,977	70,618	441	2,851	10,431	42,893	335	2,425
	18-Aug	25	39	1	25	12,538	72,057	280	2,444	8,778	36,535	7,007	34,015
	19-Aug	21	27	0	0	8,267	48,745	198	1,580	2,347	10,287	1,842	11,302
	20-Aug	18	21	0	0	5,999	33,934	210	2,089	970	3,965	63	448
	21-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	23-Aug	14	18	0	0	4,377	25,515	151	1,545	226	967	54	419
	24-Aug	20	33	0	0	10,494	58,524	711	5,243	847	3,544	138	960
	25-Aug	18	22	0	0	6,199	35,874	261	2,689	173	728	88	614
	26-Aug	17	25	0	0	6,217	35,861	894	7,130	967	3,927	403	2,926

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
ALITAK DISTRICT (Cont.)													
	27-Aug	20	24	0	0	5,629	31,714	1,018	10,389	1,369	5,508	213	1,479
	28-Aug	22	29	2	41	4,381	25,004	799	8,292	795	3,205	175	1,279
	29-Aug	15	19	0	0	3,467	19,570	322	3,327	105	448	62	507
	30-Aug	17	18	0	0	3,986	22,402	1,175	11,591	597	2,408	114	851
	2-Sep	10	11	0	0	2,369	13,272	172	1,913	22	93	31	229
	3-Sep	16	22	0	0	3,338	19,185	203	2,222	15	64	70	520
	4-Sep	13	14	0	0	1,658	9,324	339	3,381	8	35	51	419
	5-Sep	12	13	0	0	1,625	8,912	95	953	10	44	36	293
	Total	87	1,308	298	6,426	341,402	1,934,691	10,592	92,582	497,822	1,663,622	31,866	224,158
	Avg. Wt.				21.56		5.67		8.74		3.34		7.03

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Table 13.-Salmon harvest, by gear and species, for the Alitak Bay District of the Kodiak Management Area, 2003.

			CHINOOK		SOCKEYE		COHO		PINK		CHUM	
Gear	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Early Run 6/1 - 7/15												
Purse Seine Total	15	24	133	2,476	21,223	128,251	139	971	17,917	54,465	4,215	33,478
Avg. Wt.				18.62		6.04		6.99		3.04		7.94
Avg. Price				$0.60		$0.53		$0.00		$0.06		$0.05
Set Gillnet Total	50	221	8	181	32,277	167,471	20	159	5,695	22,556	878	6,551
Avg. Wt.				22.63		5.19		7.95		3.96		7.46
Avg. Price				$0.00		$0.53		$0.00		$0.06		$0.06
Early Run Total	65	245	141	2,657	53,500	295,722	159	1,130	23,612	77,021	5,093	40,029
Avg. Wt.				18.84		5.53		7.11		3.26		7.86
Avg. Price				$0.60		$0.53		$0.00		$0.06		$0.05
Late Run 7/16 - 10/31												
Purse Seine Total	21	183	155	3,718	90,232	525,156	5,697	44,613	389,418	1,252,855	20,518	138,499
Avg. Wt.				23.99		5.82		7.83		3.22		6.75
Avg. Price				$0.59		$0.53		$0.02		$0.06		$0.05
Set Gillnet Total	53	880	2	51	197,670	1,113,813	4,736	46,839	84,792	333,746	6,255	45,630
Avg. Wt.				25.50		5.63		9.89		3.94		7.29
Avg. Price				$0.00		$0.53		$0.02		$0.06		$0.07
Late Run Total	74	1,063	157	3,769	287,902	1,638,969	10,433	91,452	474,210	1,586,601	26,773	184,129
Avg. Wt.				23.91		5.71		8.75		3.34		7.03
Avg. Price				$0.59		$0.53		$0.02		$0.06		$0.05

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			CHINOOK		SOCKEYE		COHO		PINK		CHUM	
Gear	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
SEASON TOTAL 6/1 - 10/31												
Purse Seine Total	22	207	288	6,194	111,455	653,407	5,836	45,584	407,335	1,307,320	24,733	171,977
Avg. Wt.				21.51		5.86		7.81		3.21		6.95
Avg. Price				$0.59		$0.53		$0.01		$0.06		$0.05
Set Gillnet Total	65	1,101	10	232	229,947	1,281,284	4,756	46,998	90,487	356,302	7,133	52,181
Avg. Wt.				23.20		5.57		9.88		3.94		7.32
Avg. Price				$0.00		$0.53		$0.02		$0.06		$0.07
Entire Season Total	87	1,308	298	6,426	341,402	1,934,691	10,592	92,582	497,822	1,663,622	31,866	224,158
Avg. Wt.				21.56		5.67		8.74		3.34		7.03
Avg. Price				$0.59		$0.53		$0.02		$0.06		$0.05

Table 14.-Commercial salmon harvest, by species, with percent harvest by gear type, in the Alitak Bay District, of the Kodiak Management Area, 1954 to 2004.

	CHINOOK[b]			SOCKEYE[b]			COHO[b]			PINK[b]			CHUM[b]			Total[b]		
YEAR	Number	GN[c]%	PS[d]%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%
1954	3	33%	67%	44,448	94%	6%	1,118	93%	7%	490,038	47%	53%	55,788	19%	81%	591,395	48%	52%
1955	38	74%	26%	56,058	89%	11%	410	68%	32%	1,656,363	15%	85%	100,031	17%	83%	1,812,900	18%	82%
1956	10	10%	90%	62,673	77%	23%	904	25%	75%	335,669	30%	70%	55,967	11%	89%	455,223	34%	66%
1957	7	14%	86%	15,365	88%	12%	378	31%	69%	410,620	12%	88%	49,661	27%	73%	476,031	16%	84%
1958	11	0%	100%	30,542	79%	21%	488	33%	67%	770,851	29%	71%	81,255	8%	92%	883,147	29%	71%
1959	11	18%	82%	24,888	59%	41%	378	30%	70%	544,592	23%	77%	70,589	8%	92%	640,458	23%	77%
1960	29	17%	83%	68,472	77%	23%	2,129	77%	23%	1,561,476	25%	75%	102,432	13%	87%	1,734,538	26%	74%
1961	23	4%	96%	145,781	67%	33%	1,470	49%	51%	1,589,027	14%	86%	60,600	18%	82%	1,796,901	19%	81%
1962	5	20%	80%	124,496	75%	25%	1,792	79%	21%	1,886,769	23%	77%	54,115	26%	74%	2,067,177	26%	74%
1963	30	7%	93%	54,992	60%	40%	1,202	31%	69%	1,522,856	14%	86%	42,836	10%	90%	1,621,916	15%	85%
1964	29	10%	90%	50,167	72%	28%	2,324	76%	24%	1,408,731	46%	54%	34,460	13%	87%	1,495,711	46%	54%
1965	16	6%	94%	68,876	68%	32%	688	16%	84%	1,129,185	11%	89%	20,604	17%	83%	1,219,369	14%	86%
1966	2	50%	50%	70,526	91%	9%	585	78%	22%	429,204	40%	60%	33,153	18%	82%	533,470	46%	54%
1967	6	0%	100%	14,227	82%	18%	50	0%	100%	84,918	66%	34%	17,377	55%	45%	116,578	66%	34%
1968	16	44%	56%	40,662	86%	14%	3,701	79%	21%	1,046,221	21%	79%	29,450	35%	65%	1,120,050	24%	76%
1969	27	37%	63%	98,722	54%	46%	7,240	7%	93%	3,768,917	8%	92%	45,134	15%	85%	3,920,040	10%	90%
1970	8	50%	50%	81,528	76%	24%	4,540	73%	27%	949,488	27%	73%	93,306	15%	85%	1,128,870	30%	70%
1971	33	30%	70%	124,480	55%	45%	2,261	66%	34%	1,066,180	10%	90%	191,437	7%	93%	1,384,391	14%	86%
1972	15	40%	60%	22,127	70%	30%	1,270	51%	49%	187,154	17%	83%	93,236	6%	94%	303,802	18%	82%
1973	4	50%	50%	10,338	62%	38%	125	70%	30%	49,932	35%	65%	24,408	19%	81%	84,807	34%	66%
1974	19	16%	84%	66,605	52%	48%	1,284	49%	51%	363,389	9%	91%	22,220	9%	91%	453,517	16%	84%
1975	0	0%	0%	16,515	72%	28%	1,627	3%	97%	235,720	11%	89%	2,855	40%	60%	256,717	15%	85%
1976	18	28%	72%	96,668	71%	29%	3,518	53%	47%	1,804,003	26%	74%	66,183	14%	86%	1,970,390	28%	72%
1977	20	40%	60%	78,805	69%	31%	1,343	57%	43%	961,673	23%	77%	70,978	12%	88%	1,112,819	26%	74%
1978	694	58%	42%	218,165	59%	41%	2,788	52%	48%	4,191,756	12%	88%	72,166	16%	84%	4,485,569	14%	86%
1979	108	24%	76%	317,906	50%	50%	15,007	54%	46%	1,664,249	7%	93%	22,454	32%	68%	2,019,724	14%	86%
1980	34	21%	79%	208,200	83%	17%	12,972	34%	66%	2,033,236	12%	88%	67,471	12%	88%	2,321,913	18%	82%
1981	45	13%	87%	346,073	74%	26%	17,011	55%	45%	2,073,629	13%	87%	61,513	37%	63%	2,498,271	22%	78%
1982	43	30%	70%	476,862	86%	14%	29,378	40%	60%	519,880	27%	73%	101,543	22%	78%	1,127,706	52%	48%
1983	159	12%	88%	460,087	59%	41%	28,953	45%	55%	1,318,526	7%	93%	107,786	21%	79%	1,915,511	21%	79%
1984	290	11%	89%	382,729	67%	33%	25,299	51%	49%	433,806	25%	75%	84,924	24%	76%	927,048	43%	57%
1985	199	21%	79%	703,186	63%	37%	43,914	48%	52%	1,057,912	14%	86%	84,760	33%	67%	1,889,971	34%	66%
1986	134	17%	83%	1,247,976	58%	42%	30,548	44%	56%	728,205	17%	83%	75,643	16%	84%	2,082,506	42%	58%
1987	105	11%	89%	515,410	63%	37%	17,959	53%	47%	916,875	9%	91%	59,723	37%	63%	1,510,072	29%	71%
1988	624	11%	89%	1,123,474	58%	42%	30,001	38%	62%	385,735	35%	65%	93,391	35%	65%	1,633,225	51%	49%

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	CHINOOK[b]			SOCKEYE[b]			COHO[b]			PINK[b]			CHUM[b]			Total[b]		
YEAR	Number	GN[c]%	PS[d]%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%
1989	106	100%	0%	1,284,174	100%	0%	1,613	100%	0%	182,217	100%	0%	19,911	100%	0%	1,488,021	100%	0%
1990	807	17%	83%	1,435,461	52%	48%	18,176	65%	35%	144,927	13%	87%	50,304	36%	64%	1,649,675	48%	52%
1991	821	10%	90%	2,062,718	58%	42%	24,601	52%	48%	2,373,516	5%	95%	83,003	24%	76%	4,544,659	30%	70%
1992	1,056	9%	91%	525,158	53%	47%	24,548	55%	45%	59,268	28%	72%	34,580	43%	57%	644,610	50%	50%
1993	1,828	10%	90%	998,751	53%	47%	19,271	40%	60%	3,465,473	6%	94%	53,636	27%	73%	4,538,959	17%	83%
1994	1,946	8%	92%	931,328	54%	46%	32,312	44%	56%	1,120,832	9%	91%	112,191	18%	82%	2,198,609	29%	71%
1995	848	15%	85%	1,674,169	47%	53%	19,000	47%	53%	7,065,939	6%	94%	105,224	17%	83%	8,865,180	14%	86%
1996	569	18%	82%	1,458,215	54%	46%	35,529	47%	53%	553,424	39%	61%	65,250	29%	71%	2,112,987	49%	51%
1997	291	31%	69%	685,635	59%	41%	33,549	41%	59%	955,253	15%	85%	85,710	34%	66%	1,760,438	33%	67%
1998	1,487	6%	94%	1,003,245	57%	43%	32,185	47%	53%	1,704,581	26%	74%	40,554	40%	60%	2,782,052	37%	63%
1999	271	12%	88%	633,579	70%	30%	13,126	74%	26%	1,353,933	12%	88%	79,000	16%	84%	2,079,909	30%	70%
2000	433	10%	90%	558,674	57%	43%	10,131	51%	49%	243,161	30%	70%	67,189	17%	83%	879,588	47%	53%
2001	651	11%	89%	461,785	64%	36%	2,471	24%	76%	1,439,930	7%	93%	52,521	21%	79%	1,957,358	26%	74%
2002	13	0%	100%	14,575	0%	100%	1,060	0%	100%	1,078,120	0%	100%	10,164	0%	100%	1,103,932	0%	100%
2003	298	3%	97%	341,402	67%	33%	10,592	45%	55%	497,822	18%	82%	31,866	22%	78%	881,980	38%	62%
2004	1,316	4%	96%	1,156,539	61%	39%	15,897	54%	46%	1,420,188	24%	76%	38,348	40%	60%	2,632,288	41%	59%
AVERAGES:																		
1954-2003 [a]	288	20%	78%	413,321	66%	34%	11,657	48%	52%	1,257,816	20%	80%	63,687	22%	78%	1,746,769	29%	71%
1994-2003	681	11%	89%	776,261	53%	47%	18,996	42%	58%	1,601,300	16%	84%	64,967	21%	79%	2,462,203	30%	70%

[a] 1989 is not included in averages because of fishery restrictions and unusual fishing patterns due to the M/V Exxon Valdez oil spill.

[b] ADF&G test fish harvest is not included.

[c] Gillnet.

[d] Purse seine.

Table 15.-Alaska Board of Fisheries approved allocative guidelines for the commercial harvest of sockeye salmon with harvest percentages by gear type and section for the Alitak Bay District.

Year	Section	Permits	Allocative Guidelines	Harvest	% Allocative Harvest
2003	Cape Alitak	21	38 % to 44 %	75,666	24.9%
	Alitak Bay	25	18 % to 24 %	82,415	27.1%
	Moser Bay	29	16 % to 22 %	105,741	34.7%
	Olga Bay	30	16 % to 22 %	40,619	13.3%
	Terminal Areas[a]	12	N/A	1,172	
	Humpy/Deadman	15	N/A	35,789	
	Total Harvest			341,402	100.0%
2004	Cape Alitak	31	38 % to 44 %	405,609	36.8%
	Alitak Bay	35	18 % to 24 %	286,847	26.0%
	Moser Bay	39	16 % to 22 %	275,517	25.0%
	Olga Bay	32	16 % to 22 %	134,095	12.2%
	Terminal Areas[a]	19	N/A	11,952	
	Humpy/Deadman	18	N/A	42,519	
	Total Harvest			1,156,539	100.0%

[a] Includes Inner and Outer Upper Station, Inner and Outer Akalura, and Dog Salmon Flats Sections

Table 16.-Commercial salmon harvest, by species and section, in the Alitak Bay District 2004.

Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
CAPE ALITAK SECTION (257-10,20)													
	6-Jun	9	9	110	2,003	8,378	43,199	0	0	2	14	312	3,178
	7-Jun	4	5	39	633	4,021	20,829	0	0	0	0	185	1,769
	8-Jun	9	9	62	1,044	10,071	50,359	0	0	47	95	272	2,457
	9-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	10-Jun	11	11	35	591	10,837	49,951	0	0	0	0	150	1,022
	11-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	12-Jun	6	7	39	773	12,878	64,177	0	0	4	10	95	856
	13-Jun	16	16	83	1,460	11,747	58,318	0	0	0	0	99	910
	16-Jun	14	14	42	749	9,614	44,466	0	0	22	60	285	2,227
	17-Jun	4	6	21	464	4,862	23,381	0	0	8	25	195	1,287
	18-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	19-Jun	13	13	33	575	15,655	73,917	0	0	15	51	610	4,410
	20-Jun	9	9	53	998	13,729	69,522	0	0	32	88	414	3,062
	21-Jun	6	8	12	258	6,099	32,311	0	0	1	3	249	1,541
	22-Jun	5	5	14	281	6,377	28,118	0	0	19	68	285	1,874
	23-Jun	9	9	49	747	11,737	50,824	0	0	97	287	761	5,356
	24-Jun	10	10	24	442	12,475	53,669	0	0	131	406	516	3,628
	25-Jun	10	10	27	475	13,186	56,827	0	0	115	305	467	3,282
	26-Jun	4	4	4	58	3,805	16,372	0	0	6	17	119	850
	27-Jun	12	12	15	209	10,062	43,899	0	0	58	205	358	2,467
	28-Jun	4	4	5	66	4,519	20,426	0	0	37	75	210	1,525
	29-Jun	12	12	10	193	15,283	70,796	2	10	203	411	578	3,994
	30-Jun	4	4	3	55	4,207	20,491	0	0	77	213	174	1,334
	1-Jul	8	8	9	234	11,377	58,304	1	8	205	684	466	3,618
	2-Jul	8	9	15	222	5,888	29,505	2	16	247	864	402	3,062
	6-Jul	4	4	3	50	1,724	8,485	5	82	156	475	128	996
	7-Jul	4	4	7	124	1,476	7,384	2	14	1,572	4,768	87	699
	8-Jul	6	8	40	863	6,664	33,345	34	243	3,310	9,926	633	4,387
	9-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	10-Jul	9	11	35	737	11,579	64,571	46	275	5,535	16,614	605	4,742
	11-Jul	4	6	22	473	4,956	28,133	10	70	2,539	7,662	209	1,686
	12-Jul	5	5	1	26	3,821	20,176	5	40	1,971	5,797	195	1,404

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
CAPE ALITAK SECTION (Cont.)													
	13-Jul	4	4	1	17	4,184	21,648	4	36	2,496	7,472	267	2,051
	16-Jul	9	9	6	136	9,566	45,635	290	2,059	18,840	57,762	808	6,390
	17-Jul	5	5	7	127	4,106	19,557	10	69	11,381	34,185	371	2,978
	18-Jul	9	11	17	358	8,804	44,115	54	390	24,045	72,633	577	4,487
	19-Jul	6	6	8	220	3,924	19,745	923	2,976	7,340	22,689	248	1,988
	20-Jul	8	8	20	498	3,433	17,176	66	453	8,729	26,196	371	2,045
	21-Jul	11	11	21	488	3,511	15,934	208	1,178	12,187	36,873	572	4,552
	22-Jul	8	8	3	58	2,235	11,092	21	162	5,230	15,698	218	1,666
	23-Jul	10	11	8	205	3,549	18,551	12	85	9,872	29,985	262	1,990
	26-Jul	9	9	12	214	3,016	13,853	20	169	25,844	94,757	400	2,683
	27-Jul	9	12	11	237	8,556	43,902	71	569	67,835	231,842	756	5,755
	28-Jul	8	8	31	569	6,901	39,539	71	570	56,225	173,962	525	3,761
	29-Jul	6	8	26	657	4,915	25,921	27	221	45,901	161,502	383	3,031
	30-Jul	9	13	44	895	6,797	35,720	173	1,362	51,578	192,423	429	3,443
	31-Jul	11	12	27	748	2,495	12,639	84	705	16,183	59,980	228	1,676
	1-Aug	4	4	22	522	2,886	14,939	141	1,128	16,046	70,726	153	1,265
	5-Aug	10	10	0	0	1,629	8,878	69	567	14,776	54,285	60	504
	6-Aug	14	16	6	130	11,230	52,455	164	1,577	68,303	216,485	186	1,465
	7-Aug	11	11	16	390	7,744	35,844	71	747	57,951	184,859	123	996
	8-Aug	10	11	3	63	6,618	30,662	35	318	57,957	183,426	97	794
	9-Aug	11	12	2	45	5,607	25,647	68	698	35,458	112,807	94	722
	10-Aug	11	13	11	261	9,864	47,703	87	883	61,474	200,650	134	1,097
	11-Aug	12	13	13	237	8,604	40,754	218	2,125	60,752	203,673	135	1,017
	12-Aug	9	9	6	93	4,883	22,613	136	1,155	46,363	146,794	100	747
	15-Aug	9	9	0	0	758	3,716	46	461	9,606	28,824	33	237
	16-Aug	8	8	7	140	3,916	19,631	170	1,902	37,091	111,281	161	1,151
	17-Aug	7	7	10	191	4,930	25,261	201	1,843	46,461	146,946	205	1,630
	18-Aug	10	11	4	71	3,600	18,929	135	1,430	13,276	39,829	68	482
	26-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	27-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	29-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	31-Aug	4	4	2	37	3,170	17,443	636	5,424	6,062	21,223	94	711

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
CAPE ALITAK SECTION (Cont.)													
	1-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	5-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	6-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	31	525	1,212	23,057	405,609	1,977,933	6,472	49,665	925,077	3,029,120	17,596	132,719
	Avg. Wt.				18.99		4.88		7.67		3.27		7.54
OUTER UPPER STATION SECTION (257-30)													
	6/18/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/19/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/20/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/22/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/23/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/24/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/25/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/26/2004	*	*	*	*	*	*	*	*	*	*	*	*
	6/27/2004	*	*	*	*	*	*	*	*	*	*	*	*
	7/3/2004	*	*	*	*	*	*	*	*	*	*	*	*
	7/4/2004	*	*	*	*	*	*	*	*	*	*	*	*
	7/5/2004	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	4	26	0	0	2,147	8,242	0	0	0	0	0	0
	Avg. Wt.				0.00		3.84		0.00		0.00		0.00
OLGA BAY SECTION (257-40)													
	5-Jun	10	10	0	0	9,495	45,036	0	0	0	0	2	16
	6-Jun	10	13	2	23	6,619	30,704	0	0	0	0	2	14
	7-Jun	11	14	0	0	1,617	7,497	0	0	0	0	0	0
	8-Jun	10	10	0	0	1,314	6,105	0	0	0	0	2	15
	9-Jun	10	10	0	0	776	3,777	0	0	0	0	0	0
	10-Jun	9	9	1	15	3,126	14,886	0	0	0	0	4	31
	11-Jun	7	8	0	0	3,645	17,238	0	0	0	0	5	33
	12-Jun	8	12	0	0	3,146	14,496	0	0	0	0	3	26
	13-Jun	9	9	1	13	1,089	5,264	0	0	0	0	8	60
	16-Jun	12	13	1	12	9,610	45,895	0	0	0	0	50	424
	17-Jun	12	13	0	0	7,079	33,668	0	0	0	0	37	286

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
OLGA BAY SECTION (Cont.)													
	18-Jun	9	9	2	44	2,120	9,883	0	0	0	0	22	175
	19-Jun	9	10	0	0	1,187	5,636	0	0	0	0	39	333
	20-Jun	11	12	0	0	1,785	8,611	0	0	0	0	44	351
	21-Jun	11	14	1	20	1,241	5,791	0	0	0	0	27	226
	22-Jun	7	7	1	5	581	2,794	0	0	0	0	21	177
	23-Jun	8	8	0	0	552	2,706	0	0	0	0	26	211
	24-Jun	10	10	0	0	1,245	6,639	0	0	0	0	45	380
	25-Jun	8	8	0	0	788	3,828	0	0	1	4	47	414
	26-Jun	10	11	2	31	1,091	5,109	0	0	0	0	40	333
	27-Jun	10	11	2	36	978	4,461	0	0	0	0	34	307
	28-Jun	11	11	0	0	757	3,594	0	0	0	0	58	486
	29-Jun	6	7	0	0	243	1,139	0	0	1	4	48	431
	30-Jun	10	10	0	0	467	2,295	0	0	0	0	39	320
	1-Jul	9	9	0	0	754	3,772	0	0	0	0	70	554
	2-Jul	10	12	0	0	1,169	5,843	1	6	2	6	61	507
	6-Jul	15	23	0	0	6,399	31,330	0	0	14	53	288	2,341
	7-Jul	11	14	0	0	1,587	7,720	27	129	3	9	104	814
	8-Jul	13	21	0	0	1,406	6,840	0	0	4	13	201	1,704
	9-Jul	12	13	0	0	599	2,865	0	0	3	13	171	1,457
	10-Jul	11	11	0	0	266	1,248	0	0	5	20	44	380
	11-Jul	11	11	0	0	440	2,084	27	131	6	21	82	725
	12-Jul	10	10	0	0	309	1,565	0	0	10	51	85	682
	13-Jul	7	7	0	0	191	882	0	0	8	27	111	899
	16-Jul	12	24	0	0	10,222	52,385	0	0	525	2,182	521	4,259
	17-Jul	13	19	0	0	3,767	19,051	0	0	295	1,177	351	2,653
	18-Jul	10	11	0	0	841	4,206	0	0	45	172	11	94
	19-Jul	10	10	0	0	531	2,697	0	0	90	353	70	547
	20-Jul	10	10	0	0	473	2,477	1	8	181	656	110	949
	21-Jul	9	12	0	0	826	3,643	0	0	178	725	64	492
	22-Jul	8	10	0	0	565	3,173	0	0	236	887	37	290
	23-Jul	8	8	0	0	339	1,757	0	0	138	605	23	207
	26-Jul	10	12	0	0	2,706	14,485	0	0	1,769	7,235	27	193

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
OLGA BAY SECTION (Cont.)													
	27-Jul	9	10	0	0	1,573	8,330	0	0	1,295	5,227	61	496
	28-Jul	11	22	0	0	905	5,236	0	0	1,039	4,018	51	409
	29-Jul	9	14	0	0	554	2,889	0	0	1,099	4,449	40	335
	30-Jul	10	15	0	0	896	5,055	0	0	1,769	7,222	41	294
	31-Jul	9	9	0	0	796	4,270	0	0	2,070	8,568	21	167
	1-Aug	9	10	0	0	1,169	6,261	0	0	2,862	11,202	27	213
	2-Aug	7	9	0	0	1,184	6,109	1	6	1,780	7,120	16	114
	5-Aug	10	15	0	0	5,058	29,701	399	2,310	14,078	56,381	94	759
	6-Aug	10	16	0	0	3,562	18,844	7	65	7,583	30,487	44	335
	7-Aug	10	17	1	4	1,563	8,358	6	28	5,467	21,532	41	320
	8-Aug	9	9	0	0	1,532	7,674	12	87	7,771	29,875	60	490
	9-Aug	10	10	0	0	568	3,080	6	41	4,038	15,419	31	247
	10-Aug	7	9	0	0	699	3,872	9	63	2,985	12,011	30	253
	11-Aug	7	9	0	0	519	2,925	8	81	3,303	13,050	30	248
	12-Aug	8	9	0	0	272	1,415	17	119	1,224	4,834	16	136
	15-Aug	11	22	0	0	3,738	20,591	52	457	7,008	27,872	74	606
	16-Aug	9	14	0	0	1,284	6,876	33	277	3,758	14,770	46	400
	17-Aug	9	9	0	0	497	2,643	19	165	2,858	11,170	49	396
	18-Aug	8	10	0	0	725	4,070	26	220	2,533	9,682	19	152
	26-Aug	10	11	0	0	1,902	10,425	151	1,484	1,510	6,103	63	551
	27-Aug	9	11	0	0	547	3,245	136	1,389	1,128	4,611	132	1,066
	28-Aug	5	5	0	0	496	2,626	56	560	1,328	5,260	43	347
	29-Aug	6	7	0	0	1,780	9,302	120	1,151	1,297	5,229	38	290
	30-Aug	4	5	0	0	1,142	6,347	92	817	1,040	4,187	36	276
	31-Aug	4	5	0	0	1,316	7,051	92	876	828	3,159	42	319
	1-Sep	5	7	0	0	1,078	6,132	50	511	460	1,921	33	287
	2-Sep	4	4	0	0	715	3,749	77	724	112	451	39	295
	3-Sep	4	5	0	0	867	4,654	65	681	90	380	29	204
	4-Sep	5	5	0	0	749	4,135	64	589	213	815	17	138
	5-Sep	4	5	0	0	774	4,156	74	705	218	824	37	289
	6-Sep	4	5	0	0	747	4,121	43	388	72	358	16	125
	7-Sep	5	6	0	0	448	2,560	73	750	74	294	13	101

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
OLGA BAY SECTION (Cont.)													
	8-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	9-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	10-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	11-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	12-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	32	821	14	203	134,095	674,639	1,768	15,045	86,408	342,710	4,363	35,454
	Avg. Wt.				12.26		5.03		8.51		3.97		8.13
ALITAK BAY SECTION (257-41)													
	5-Jun	13	13	1	25	2,908	13,924	0	0	0	0	0	0
	6-Jun	10	18	0	0	3,431	17,038	0	0	0	0	0	0
	7-Jun	10	16	0	0	2,784	13,849	0	0	0	0	0	0
	8-Jun	12	17	2	35	3,621	17,196	0	0	0	0	2	18
	9-Jun	12	19	0	0	4,347	20,241	0	0	0	0	3	23
	10-Jun	14	20	0	0	6,619	32,307	0	0	0	0	4	34
	11-Jun	11	15	0	0	4,428	22,132	0	0	0	0	6	51
	12-Jun	13	19	0	0	4,550	22,548	0	0	0	0	5	36
	13-Jun	14	21	1	34	3,754	18,889	0	0	0	0	4	32
	16-Jun	9	10	2	42	3,369	17,804	0	0	0	0	4	34
	17-Jun	14	17	5	87	4,748	24,802	0	0	0	0	16	127
	18-Jun	14	19	3	55	7,967	39,479	0	0	1	4	49	430
	19-Jun	14	25	0	0	4,462	22,606	0	0	3	9	73	594
	20-Jun	16	23	1	4	4,742	23,096	0	0	0	0	60	455
	21-Jun	13	19	0	0	5,130	25,307	1	6	0	0	53	427
	22-Jun	14	24	0	0	5,797	28,609	0	0	0	0	67	504
	23-Jun	14	19	0	0	3,165	15,813	0	0	1	3	66	520
	24-Jun	16	22	2	50	5,470	27,403	0	0	2	6	79	624
	25-Jun	16	32	0	0	6,124	32,093	0	0	9	27	83	642
	26-Jun	17	25	1	24	4,173	21,476	0	0	5	16	105	834
	27-Jun	17	25	0	0	2,795	14,246	0	0	4	12	64	518
	28-Jun	16	27	0	0	8,281	42,161	4	22	16	52	117	1,002
	29-Jun	16	25	0	0	6,527	33,571	0	0	27	85	123	1,056
	30-Jun	16	26	0	0	6,501	33,967	3	21	48	171	130	1,036

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
ALITAK BAY SECTION (Cont.)													
	1-Jul	16	22	0	0	6,935	35,351	4	21	56	197	182	1,519
	2-Jul	14	24	0	0	5,942	31,156	4	28	30	110	155	1,309
	6-Jul	4	4	0	0	896	4,576	3	17	23	83	34	281
	7-Jul	12	19	0	0	4,058	21,118	153	810	181	663	192	1,519
	8-Jul	14	22	0	0	5,001	26,124	7	43	222	758	184	1,470
	9-Jul	13	21	0	0	4,073	21,302	6	34	196	727	174	1,389
	10-Jul	15	27	0	0	5,879	31,137	11	90	260	953	199	1,570
	11-Jul	16	25	0	0	5,668	28,363	17	124	314	1,012	169	1,527
	12-Jul	16	25	0	0	5,306	28,276	14	100	292	1,185	146	1,073
	13-Jul	13	19	0	0	4,030	21,880	16	90	372	1,485	139	924
	16-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	17-Jul	14	26	0	0	5,947	31,264	9	55	1,587	5,459	176	1,241
	18-Jul	14	22	1	26	2,928	15,307	7	42	906	3,517	96	695
	19-Jul	13	19	0	0	2,598	13,662	5	38	1,019	4,120	128	944
	20-Jul	14	20	0	0	3,486	18,565	12	97	1,378	5,410	114	884
	21-Jul	13	21	0	0	3,755	19,631	7	48	1,655	5,952	127	1,033
	22-Jul	14	21	0	0	2,728	14,659	62	323	1,615	6,122	78	630
	23-Jul	11	14	0	0	1,960	10,481	1	6	1,110	4,341	42	295
	26-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	27-Jul	15	25	0	0	3,596	18,889	12	102	4,834	18,445	142	1,173
	28-Jul	14	21	0	0	2,976	15,827	6	41	3,652	14,586	89	690
	29-Jul	15	24	0	0	3,110	16,389	4	32	5,024	19,813	107	900
	30-Jul	12	20	0	0	2,639	14,001	4	36	4,841	18,766	91	742
	31-Jul	13	25	0	0	2,711	14,716	31	204	4,195	15,856	40	334
	1-Aug	13	18	0	0	3,264	17,776	4	34	3,175	12,564	22	181
	2-Aug	11	16	0	0	2,824	15,318	129	721	3,543	13,734	30	223
	5-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	6-Aug	12	18	1	32	5,117	27,718	18	146	5,526	22,012	99	759
	7-Aug	15	21	0	0	3,142	16,937	122	759	7,010	27,318	53	421
	8-Aug	13	20	0	0	2,735	15,133	27	225	5,107	19,249	29	239
	9-Aug	13	21	0	0	3,912	21,651	34	297	6,722	25,670	92	735
	10-Aug	14	20	0	0	2,341	12,819	31	278	5,305	20,256	55	475

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
ALITAK BAY SECTION (Cont.)													
	11-Aug	13	18	0	0	1,439	7,991	38	348	2,881	10,910	33	253
	12-Aug	10	12	0	0	1,231	6,849	13	119	1,951	7,527	11	100
	15-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	16-Aug	16	25	0	0	4,075	22,265	56	512	5,904	23,010	74	548
	17-Aug	14	22	1	21	2,576	14,269	39	327	3,863	14,566	229	987
	18-Aug	13	16	0	0	2,342	12,638	32	303	3,279	12,592	32	275
	26-Aug	4	4	0	0	545	2,966	4	37	479	1,835	24	177
	27-Aug	11	19	0	0	3,355	18,211	57	542	2,169	8,617	68	580
	28-Aug	10	17	0	0	3,895	21,627	111	1,041	1,704	6,702	40	320
	29-Aug	11	18	0	0	4,369	23,688	104	974	1,082	4,136	35	280
	30-Aug	11	20	0	0	3,941	21,807	89	930	901	3,545	43	370
	31-Aug	9	14	0	0	3,820	20,887	58	611	745	2,922	32	265
	1-Sep	8	15	0	0	2,461	13,647	41	409	474	1,875	22	156
	2-Sep	8	15	0	0	2,747	15,849	87	901	306	1,193	18	159
	3-Sep	9	14	1	7	3,611	19,204	67	679	96	340	12	106
	4-Sep	9	15	0	0	2,605	14,875	104	1,020	140	555	32	272
	5-Sep	10	16	0	0	2,746	15,355	71	642	130	516	18	163
	6-Sep	9	16	0	0	1,753	9,583	47	491	101	444	11	75
	7-Sep	8	12	0	0	1,120	6,239	44	417	38	145	11	84
	8-Sep	10	15	0	0	1,806	10,091	60	598	34	110	8	59
	9-Sep	7	12	0	0	2,179	12,127	48	438	22	77	9	65
	10-Sep	9	14	0	0	2,083	11,601	63	571	21	68	14	104
	11-Sep	6	9	0	0	1,658	10,011	28	233	13	52	4	36
	12-Sep	5	7	0	0	708	4,143	20	187	0	0	0	0
	13-Sep	6	8	0	0	1,246	6,955	64	525	1	3	6	36
	14-Sep	4	4	0	0	512	3,020	20	174	0	0	6	42
	15-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	16-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	35	1,470	22	442	286,847	1,501,414	2,156	18,099	99,112	391,578	5,136	40,070
	Avg. Wt.				20.09		5.23		8.39		3.95		7.80

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
DOG SALMON FLATS SECTION (257-42)													
	7-Jul	13	16	0	0	5,286	24,831	0	0	6	26	426	3,715
	8-Jul	10	17	1	10	3,123	14,948	0	0	2	6	448	4,479
	17-Jul	5	8	0	0	991	4,371	0	0	80	278	792	7,011
	18-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	18	43	1	10	9,805	45,965	0	0	103	394	1,816	16,793
	Avg. Wt.				10.00		4.69		0.00		3.83		9.25
MOSER BAY SECTION (257-43)													
	5-Jun	9	11	0	0	3,638	16,904	0	0	0	0	0	0
	6-Jun	13	15	1	32	6,503	30,377	0	0	0	0	0	0
	7-Jun	14	17	0	0	3,942	18,217	0	0	0	0	0	0
	8-Jun	10	12	0	0	1,894	8,602	0	0	0	0	0	0
	9-Jun	12	15	1	3	2,251	10,345	0	0	0	0	0	0
	10-Jun	12	13	0	0	5,419	25,204	0	0	0	0	3	21
	11-Jun	11	14	0	0	7,056	31,850	0	0	0	0	1	8
	12-Jun	11	15	1	14	7,483	34,178	0	0	0	0	6	48
	13-Jun	8	10	0	0	2,652	12,202	0	0	0	0	8	56
	16-Jun	11	11	0	0	3,338	16,129	0	0	0	0	18	135
	17-Jun	12	17	0	0	5,581	26,431	0	0	0	0	14	110
	18-Jun	12	16	0	0	3,452	16,139	0	0	0	0	46	380
	19-Jun	13	16	2	31	2,927	14,067	0	0	0	0	17	140
	20-Jun	11	13	0	0	1,842	8,910	0	0	0	0	30	225
	21-Jun	13	17	0	0	3,363	16,506	0	0	0	0	28	234
	22-Jun	14	17	0	0	3,410	15,911	0	0	0	0	65	523
	23-Jun	16	23	0	0	4,931	23,634	0	0	0	0	67	540
	24-Jun	16	21	0	0	3,728	18,159	1	5	2	7	93	690
	25-Jun	12	14	0	0	2,246	10,830	0	0	0	0	57	472
	26-Jun	16	21	3	41	3,664	17,255	0	0	0	0	64	495
	27-Jun	16	17	0	0	3,103	14,938	0	0	0	0	60	502
	28-Jun	12	18	0	0	3,526	17,299	0	0	0	0	138	1,026
	29-Jun	15	19	1	6	3,501	17,312	0	0	0	0	113	953
	30-Jun	13	18	0	0	3,600	17,600	0	0	7	29	84	689
	1-Jul	15	18	1	9	4,482	21,744	0	0	13	46	134	1,091

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
MOSER BAY SECTION (Cont.)													
	2-Jul	12	22	0	0	4,194	21,179	0	0	5	19	120	1,014
	6-Jul	9	10	1	14	2,367	11,732	13	51	22	87	86	697
	7-Jul	14	17	0	0	3,035	15,201	104	535	18	61	110	841
	8-Jul	11	16	0	0	2,651	12,665	4	36	19	64	110	858
	9-Jul	11	13	0	0	1,818	8,598	0	0	38	145	62	481
	10-Jul	13	17	0	0	1,322	6,430	0	0	33	120	67	524
	11-Jul	13	16	0	0	1,754	8,897	1	8	59	230	96	770
	12-Jul	14	17	0	0	2,222	11,015	1	7	116	447	138	1,105
	13-Jul	11	16	0	0	1,791	8,798	0	0	94	391	76	676
	16-Jul	12	14	0	0	3,970	20,786	3	21	610	2,268	83	633
	17-Jul	13	18	0	0	4,054	19,980	0	0	685	2,434	83	637
	18-Jul	13	20	0	0	2,046	10,409	0	0	356	1,354	41	310
	19-Jul	13	19	0	0	1,827	9,142	0	0	481	1,802	58	479
	20-Jul	13	18	0	0	2,592	13,142	2	17	864	3,230	53	399
	21-Jul	12	19	0	0	3,316	16,398	56	274	1,065	3,887	50	394
	22-Jul	11	19	0	0	3,563	17,867	2	17	1,311	5,228	57	457
	23-Jul	11	14	0	0	2,479	12,466	0	0	1,254	5,313	45	349
	26-Jul	11	11	0	0	1,654	8,903	0	0	2,663	10,241	48	362
	27-Jul	15	22	0	0	2,480	13,162	1	4	3,760	14,382	54	401
	28-Jul	15	19	0	0	1,442	7,695	3	19	2,973	11,239	54	453
	29-Jul	14	19	0	0	1,806	9,656	11	71	3,128	12,767	31	259
	30-Jul	13	22	0	0	3,406	18,100	5	39	7,712	30,425	57	453
	31-Jul	13	19	0	0	2,765	15,016	10	83	5,641	22,984	46	375
	1-Aug	12	22	0	0	6,319	34,055	5	38	9,576	38,664	55	473
	2-Aug	9	10	0	0	3,435	18,792	1	5	4,594	18,142	9	75
	5-Aug	12	16	0	0	2,002	10,754	13	90	4,874	18,807	44	348
	6-Aug	14	24	1	8	3,910	21,051	10	81	8,764	35,189	71	566
	7-Aug	15	26	0	0	4,674	25,962	30	243	10,236	41,707	49	409
	8-Aug	15	28	0	0	4,226	23,072	27	211	9,412	37,302	42	316
	9-Aug	15	27	0	0	4,103	22,275	37	325	9,162	35,714	54	465
	10-Aug	14	26	0	0	3,592	19,399	35	314	7,318	29,459	43	356
	11-Aug	14	18	0	0	1,867	10,404	41	336	5,504	21,297	27	223

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
MOSER BAY SECTION (Cont.)													
	12-Aug	12	19	0	0	1,394	7,939	39	408	3,580	14,193	19	160
	15-Aug	14	21	1	16	6,294	34,727	64	651	6,582	25,977	43	316
	16-Aug	15	23	0	0	4,139	24,418	110	1,087	7,938	32,140	62	491
	17-Aug	15	26	0	0	4,145	22,902	131	1,140	7,897	30,925	36	303
	18-Aug	15	20	0	0	3,489	19,292	58	572	6,033	23,941	40	338
	26-Aug	14	18	0	0	2,638	14,223	335	3,216	2,977	12,063	62	498
	27-Aug	16	27	1	16	4,258	23,228	329	3,135	5,576	22,317	78	580
	28-Aug	14	25	1	7	6,095	32,253	347	2,807	4,648	17,552	63	492
	29-Aug	15	24	0	0	7,079	37,967	224	2,127	2,961	12,085	32	257
	30-Aug	13	19	0	0	6,660	35,668	211	2,308	2,874	11,127	56	432
	31-Aug	15	25	0	0	5,999	32,176	220	2,156	1,979	7,560	34	254
	1-Sep	12	23	1	5	3,253	18,204	194	1,874	1,126	4,307	32	305
	2-Sep	15	23	0	0	4,056	21,667	334	3,250	633	2,428	34	269
	3-Sep	12	21	0	0	6,432	34,297	209	2,104	166	569	20	169
	4-Sep	16	25	0	0	5,791	32,251	286	2,790	895	3,356	38	309
	5-Sep	11	19	0	0	3,620	19,827	233	2,115	411	1,560	23	193
	6-Sep	11	17	0	0	2,080	11,536	235	2,304	333	1,228	129	773
	7-Sep	11	15	0	0	1,465	8,191	181	1,704	124	485	20	166
	8-Sep	9	14	0	0	1,011	5,710	167	1,596	56	217	13	144
	9-Sep	11	16	0	0	1,190	6,396	112	1,009	45	166	9	67
	10-Sep	10	12	0	0	588	3,238	37	316	21	76	7	46
	11-Sep	5	6	0	0	510	2,778	12	110	14	52	5	35
	12-Sep	4	5	0	0	643	3,822	13	135	0	0	2	18
	13-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	14-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	15-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	16-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	39	1,448	16	202	275,517	1,410,387	4,607	42,837	159,238	629,805	3,929	31,160
	Avg. Wt.				12.63		5.12		9.30		3.96		7.93

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
HUMPY/DEADMAN SECTION (257-50,60,70)													
	7-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	8-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	9-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	21-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	22-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	23-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	24-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	25-Jun	*	*	*	*	*	*	*	*	*	*	*	*
	6-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	7-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	8-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	9-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	10-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	12-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	16-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	17-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	18-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	19-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	20-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	27-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	28-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	29-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	30-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	1-Aug	9	9	4	123	425	2,304	8	67	22,726	85,548	115	982
	2-Aug	4	4	0	0	218	1,161	4	31	12,347	45,563	62	523
	3-Aug	5	5	2	41	275	1,248	13	79	23,467	85,780	90	663
	4-Aug	6	6	1	28	137	614	29	262	18,356	55,070	100	732
	5-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	8-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	13-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	14-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	15-Aug	*	*	*	*	*	*	*	*	*	*	*	*

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
HUMPY/DEADMAN SECTION (Cont.)													
	21-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	24-Aug	4	4	0	0	128	714	251	2,154	3,656	12,802	2,430	18,242
	25-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	28-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	3-Sep	*	*	*	*	*	*	*	*	*	*	*	*
	TOTAL	18	78	51	860	42,519	206,964	894	7,405	150,250	511,483	5,508	41,778
	Avg. Wt.				16.86		4.87		8.28		3.40		7.58
ALITAK DISTRICT (257-10-70)													
	5-Jun	32	34	1	25	16,041	75,864	0	0	0	0	2	16
	6-Jun	40	54	113	2,058	24,931	121,318	0	0	2	14	314	3,192
	7-Jun	39	53	40	648	12,521	61,175	0	0	0	0	185	1,769
	8-Jun	41	49	64	1,079	18,178	88,142	0	0	47	95	344	2,988
	9-Jun	37	47	28	186	12,466	57,533	0	0	0	0	53	381
	10-Jun	45	53	36	606	26,001	122,348	0	0	0	0	161	1,108
	11-Jun	30	38	18	222	18,920	92,072	0	0	0	0	95	719
	12-Jun	38	53	40	787	28,057	135,399	0	0	4	10	109	966
	13-Jun	47	56	85	1,507	19,242	94,673	0	0	0	0	119	1,058
	16-Jun	46	48	45	803	25,931	124,294	0	0	22	60	357	2,820
	17-Jun	42	53	26	551	22,270	108,282	0	0	8	25	262	1,810
	18-Jun	40	51	13	302	16,073	77,496	0	0	1	4	228	1,839
	19-Jun	51	68	35	606	24,655	117,908	0	0	18	60	739	5,477
	20-Jun	48	58	54	1,002	22,398	111,188	0	0	32	88	548	4,093
	21-Jun	44	59	20	371	18,686	93,798	1	6	57	153	557	3,947
	22-Jun	43	58	26	433	17,564	82,587	0	0	21	74	488	3,455
	23-Jun	48	62	49	747	23,679	107,024	0	0	98	290	1,173	8,276
	24-Jun	50	65	27	503	24,997	114,731	1	5	135	419	810	5,859
	25-Jun	47	65	27	475	22,364	103,654	0	0	125	336	654	4,810
	26-Jun	46	62	10	154	12,772	60,341	0	0	11	33	328	2,512
	27-Jun	55	66	17	245	16,982	77,708	0	0	62	217	516	3,794
	28-Jun	44	61	5	66	17,353	84,645	4	22	53	127	542	4,192
	29-Jun	48	63	11	199	25,554	122,818	2	10	231	500	862	6,434
	30-Jun	43	58	3	55	14,775	74,353	3	21	132	413	427	3,379

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
ALITAK DISTRICT (Cont.)													
	1-Jul	47	57	10	243	23,548	119,171	5	29	274	927	852	6,782
	2-Jul	44	67	15	222	17,193	87,683	7	50	284	999	738	5,892
	3-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	4-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	5-Jul	*	*	*	*	*	*	*	*	*	*	*	*
	6-Jul	33	42	9	113	12,771	63,049	42	317	427	1,334	664	5,346
	7-Jul	46	71	8	134	16,189	79,992	291	1,527	1,902	5,893	962	7,935
	8-Jul	52	86	43	902	23,820	118,799	75	572	5,253	15,860	1,836	14,984
	9-Jul	39	50	7	122	9,520	47,922	15	103	1,739	5,396	573	4,673
	10-Jul	50	68	36	755	20,956	113,935	67	502	6,432	19,506	987	7,799
	11-Jul	43	58	22	473	12,818	67,477	55	333	2,918	8,925	556	4,708
	12-Jul	46	58	1	26	11,876	62,166	20	147	2,478	7,749	572	4,327
	13-Jul	35	46	1	17	10,196	53,208	20	126	2,970	9,375	593	4,550
	16-Jul	37	52	6	136	25,345	126,811	296	2,102	20,737	64,679	1,456	11,643
	17-Jul	51	79	13	247	21,965	109,722	25	170	22,483	68,897	1,887	15,444
	18-Jul	47	69	20	414	17,921	89,426	65	460	27,797	85,342	935	7,638
	19-Jul	43	55	8	220	9,585	48,775	930	3,030	10,055	32,339	517	4,060
	20-Jul	44	57	16	384	10,190	52,392	81	575	11,378	36,170	663	4,402
	21-Jul	45	63	21	488	11,408	55,606	271	1,500	15,085	47,437	813	6,471
	22-Jul	41	58	3	58	9,091	46,791	85	502	8,392	27,935	390	3,043
	23-Jul	40	47	8	205	8,327	43,255	13	91	12,374	40,244	372	2,841
	26-Jul	33	35	12	214	7,892	39,962	21	177	31,001	124,136	486	3,329
	27-Jul	50	71	11	237	19,068	98,332	84	675	88,520	309,876	1,214	9,343
	28-Jul	51	73	31	569	14,009	77,697	84	661	73,434	234,076	843	6,164
	29-Jul	45	66	28	700	10,755	56,640	44	337	59,452	214,014	626	4,976
	30-Jul	45	71	44	895	13,853	73,438	182	1,437	68,400	257,735	648	5,129
	31-Jul	46	65	27	748	8,767	46,641	125	992	28,089	107,388	335	2,552
	1-Aug	44	63	26	645	14,063	75,335	158	1,267	54,385	218,704	372	3,114
	2-Aug	31	39	0	0	7,661	41,380	135	763	22,264	84,559	117	935
	3-Aug	5	5	2	41	275	1,248	13	79	23,467	85,780	90	663
	4-Aug	6	6	1	28	137	614	29	262	18,356	55,070	100	732
	5-Aug	35	45	0	0	8,976	50,901	485	3,000	38,307	145,940	239	1,921

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
ALITAK DISTRICT (Cont.)													
	6-Aug	49	74	8	170	23,819	120,068	199	1,869	90,176	304,173	400	3,125
	7-Aug	49	74	17	394	17,123	87,101	229	1,777	80,664	275,416	266	2,146
	8-Aug	46	69	3	63	15,291	77,441	102	849	82,697	278,630	228	1,839
	9-Aug	48	69	2	45	14,190	72,653	145	1,361	55,380	189,610	271	2,169
	10-Aug	44	68	11	261	16,496	83,793	162	1,538	77,082	262,376	262	2,181
	11-Aug	45	57	13	237	12,429	62,074	305	2,890	72,440	248,930	225	1,741
	12-Aug	39	49	6	93	7,780	38,816	205	1,801	53,118	173,348	146	1,143
	13-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	14-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	15-Aug	36	56	1	16	11,709	63,966	171	1,631	26,472	93,343	171	1,320
	16-Aug	47	70	7	140	13,414	73,190	369	3,778	54,691	181,201	343	2,590
	17-Aug	44	64	11	212	12,148	65,075	390	3,475	61,079	203,607	519	3,316
	18-Aug	45	57	4	71	10,156	54,929	251	2,525	25,121	86,044	159	1,247
	21-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	24-Aug	4	4	0	0	128	714	251	2,154	3,656	12,802	2,430	18,242
	25-Aug	*	*	*	*	*	*	*	*	*	*	*	*
	26-Aug	29	35	0	0	5,212	28,252	549	5,234	5,676	22,134	162	1,333
	27-Aug	35	58	1	16	8,358	45,678	646	6,062	10,975	41,851	297	2,385
	28-Aug	32	50	2	27	11,710	62,632	794	6,648	14,479	49,913	696	5,565
	29-Aug	33	52	0	0	14,657	78,106	915	8,000	8,428	30,718	166	1,318
	30-Aug	28	44	0	0	11,743	63,822	392	4,055	4,815	18,859	135	1,078
	31-Aug	31	47	2	37	14,305	77,557	1,006	9,067	9,614	34,864	202	1,549
	1-Sep	27	48	1	5	12,562	66,834	977	8,332	8,879	28,563	154	1,290
	2-Sep	26	42	0	0	7,518	41,265	498	4,875	1,051	4,072	91	723
	3-Sep	27	43	1	7	11,595	61,580	494	4,715	586	2,153	85	668
	4-Sep	27	45	0	0	9,145	51,261	454	4,399	1,248	4,726	87	719
	5-Sep	26	41	0	0	7,180	39,534	475	4,239	759	2,900	79	655
	6-Sep	25	40	0	0	5,041	27,778	1,040	9,272	506	2,030	174	1,113
	7-Sep	23	33	0	0	3,033	16,990	298	2,871	236	924	44	351
	8-Sep	21	31	0	0	2,949	16,582	242	2,342	94	343	21	203
	9-Sep	19	29	0	0	3,444	18,981	167	1,510	67	243	18	132
	10-Sep	20	27	0	0	2,837	15,748	102	903	42	144	21	150

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Section				CHINOOK		SOCKEYE		COHO		PINK		CHUM	
(Stat Area)	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
ALITAK DISTRICT (Cont.)													
	11-Sep	12	16	0	0	2,279	13,426	40	343	27	104	9	71
	12-Sep	10	13	0	0	1,366	8,042	33	322	0	0	2	18
	13-Sep	9	12	0	0	2,557	14,048	115	1,018	1	3	7	42
	14-Sep	7	9	0	0	1,231	7,228	60	599	0	0	11	77
	15-Sep	4	4	0	0	435	2,594	19	175	0	0	0	0
	16-Sep	4	4	0	0	386	2,276	8	70	0	0	2	16
	TOTAL	103	4,403	1,316	24,774	1,156,539	5,825,544	15,897	133,051	1,420,188	4,905,090	38,348	297,974
	Avg. Wt.				18.80		5.04		8.37		3.45		7.77

*=Confidential information

Table 17.-Salmon harvest, by gear and species, for the Alitak Bay District of the Kodiak Management Area, 2004.

			CHINOOK		SOCKEYE		COHO		PINK		CHUM	
Gear	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
EARLY RUN 6/1 - 7/15												
Purse Seine Total	30	264	902	15,922	275,258	1,329,964	186	1,456	23,183	69,425	10,914	81,702
Avg. Wt.				17.65		4.83		7.83		2.99		7.49
Avg. Price				$0.63		$0.53		$0.00		$0.07		$0.06
Set Gillnet Total	65	1,681	43	715	366,394	1,794,320	422	2,314	2,553	9,457	7,292	60,188
Avg. Wt.				16.63		4.90		5.48		3.70		8.25
Avg. Price				$0.61		$0.55		$0.53		$0.06		$0.06
Early Run Total	95	1,945	945	16,637	641,652	3,124,284	608	3,770	25,736	78,882	18,206	141,890
Avg. Wt.				17.61		4.87		6.20		3.07		7.79
Avg. Price				$0.63		$0.54		$0.53		$0.06		$0.06
LATE RUN 7/16 - 10/31												
Purse Seine Total	22	339	361	7,995	172,870	854,933	7,180	55,614	1,052,144	3,471,178	12,190	92,795
Avg. Wt.				22.15		4.95		7.75		3.30		7.61
Avg. Price				$0.65		$0.53		$0.20		$0.06		$0.05
Set Gillnet Total	67	2,119	10	142	342,017	1,846,327	8,109	73,667	342,308	1,355,030	7,952	63,289
Avg. Wt.				14.20		5.40		9.08		3.96		7.96
Avg. Price				$0.41		$0.56		$0.22		$0.06		$0.06
Late Run Total	89	2,458	371	8,137	514,887	2,701,260	15,289	129,281	1,394,452	4,826,208	20,142	156,084
Avg. Wt.				21.93		5.25		8.46		3.46		7.75
Avg. Price				$0.65		$0.55		$0.21		$0.06		$0.05

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Table 17.-(Page 2 of 2)

			CHINOOK		SOCKEYE		COHO		PINK		CHUM	
Gear	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
SEASON TOTAL 6/1 - 10/31												
Purse Seine Total	32	603	1,263	23,917	448,128	2,184,897	7,366	57,070	1,075,327	3,540,603	23,104	174,497
Avg. Wt.				18.94		4.88		7.75		3.29		7.55
Avg. Price				$0.64		$0.53		$0.20		$0.06		$0.05
Set Gillnet Total	71	3,800	53	857	708,411	3,640,647	8,531	75,981	344,861	1,364,487	15,244	123,477
Avg. Wt.				16.17		5.14		8.91		3.96		8.10
Avg. Price				$0.51		$0.55		$0.22		$0.06		$0.06
Entire Season Total	103	4,403	1,316	24,774	1,156,539	5,825,544	15,897	133,051	1,420,188	4,905,090	38,348	297,974
Avg. Wt.				18.83		5.04		8.37		3.45		7.77
Avg. Price				$0.64		$0.54		$0.21		$0.06		$0.06

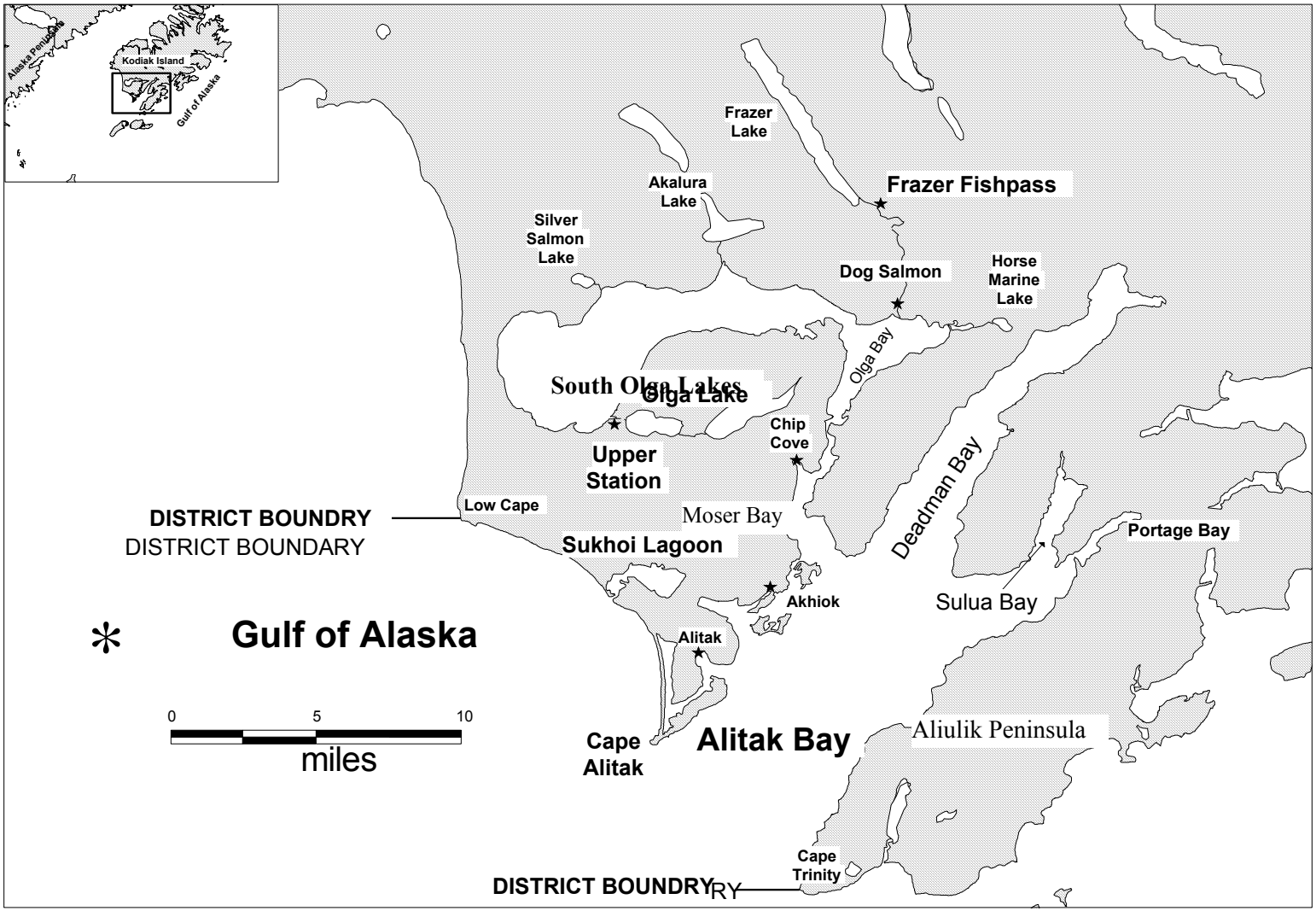


Figure 1.-Map of the Alitak Bay commercial salmon fishing district and sockeye salmon producing systems.

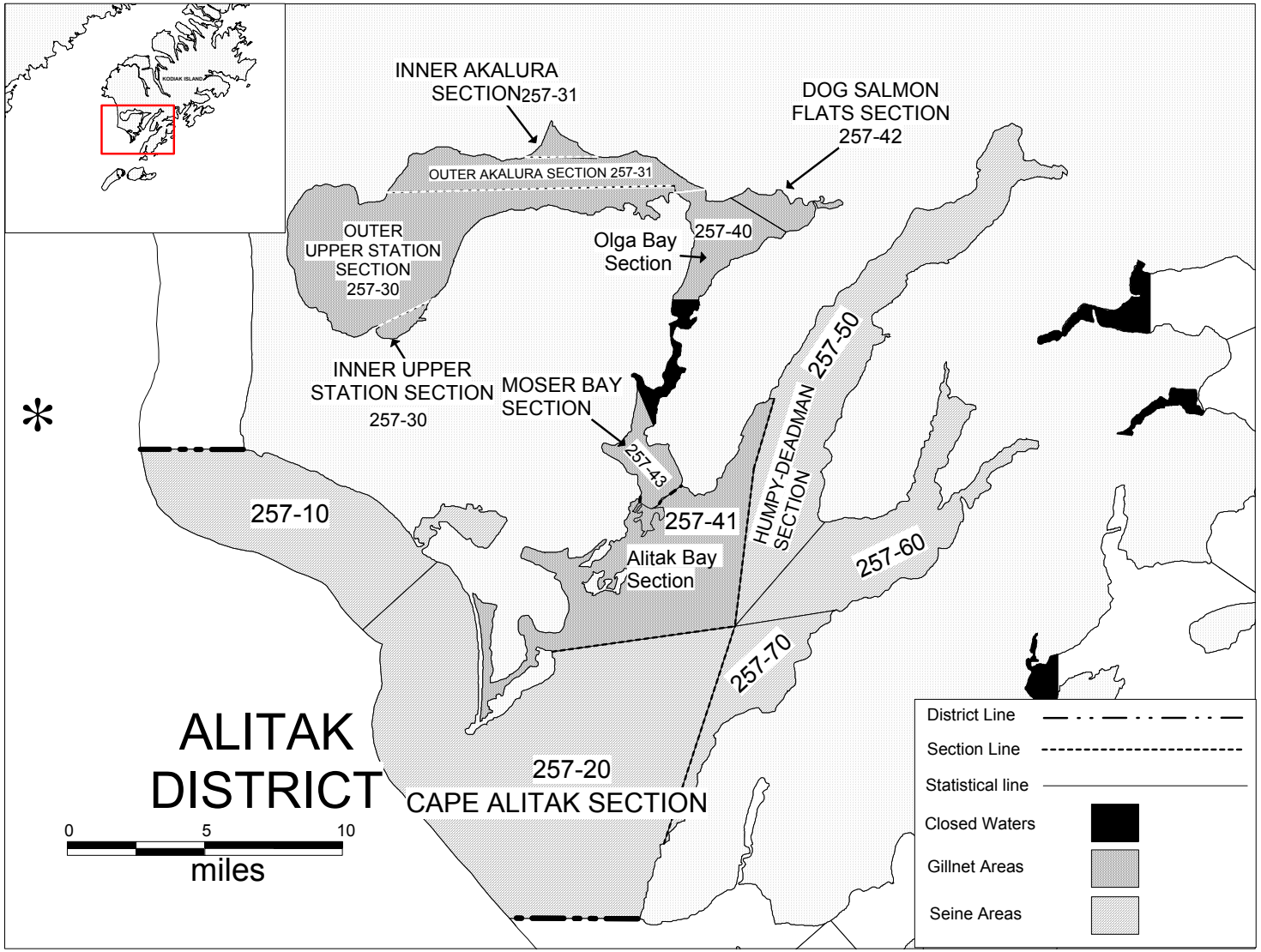


Figure 2.-Map of the Alitak Bay District with exclusive seine and gillnet fishing areas identified.

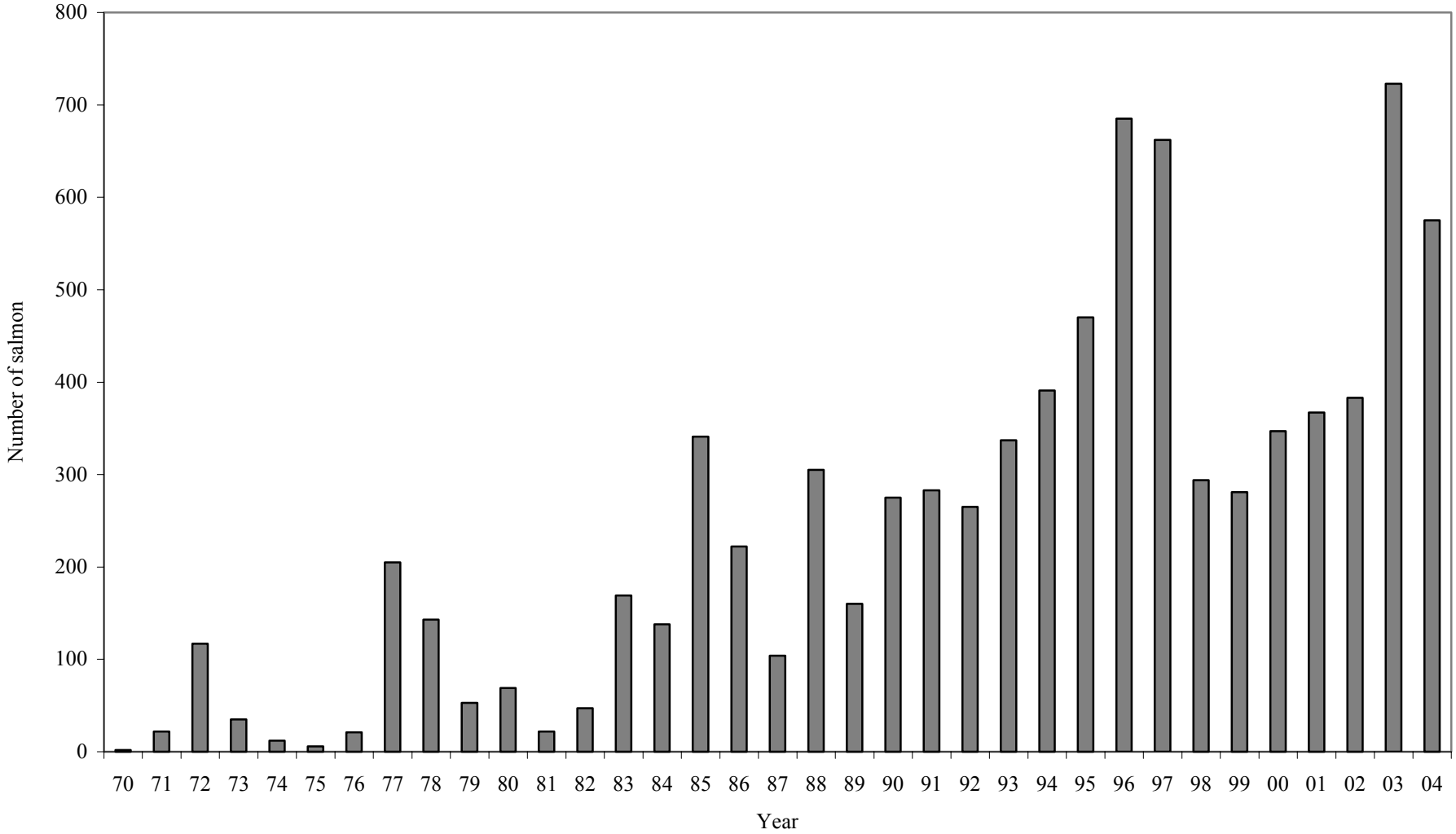


Figure 3.-Chinook salmon escapement for the Alitak Bay District, 1970 to 2004.

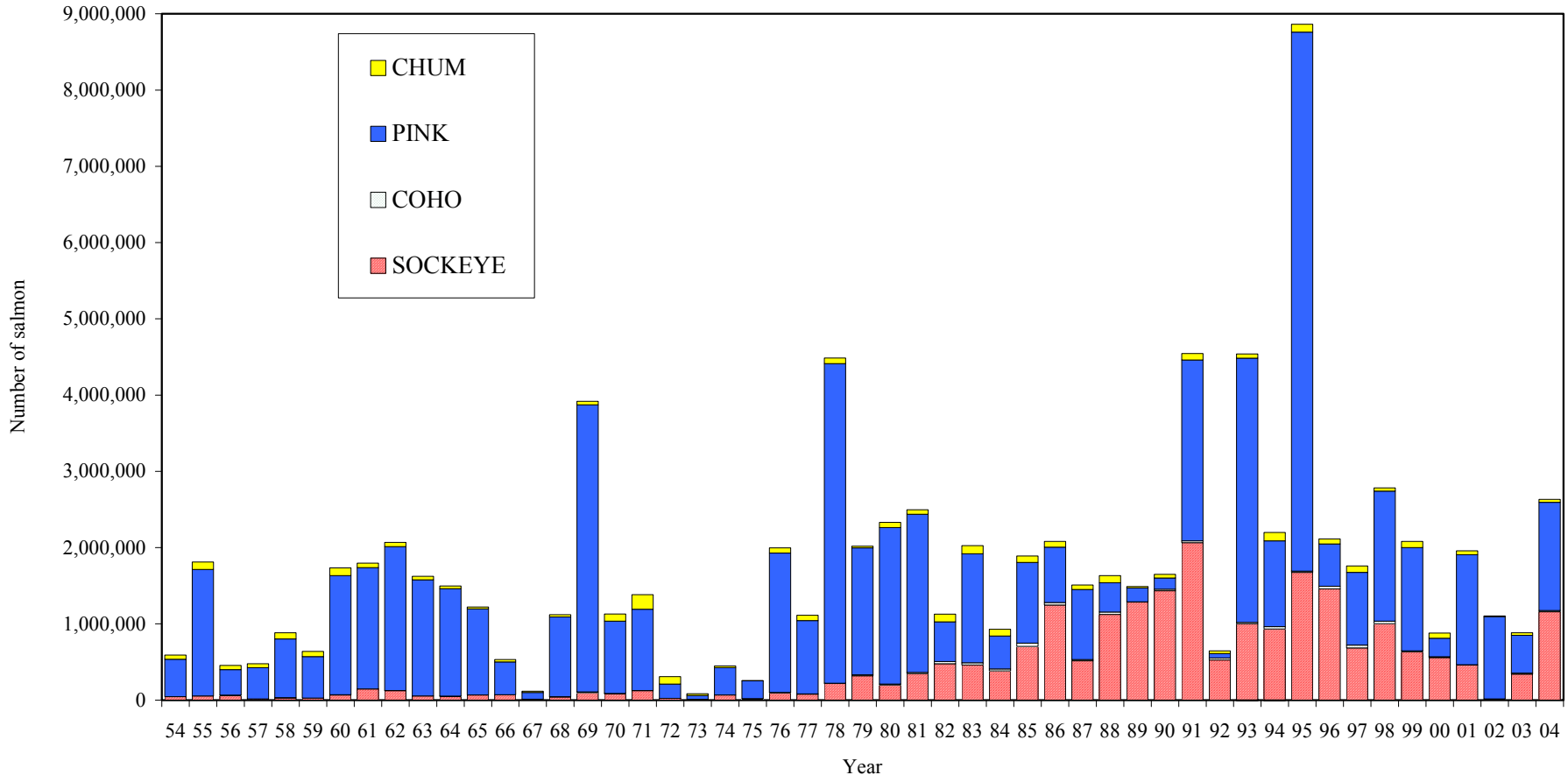
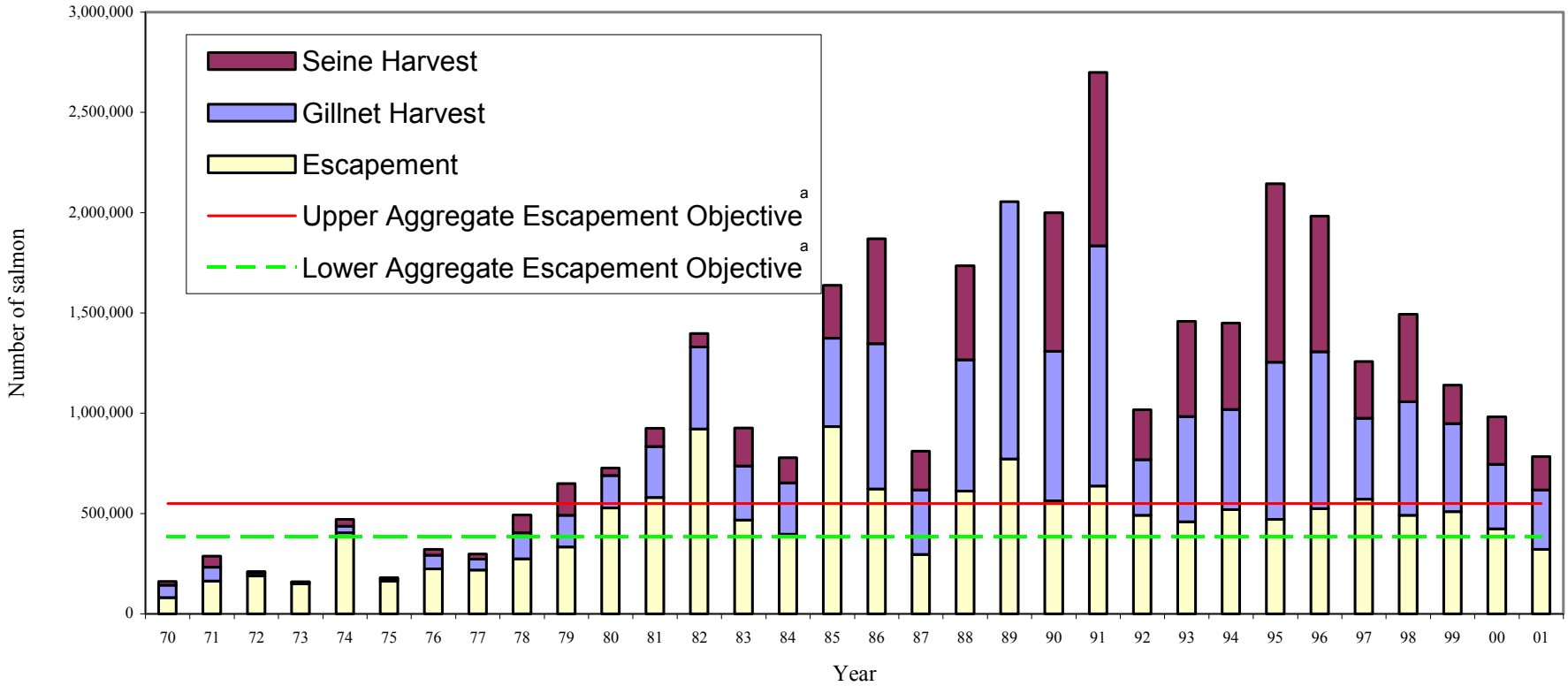
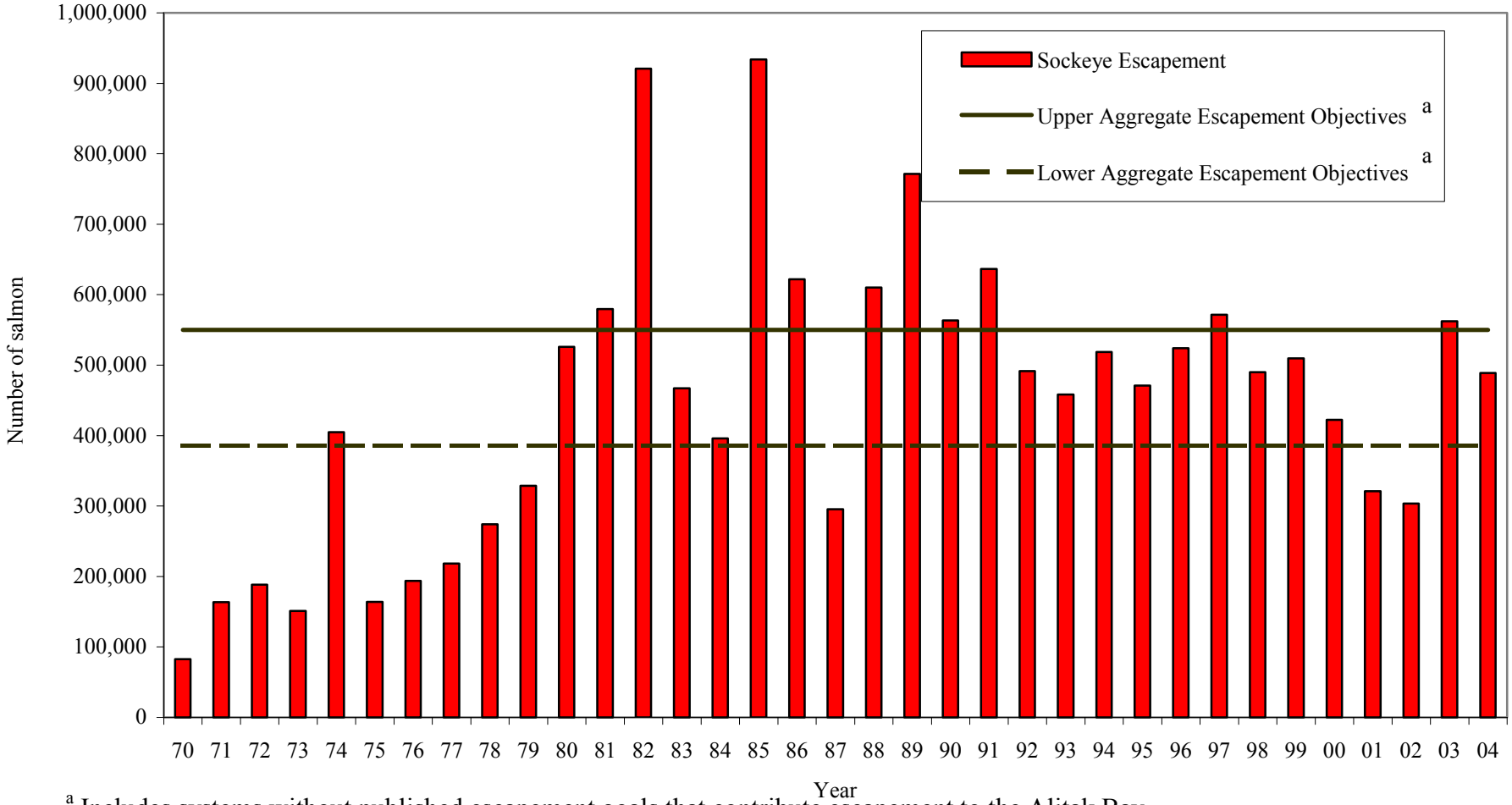


Figure 4.-Annual commercial salmon harvest, by species, all gear combined, for the Alitak Bay District, of the Kodiak Management Area, 1954 to 2004.



[a] Includes systems without published escapement goals that contribute escapement to the Alitak Bay District.

Figure 5.-Sockeye salmon commercial catch and escapement from the Alitak Bay District, of the Kodiak Management Area, 1970 to 2004.



[a] Includes systems without published escapement goals that contribute escapement to the Alitak Bay

Figure 6.-Sockeye salmon escapement and current aggregate escapement management objectives for the Alitak Bay District, 1970 to 2004.

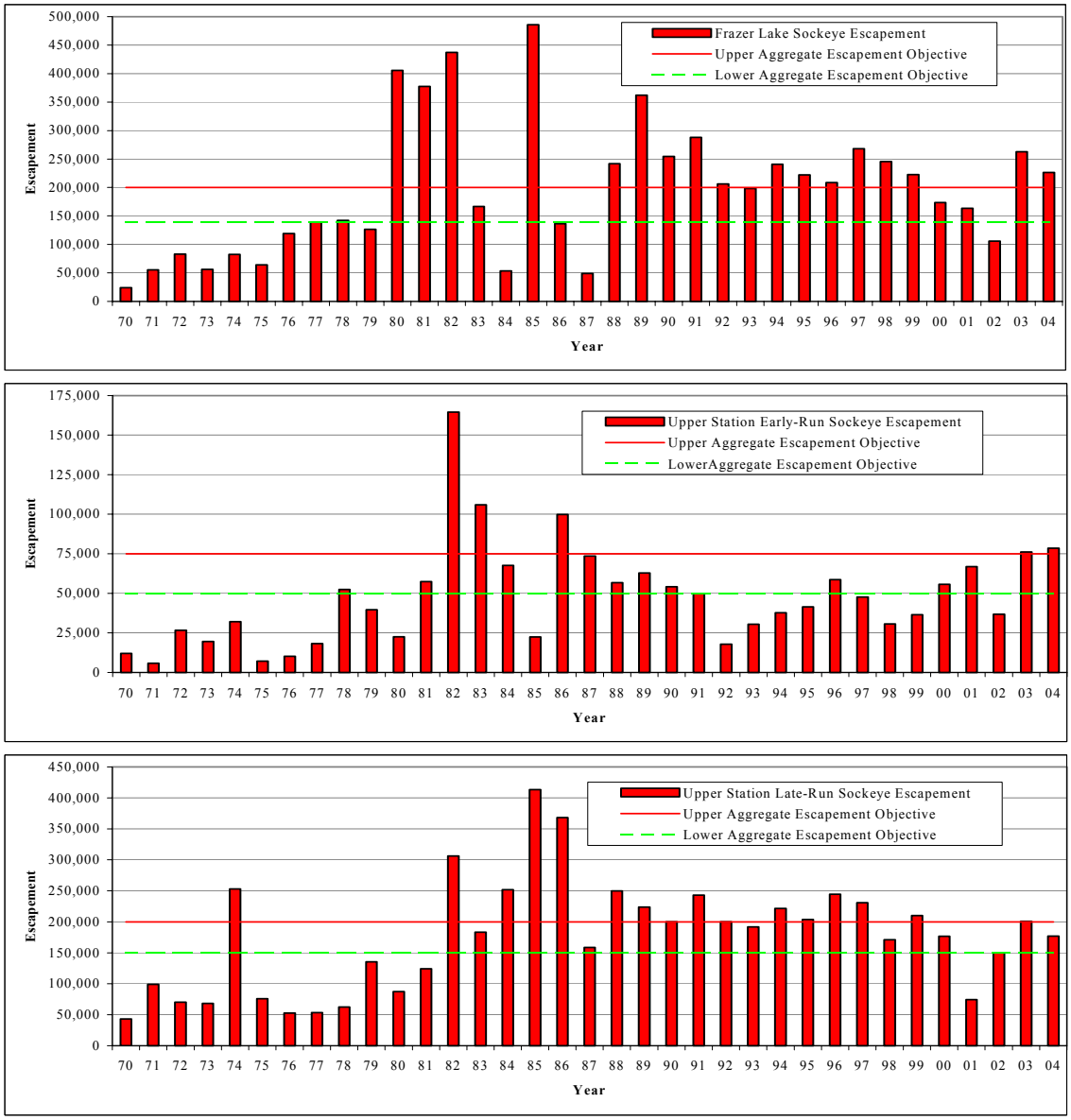


Figure 7.-Frazer Lake, Upper Station early-run, and Upper Station late-run sockeye salmon escapements and current escapement objectives, in the Alitak Bay District of the Kodiak Management Area, 1970 to 2004.

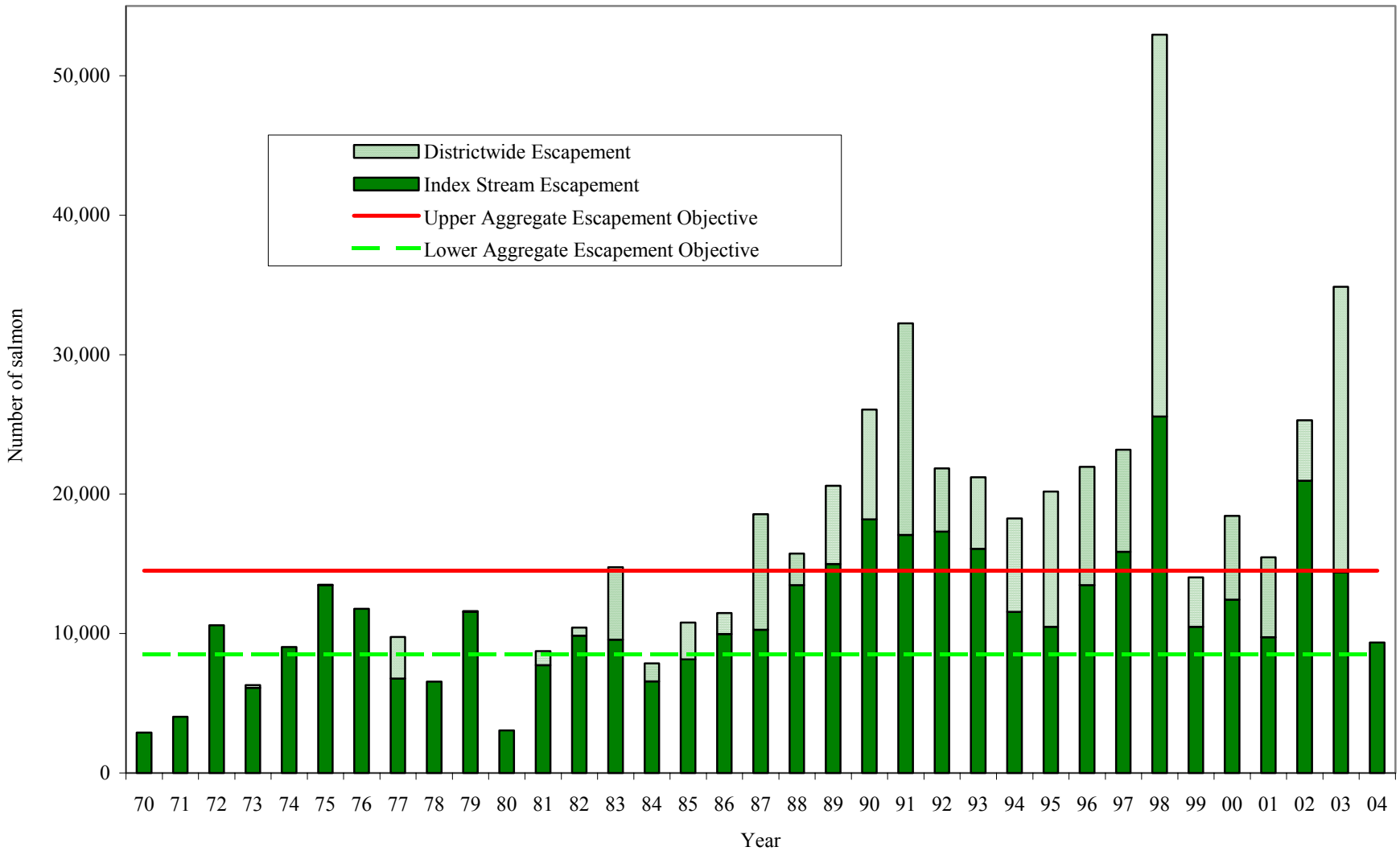


Figure 8.-Coho salmon escapement, districtwide and in index streams, and current indexed escapement objectives for the Alitak Bay District, 1970 to 2004.

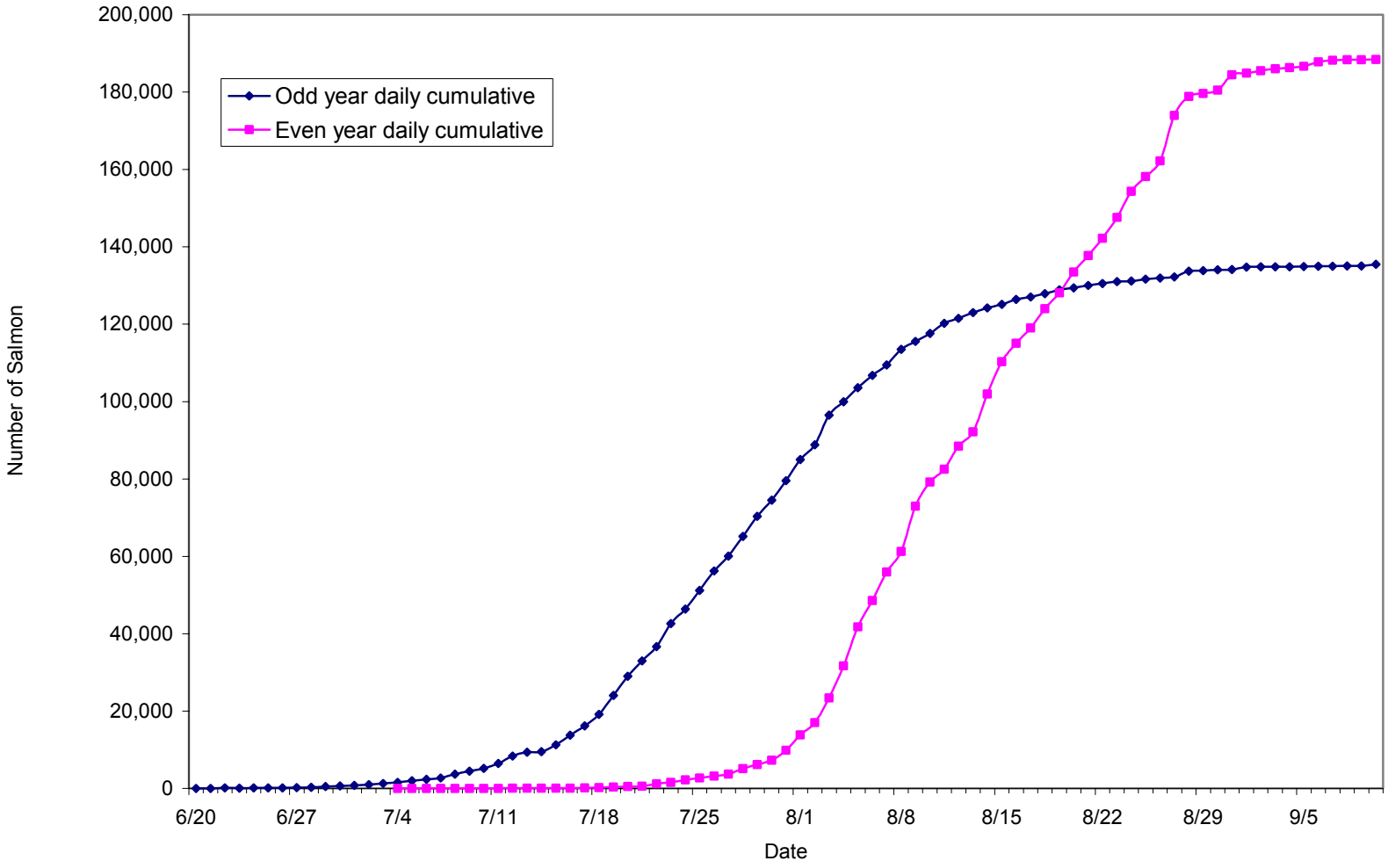


Figure 9.-Average daily pink salmon escapement in Dog Salmon Creek depicting the run timing difference between even and odd years.

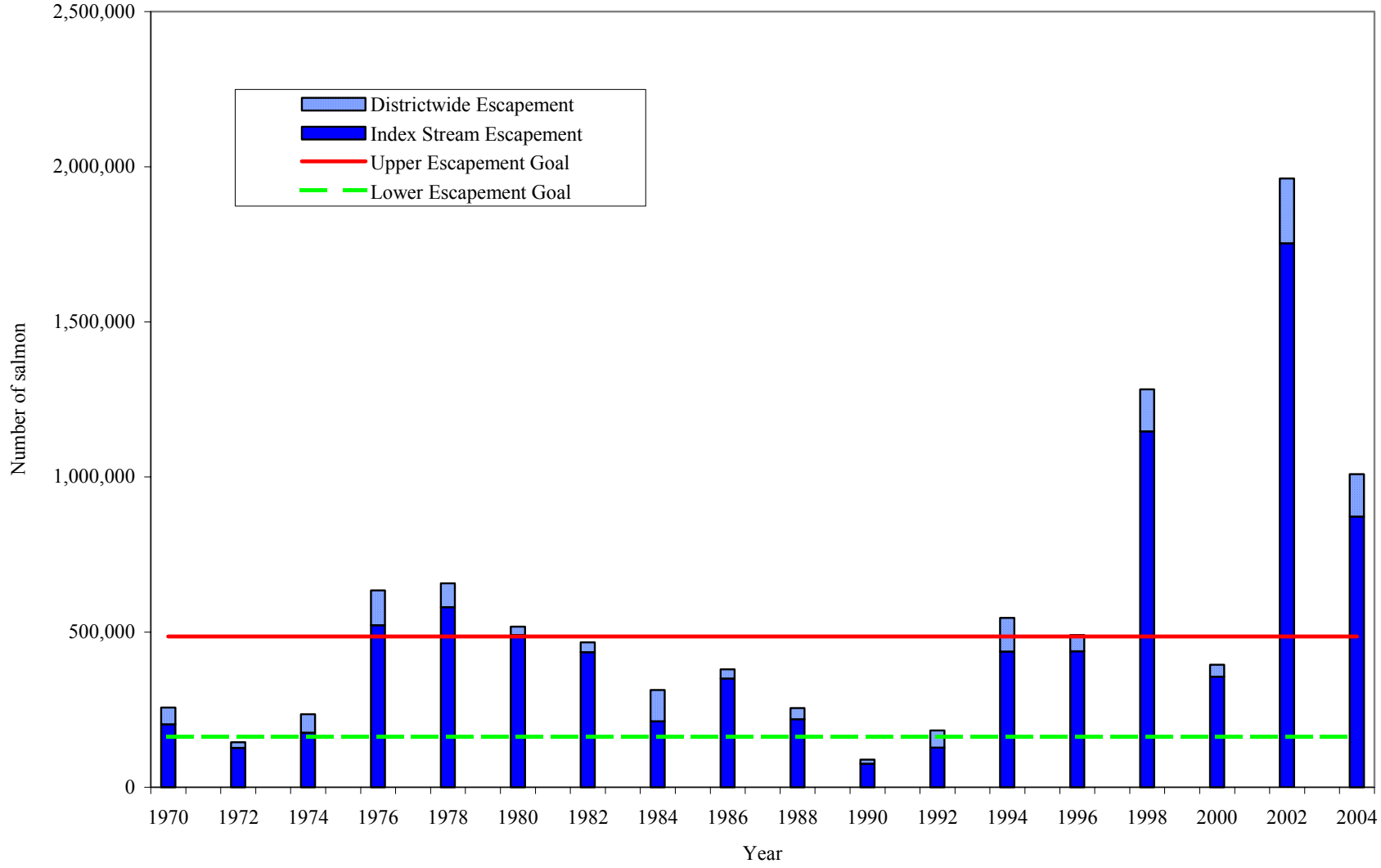


Figure 10.-Even-year pink salmon escapement, districtwide and in index streams, and current indexed escapement objectives for the Alitak Bay District, 1970 to 2004.

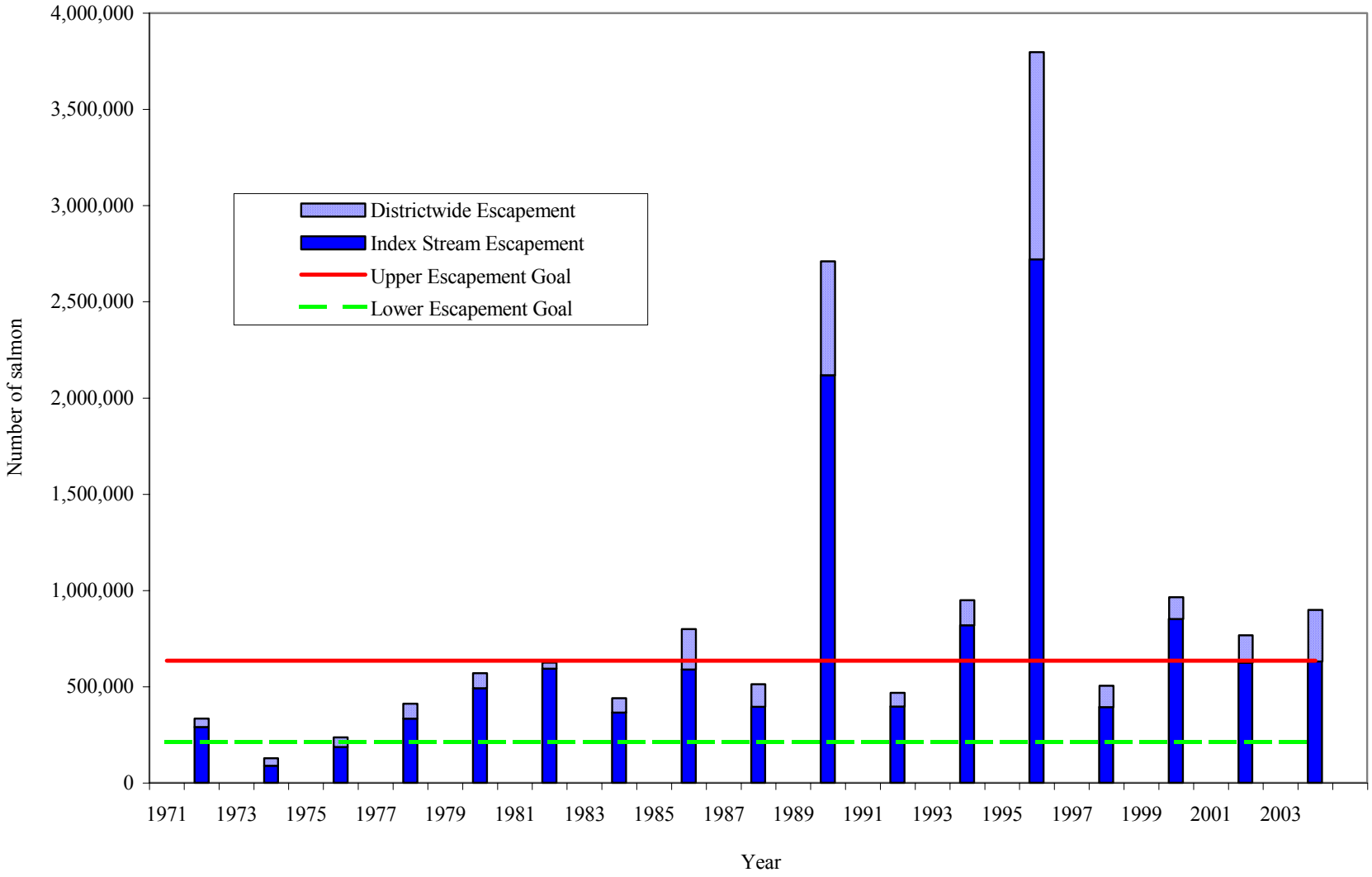


Figure 11.-Odd-year pink salmon escapement, districtwide and in index streams, and current indexed escapement objectives for the Alitak Bay District, 1971 to 2003.

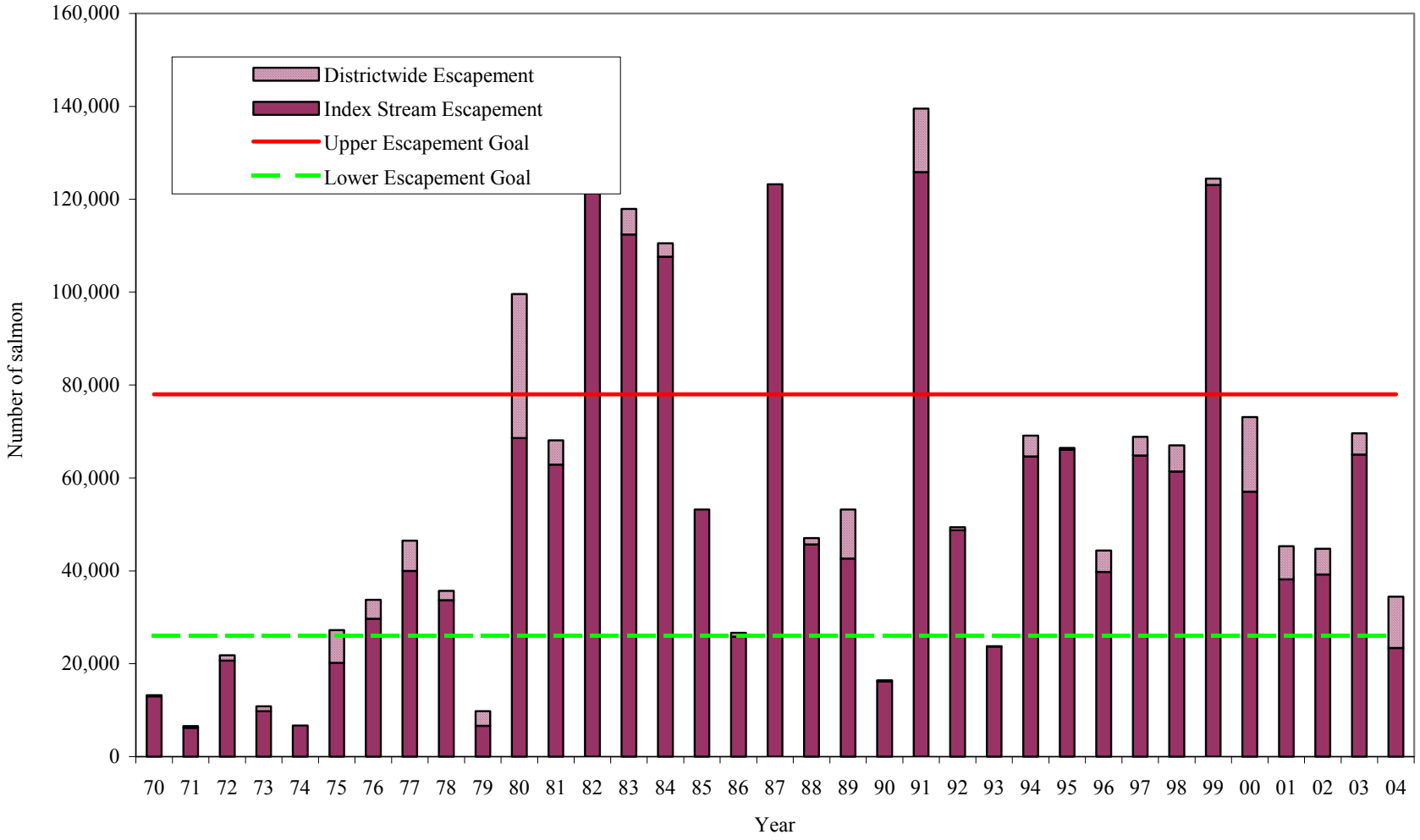


Figure 12.-Chum salmon escapement, districtwide and in index streams, and current indexed escapement objectives for the Alitak Bay District, 1970 to 2004.

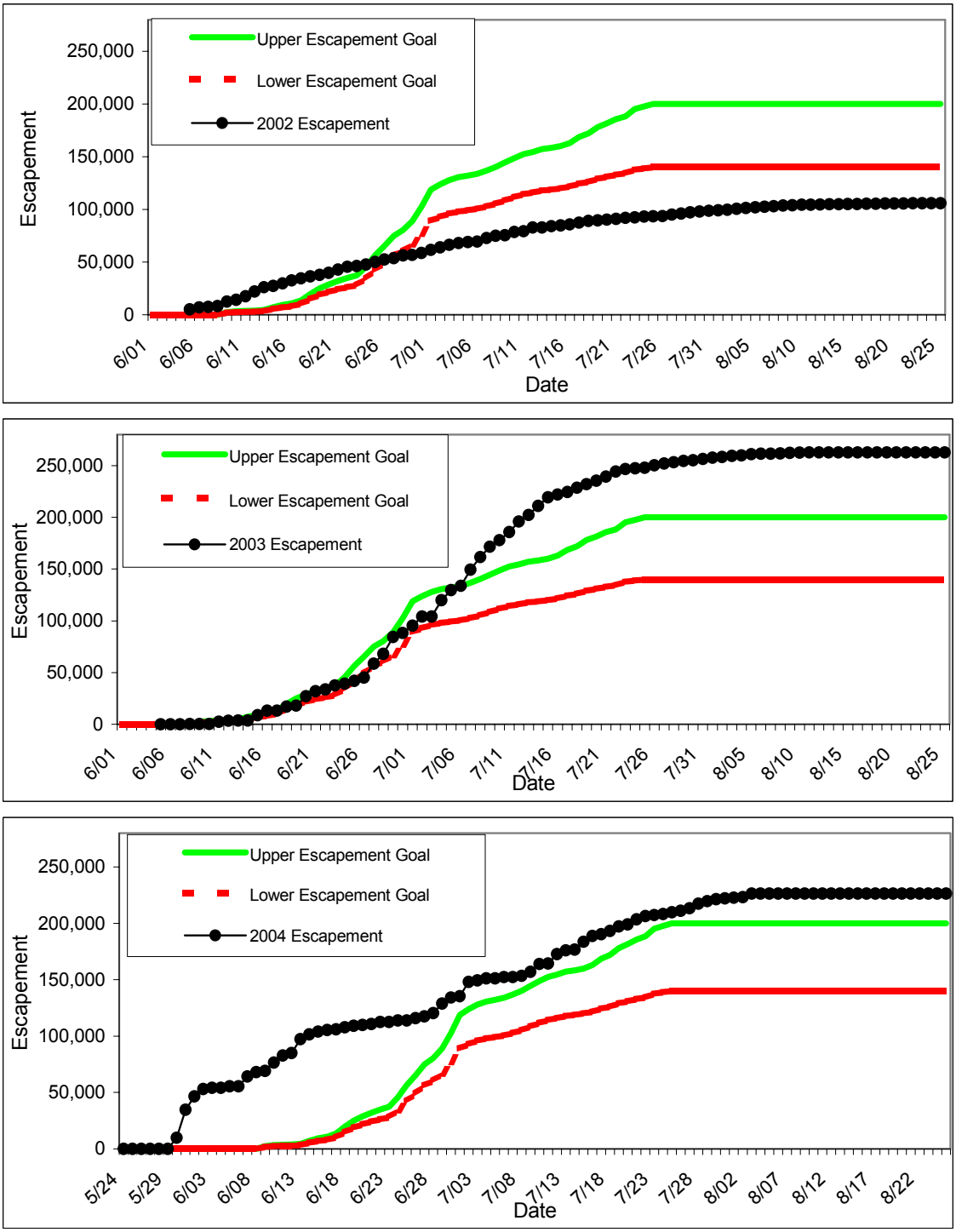


Figure 13.-Frazer Lake sockeye salmon daily escapement and escapement objectives, 2002 to 2004 through the Dog Salmon Creek weir.

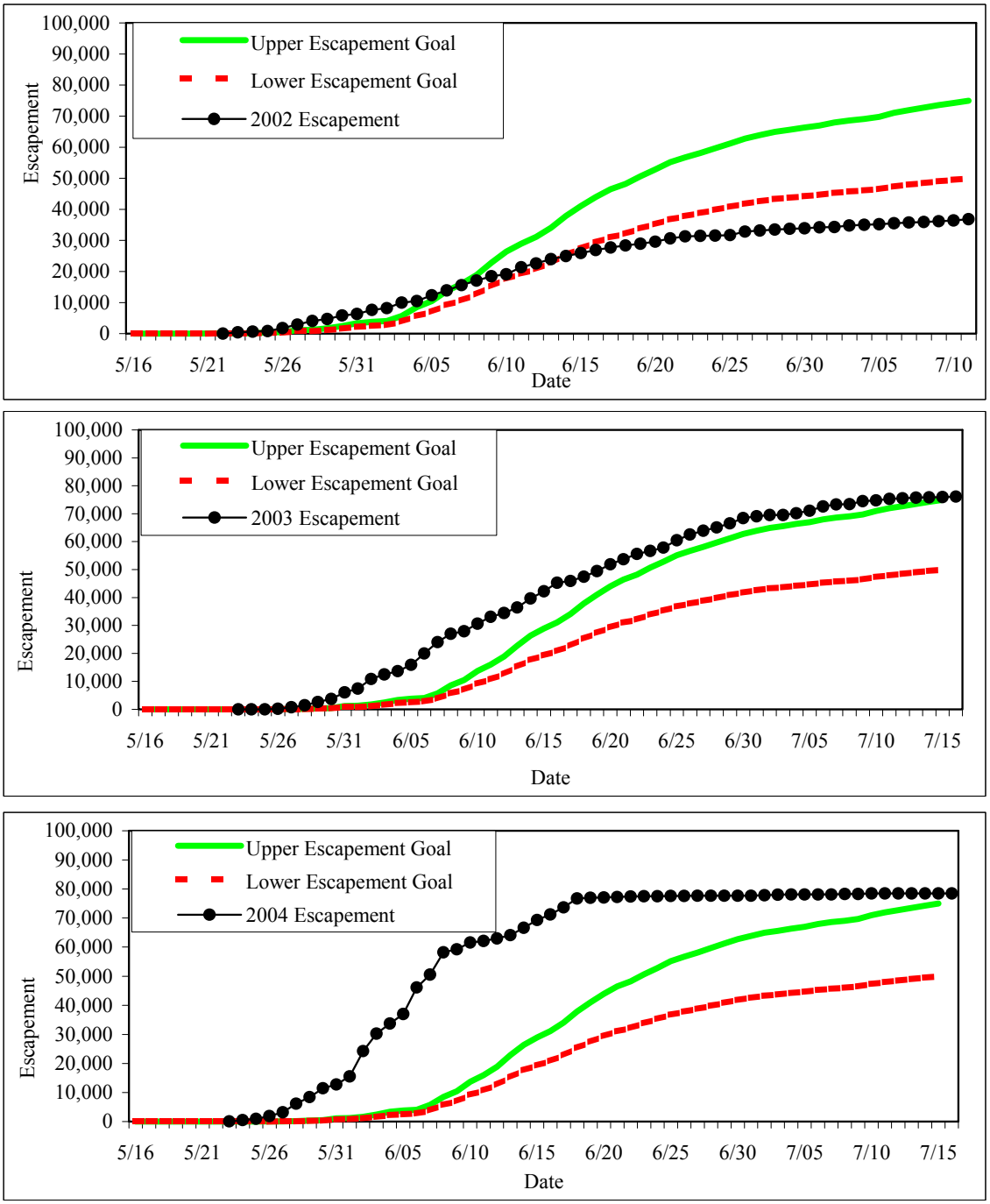


Figure 14.-Upper Station early-run sockeye salmon daily escapement and escapement objectives, 2002 to 2004.

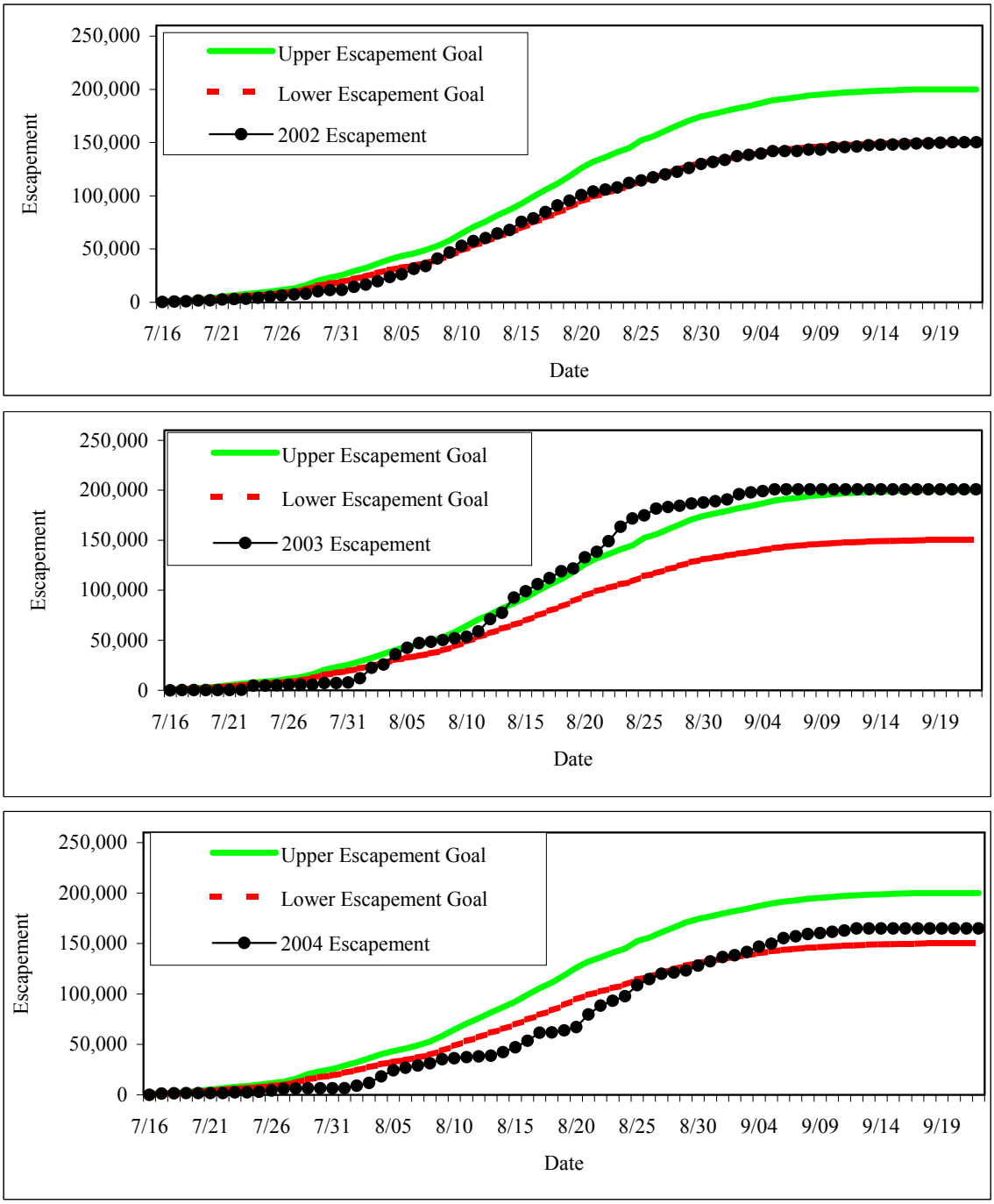


Figure 15.-Upper Station late-run sockeye salmon daily escapement and escapement objectives, 2002-2004.

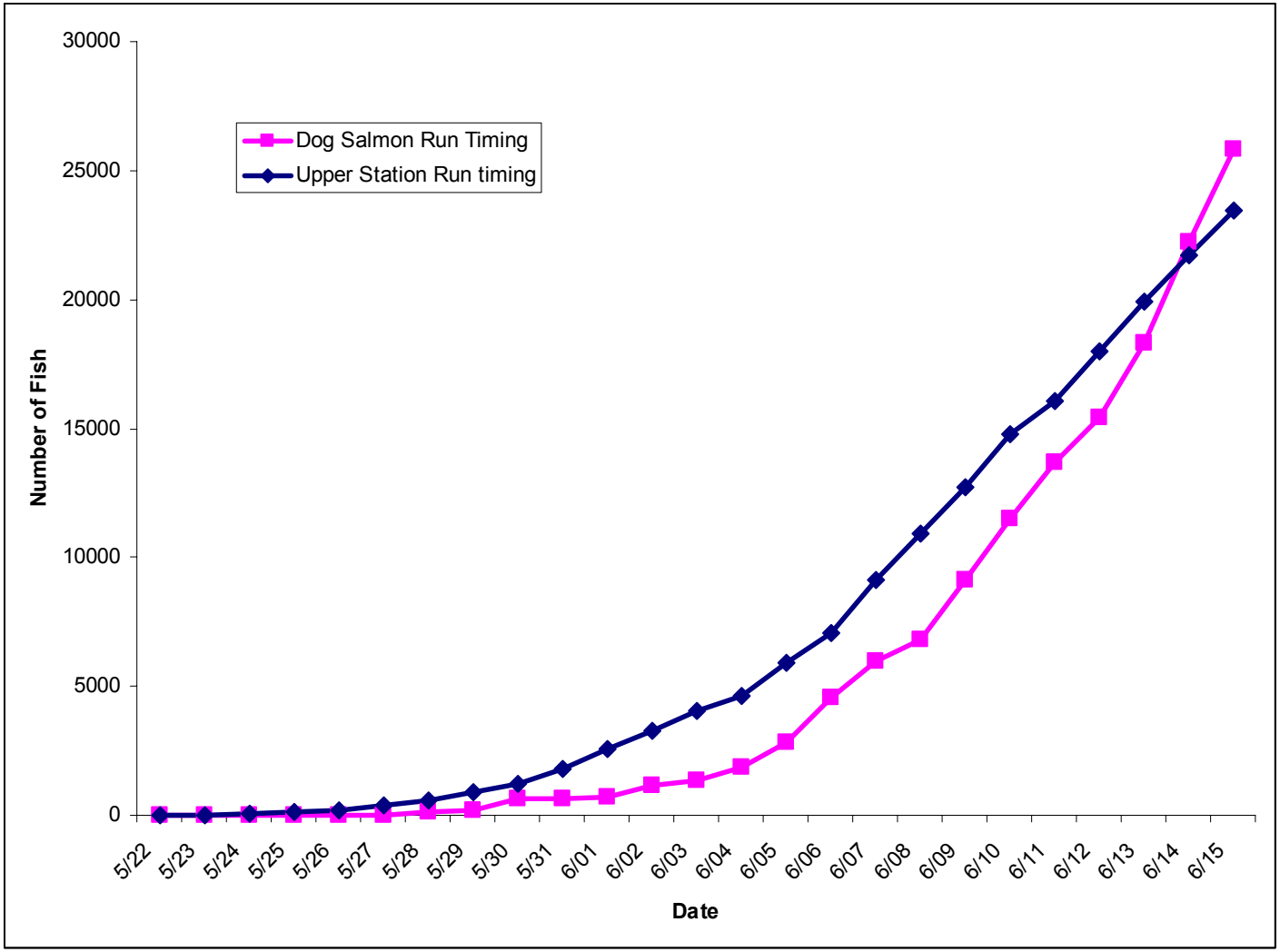


Figure 16.-Comparison of early sockeye salmon run-timing between Upper Station and Dog Salmon.

APPENDIX A. ALITAK BAY DISTRICT SOCKEYE SALMON HARVEST BY SECTION AND/OR STATISTICAL AREA 1992 TO 2002.

Appendix A1–Alitak Bay District sockeye salmon harvest by section and/or statistical area 1992 to 2002.

Year	Section	Permits	Harvest	% of Harvest
1992	Cape Alitak	131	222,483	42.68%
	Moser Bay[a]	65	197,733	37.93%
	Olga Bay	44	69,463	13.32%
	Terminal Areas[b]	34	9,263	1.78%
	Humpy/Deadman	32	22,383	4.29%
	Total harvest		521,325	100.00%
1993	Cape Alitak	112	364,092	36.47%
	Moser Bay[a]	65	384,487	38.51%
	Olga Bay	35	140,168	14.04%
	Humpy/Deadman	60	109,692	10.99%
	Total harvest		998,439	100.00%
1994	Cape Alitak	99	356,528	38.36%
	Moser Bay[a]	61	364,925	39.27%
	Olga Bay	43	114,630	12.33%
	Terminal Areas[b]	30	21,311	2.29%
	Humpy/Deadman	68	71,913	7.74%
	Total harvest		929,307	100.00%
1995	Cape Alitak	129	674,499	40.32%
	Moser Bay[a]	61	622,810	37.23%
	Olga Bay	30	160,188	9.58%
	Humpy/Deadman	103	215,255	12.87%
	Total harvest		1,672,752	100.00%
1996	Cape Alitak	127	550,022	37.72%
	Moser Bay[a]	71	677,399	46.46%
	Olga Bay	23	104,805	7.19%
	Humpy/Deadman	91	125,877	8.63%
	Total harvest		1,458,103	100.00%
1997	Cape Alitak	84	204,195	29.82%
	Moser Bay[a]	70	318,855	46.57%
	Olga Bay	47	68,792	10.05%
	Terminal Areas[b]	39	15,761	2.30%
	Humpy/Deadman	52	77,079	11.26%
	Total harvest		684,682	100.00%

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Year	Section	Permits	Harvest	% of Harvest
1998	Cape Alitak	67	359,619	36.22%
	Moser Bay[a]	61	448,625	45.18%
	Olga Bay	30	118,947	11.98%
	Humpy/Deadman	44	65,793	6.63%
	Total harvest		992,984	100.00%
1999	Cape Alitak	48	104,886	16.62%
	Moser Bay[a]	72	318,283	50.43%
	Olga Bay	42	119,977	19.01%
	Humpy/Deadman	37	88,010	13.94%
	Total harvest		631,156	100.00%
2000	Cape Alitak	58	221,627	39.67%
	Moser Bay[a]	70	265,240	47.48%
	Olga Bay	29	55,820	9.99%
	Humpy/Deadman	24	15,987	2.86%
	Total harvest		558,674	100.00%
2001	Cape Alitak	33	113,509	24.58%
	Moser Bay[a]	61	242,141	52.44%
	Olga Bay	30	52,765	11.43%
	Terminal Areas[b]	6	329	0.07%
	Humpy/Deadman	30	53,041	11.49%
	Total harvest		461,785	100.00%
2002	Humpy/Deadman	13	14,575	100.00%

[a] Area includes Moser Bay and the current Alitak Bay Sections.

[b] Includes Inner and Outer Upper Station, Inner and Outer Akalura, and Dog Salmon Flats Sections.