# Annual Management Report for the 2008 Southeast Alaska/Yakutat Salmon Troll Fisheries 

by

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and
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# ANNUAL MANAGEMENT REPORT FOR THE 2008 SOUTHEAST ALASKA/YAKUTAT SALMON TROLL FISHERIES 

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#### Abstract

Approximately 1.54 million salmon were harvested in the 2008 Southeast Alaska troll fishery (common property + terminal areas). The harvest included 151,900 Chinook, 1,250 sockeye, 1,293,000 coho, 29,200 pink salmon, and 60,800 chum salmon landed by 750 power troll and 379 hand troll permit holders. Of this, 100,200 salmon (5\%) were taken by hand troll gear and 1.42 million salmon ( $95 \%$ ) by power troll gear. The Chinook salmon harvest ranked the 44th highest since statehood and the coho salmon harvest ranked 21 st highest. The preliminary estimated Alaska hatchery contribution of Chinook salmon to the troll fishery, including hatchery terminal harvest was 29,000 fish $(19 \%)$. A total of 252,300 coho produced by Alaska hatcheries were harvested by the troll fleet, which accounted for $20 \%$ of the total troll coho salmon harvest. Chinook and coho salmon escapements for Southeast Alaska rivers were generally within the desired escapement goals.


Key words: Troll, Southeast Alaska, Chinook, Coho, Salmon, Commercial Fisheries, Alaska Department of Fish and Game, Annual Management Report, Pacific Salmon Treaty, Pacific Salmon Commission

## INTRODUCTION

This report describes the Southeast Alaska troll fishery, actions taken by the Alaska Department of Fish and Game (ADF\&G) in management of the fishery from October 1, 2007, through September 30, 2008, and salmon harvest and effort statistics since statehood (1960 fishing season). Status of wild coho and Chinook salmon stocks of Southeast Alaska rivers, as well as hatchery contributions to the troll fishery, are also presented. Harvest statistics for all species include Annette Island harvests. Only Chinook salmon harvest statistics include hatchery terminal area harvests, unless otherwise noted.

## CHINOOK SALMON AND COHO SALMON STOCK DESCRIPTION AND STATUS

## CHINOOK SALMON STOCKS

Native Chinook salmon stocks occur throughout Southeast Alaska and Yakutat, primarily in the large mainland rivers and their tributaries. In total, 34 rivers in the region are known to produce runs of Chinook salmon. The most important are the Alsek, Taku, Stikine, and Chilkat rivers, and the Behm Canal rivers (i.e., Unuk, Chickamin, Blossom, and Keta). The 3 major river systems (Alsek, Taku, and Stikine rivers), as well as several mid-sized systems (Unuk, Chickamin and Chilkat rivers) are transboundary rivers, originating in Canada and flowing through Alaska to the Pacific Ocean. The Pacific Salmon Commission, under the terms of the Pacific Salmon Treaty (PST), addresses shared ownership and coordinated management of the transboundary stocks of the Taku, Stikine, and Alsek Rivers.

Southeast Alaska Chinook salmon stocks are all "spring type," entering spawning streams during spring and early summer months. Fry emerge the following spring and most remain in freshwater for at least one year before migrating seaward. Ocean residency ranges from 2 to 4 years for most Chinook salmon originating in Southeast Alaska. Trollers harvest several age classes of mature spawners and immature Chinook salmon during the fishing season.

Current information indicates that the majority of Chinook salmon harvested in the Southeast Alaska troll fishery is produced from spawning streams and hatcheries in the Pacific Northwest and Canada. This information is based on age composition, coded wire tagging (CWT) studies, and general productivity considerations. Management of Chinook salmon stocks is coordinated through the Pacific Salmon Commission.

## Coho Salmon Stocks

Coho salmon occur in more than 2,000 streams in Southeast Alaska. Most coho salmon streams are small, with the number of spawners typically ranging up to 1,000 fish. Because of the large number of these systems, they collectively contribute substantially to overall production. Lake systems are also important and typically produce returns between 1,000 and 10,000 fish. Large populations occur in the Taku, Chilkat, Berners, Stikine, Unuk, and Chickamin rivers and in most Yakutat area systems. Spawning takes place during the fall and early winter months. Most coho salmon rear in freshwater for one or 2 years, and spend no more than one winter in the ocean before returning to spawn as adults. Most coho salmon harvested by Southeast Alaska trollers are 3 -year-old and 4 -year-old fish of Alaska origin and are harvested in the year of spawning.

## DESCRIPTION OF THE TROLL FISHERY

The commercial troll fishery in Southeast Alaska and Yakutat (Region 1) occurs in State of Alaska waters and in the Federal Exclusive Economic Zone (EEZ) east of the longitude of Cape Suckling [5 AAC 29.010 and 5 AAC 29.020] (Figure 1). All other waters of Alaska are closed to commercial trolling.

The commercial troll fleet is comprised of hand and power troll gear types. Vessels using hand troll gear are limited to 2 lines on hand-operated gurdies or 4 fishing rods [5 AAC $29.120(\mathrm{~b})(2)(\mathrm{C})]$. Vessels using power troll gear are generally larger than those using hand troll gear. Power trollers are limited to 4 lines on power-operated gurdies, except within the EEZ north of the latitude of the southernmost tip of Cape Spencer, where 6 lines may be used [5 AAC $29.120(\mathrm{~b})(1)(\mathrm{A})$ and (B)]. Resident Alaska troll permit holders make up $86 \%$ of the active participants of the troll fishery. While the majority of the troll fleet sells their catch to processing plants onshore, the fleet does include approximately 55 catcher-processors, who harvest and freeze their catch at sea.
The commercial troll fishery primarily harvests Chinook and coho salmon. Historically, the troll fishery harvested about 85 to $90 \%$ of the Chinook salmon taken in Southeast Alaska. Since 1980, the percentage of the Chinook salmon harvest taken by the troll fishery has declined due to harvest ceilings imposed as part of the PST coastwide rebuilding program, as well as allocation guidelines established by the Alaska Board of Fisheries (BOF). The troll fleet historically harvested 50 to $75 \%$ of the Southeast Alaska commercial coho salmon. Since 1989, the troll fleet has been managed to harvest an average of $61 \%$ of the commercial coho salmon harvest [5 AAC 29.065]. The actual 1989-2008 average is 64\%.

Other species are harvested incidentally, although pink and chum salmon are targeted in Cross Sound, where a special fishery is open in June. In addition, hatchery chum salmon are targeted in Sitka Sound and Neets Bay. The troll fleet also incidentally harvests Pacific halibut under federal Individual Fishing Quota (IFQ) regulations, and lingcod and rockfish under state regulations.

## CHINOOK SALMON FISHERY

Commercial trolling for Chinook salmon occurs during both winter and summer seasons. The winter season is defined as October 1-April 30, or until 45,000 Chinook salmon are harvested, followed by the summer season from May 1 (or the end of the winter season) to September 30.

By regulation, the open area during the winter fishery is restricted to those areas of lying east of the "surf line" south of Cape Spencer, and the waters of Yakutat Bay [5 AAC 29.020 (b)]. All outer coastal areas, including the EEZ, are closed during the winter fishery. The summer season is divided into the spring and general summer fisheries. The spring fisheries are intended to increase the harvest of Alaska hatchery-produced Chinook salmon and occur primarily in inside waters near hatchery release areas or along migration routes of returning hatchery fish. These fisheries begin after the winter fishery closes and may continue through June 30. The spring troll fisheries can begin prior to May 1 if the winter fishery closes early, when the harvest cap of 45,000 Chinook salmon is reached. The general summer fishery opens July 1 and harvests the majority of the annual Chinook salmon quota. During the summer fishery, most waters of the Southeast Alaska/Yakutat area are open to commercial trolling, including outer coastal waters.

Recent all-gear Chinook salmon harvests in Southeast Alaska have been the highest since statehood and are an exception to the declining trend in harvests since the late 1930s (Figure 2). The reductions in harvests prior to the 2000 season occurred primarily because of harvest ceilings imposed by the BOF and the PST. A guideline harvest level for all stocks and a 15-year rebuilding program for Southeast Alaska Chinook salmon stocks were established in 1981. In 1985, the PST was signed, and a coastwide rebuilding program for depressed non-Alaska Chinook salmon stocks that contribute to the Southeast Alaska fisheries began. The decline in coastwide abundance was primarily the result of overfishing of natural Chinook salmon stocks and the loss of freshwater spawning and rearing habitat in the Pacific Northwest. Abundance of Chinook salmon stocks harvested by the Southeast Alaska fisheries has generally increased since the rebuilding programs began, with peak abundance approximately twice the average 19791982 base period abundance.
In 1996, after 3 years without a Chinook salmon annex fishing agreement between the U.S. and Canada, the "Letter of Agreement Regarding an Abundance-Based Approach to Managing Chinook Fisheries in Southeast Alaska" (LOA) was signed among the U.S. members of the PST. This agreement, which was in effect from 1996 through 1998, established an annual treaty quota based on preseason and inseason abundance estimates. Annual Chinook salmon troll harvests since 1997 have averaged about 245,700 fish.

In 1999, a new set of Pacific Salmon Treaty Agreements (PSTA) was signed under the PST, including an agreement for Chinook salmon. The new Chinook salmon agreement was similar to the abundance-based management of the LOA, with quotas based on preseason and postseason abundance estimates. However, under the PSTA, Alaska agreed to lower Chinook salmon harvests at lower abundance levels than had been implemented in either the PST or the LOA.
Over the past 23 years, since 1985, the harvest of treaty Chinook salmon has exceeded the quota 14 times and has been less than the quota in 8 of the last 23 years through 2007 (the 1996 and 1997 quotas were ranges). In 2007, fisheries were managed to not exceed the preseason all-gear Chinook quota of 329,400 and the final harvest was within $0.3 \%$ of that quota. When the first postseason Chinook model calibration was announced the following April, the all-gear quota dropped to 259,200 fish, resulting in an overage of more than 70,000 fish. The final 2008 quota is based on the first postseason calibration of the CTC Coastwide Chinook model (which occurs in early spring) and has not yet been finalized (Table 1).

## Chinook Salmon Management Methods

The harvest of Treaty Chinook salmon by commercial salmon trollers is limited to a specific number of fish, which varies annually according to an abundance estimate. The accounting of Treaty Chinook harvested by trollers begins with the winter fishery and ends with the summer fishery.

The winter troll fishery is managed to not exceed the guideline harvest level (GHL) of 45,000 Chinook salmon. Fish tickets provide inseason information on harvest and effort throughout the fishery. In years when the winter fishery closed prior to April 30 because the GHL was reached, daily tallies from regional processors were an important tool in tracking harvest during the final weeks of the fishery.

While there is no ceiling on the number of Chinook salmon harvested in the spring fisheries, the take of Treaty Chinook salmon is limited according to the percentage of the Alaskan hatchery fish taken in the fishery. Fish tickets and biological sampling data provide information on harvest, effort and stock composition. This information is processed on a daily basis and is essential for the inseason management of the spring fisheries.

The summer troll Chinook salmon fishery targets the remainder of the troll Treaty Chinook quota during one or more openings. Due to the time lag between when fish are harvested and when the harvest information is received through fish ticket receipts, ADF\&G conducts a fisheries performance data program (FPD) to estimate the catch per unit of effort (catch per boat day (CPBD)) inseason during the summer fishery. Confidential interviews are conducted with trollers to obtain detailed CPBD data. Aerial surveys are conducted to obtain an immediate estimate of effort. Total harvest to date is estimated by multiplying vessel counts observed during weekly overflights with the CPBD data obtained from the interviews. Daily tallies from regional processors are an important tool in tracking harvest during the final days of each summer Chinook opening, similar to the winter fishery.

## COHO SALMON FISHERY

The regulatory period for coho retention in the troll fishery is June 15 through September 20, with an extension to September 30 in years of high coho salmon abundance [5 AAC 29.110(a)]. Troll harvests of coho salmon peak between late July and mid-August, while harvests in the inside gillnet fisheries peak during the first 2 weeks in September. Escapements into streams generally peak in late September through early October. Figure 3 presents combined run timing for 3 coho index lake systems showing somewhat earlier escapements with peak returns in late August.
All-gear harvests of coho salmon averaged 2.0 million fish during the 1940s (Figure 4). A decline in average harvest occurred during the next 3 decades, with a low decade average of 1.0 million fish in the 1970s. The BOF adopted a coho salmon fishery management plan in response to increasing effort and efficiency in the hand troll fleet, increased capitalization and efficiency in the power troll fleet, and increased troll harvest in outside waters (Figure 5). This plan, adopted in 1980, provides for conservation and allocation of coho salmon stocks in Southeast Alaska. The initial plan set the precedent for a mid-season troll closure to provide for adequate distribution of coho salmon escapement and for allocation to other gear groups.
The average all-gear commercial coho salmon harvest increased to 1.9 million fish in the 1980s and to 3.2 million fish in the 1990s, with a record 5.5 million fish harvested in 1994 (Figure 4).

Factors contributing to the increased harvests over the past 2 decades include better spawning escapement levels achieved under the conservative management regime implemented in 1980, and increased marine survivals due to favorable environmental conditions (Table 2). Increased harvests were also attributed to more intensive fishing in highly mixed stock areas, increased targeting of coho salmon during Chinook salmon non-retention periods, and increasing contributions from Alaska hatchery production.

The coho salmon fisheries are managed to comply with the Southeastern Alaska/Yakutat Area coho salmon fishery management plan [5 AAC 29.110]. Inseason run strength is used to achieve ADF\&G conservation objectives and BOF allocation objectives adopted in the management plan (Table 3). The current coho management plan calls for a troll closure in late July if the total projected commercial harvest of wild coho salmon is less than 1.1 million fish [5 AAC 29.110 (b)(1)]. A troll closure may occur in August if either the number of coho reaching inside areas may be inadequate to provide for spawning requirements given usual or restricted inside fisheries on coho and other species [5 AAC 29.110 (b)(2)(A)]; or the proportional share of coho salmon harvest by the troll fishery is larger than that of inside gillnet and recreational fisheries compared to average 1971-1980 levels [5 AAC 29.110 (b)(2)(B)].

There are no harvest ceilings for Southeast Alaska coho salmon fisheries. However, under the 1999 PSTA, the area near the U.S./Canada border will close if the harvest rates by Alaska trollers fishing in the border area fall below specified thresholds.

## Coho Salmon Assessments and Management Tools

Long-term wild stock and hatchery stock CWT programs, dockside sampling programs to sample the harvest for CWTs, escapement monitoring, and the troll FPD collection program all began in the early 1980s and continue through the present day. As years of data were gathered from each program, more information and understanding of stock movement, stock timing, and stock harvest were accumulated. As a result, a model was developed in 1989 to accurately estimate the end of season all-gear coho salmon commercial harvest by late July using the salmon troll FPD. In the mid 1990s, escapement goals were established for several stocks in Southeast Alaska based on spawner-recruit relationships from long-term databases of harvest rate, harvest, age composition, and escapement information. These long-term monitoring programs have provided the backbone for successful conservation of coho salmon in Southeast Alaska.

## Historical Effort in the Troll Fishery

Since the power troll fishery came under limited entry in 1975, the number of power troll permits fished increased to over 800 permits during the late 1970s and remained relatively constant through the mid 1990s. Effort was highest in 1989, when 853 permits were fished. Since 1996, the number of power troll permits fished has been between $13 \%$ and $25 \%$ below the high level in 1989. The number of power troll permits fished has increased since the low level in 2003 to 750 permits fished in 2008 (Table 4; Figure 6). Fluctuations in effort relate strongly to salmon prices.

In the late 1970s, limited entry for the hand troll fleet was under consideration by the Commercial Fisheries Entry Commission (CFEC), and the number of hand troll permits fished doubled from 1,100 permits in 1975 to a high of 2,644 permits in 1978. Due to this increased effort, the CFEC initiated a selective limited entry regime for the hand troll fishery in 1982. Of the 2,162 permits issued that year, 1,096 hand troll permits have been revoked due to non-
renewal. The number of hand troll permits fished declined steadily from 1979 through 2002, when hand troll participation reached a low point of 251 permits. Since then, hand troll effort has been increasing each year, with 382 permits fished in 2007 and 379 fished in 2008. The percentage of hand troll permits fished compared to total troll permits fished has declined as well, from $76 \%$ in 1978 to a low of $27 \%$ in 2002 and to $34 \%$ from 2006 to 2008 (Table 4). Compared to 2007, both power and hand troll effort decreased during the winter season and increased during the spring fishery. During the summer fishery, hand troll and overall effort increased compared to 2007, while power troll effort did not change (Table 5; Figure 7).
The number of fishing days in the Chinook salmon general summer fishery dropped from a high of 169 days in 1978 and 1979 to a low of 4.5 days in 1992. As a result, effort in number of boatdays fished declined during Chinook salmon retention (CR) periods from 76,700 boat-days in 1981 to a low of 2,900 boat-days in 1992. During Chinook salmon non-retention (CNR) periods, effort has increased from 3,500 boat-days in 1981 to a high of 38,400 in 1989 (Table 6; Figure 8).

## SUMMARY OF THE 2008 SEASON

The troll fleet harvested 1.52 million salmon during the 2008 season (Table 7). The majority of the Chinook salmon harvest occurred during the general summer openings of July $1-5$ and August 16-21 (Table 8). The coho salmon harvest was at generally lower than average levels throughout the summer season. The regionwide coho salmon harvests and harvest rates were at average levels at the beginning of the season, dropped to lower than average levels until early September, when catch rates rebounded to slightly above average levels, and ended up near average at the end of the season. The average 2008 coho weight was over a pound heavier than the 2007 and both the $5-$ year and $20-$ year averages (Table 9).
In 2008, hand troll vessels harvested 100,239 fish and power troll vessels harvested 1.42 million fish. The proportion of the commercial troll harvest taken by the hand troll fleet has decreased from $32 \%$ in 1978 to $5 \%$ in 2008 (Tables 10 and 11). The CFEC renewed 934 power troll permits and 944 hand troll permits, which was 7 more power troll permit and 33 more hand troll permit renewed than in 2007. Preliminary estimates indicate that 750 power troll permits and 379 hand troll permits were actually fished (Table 4). This represents a less than $1 \%$ increase in power troll effort and a $0.8 \%$ decrease in hand troll effort when compared to the 2007 season. Power troll participation did not change (Table 4) overall but the winter fishery participation decreased by 17 permits fished when compared to 2007 (Table 5).
The Chinook salmon general summer fishery was open for 11 days, with 5,299 boat-days of Chinook salmon retention. The Chinook salmon non-retention effort was estimated at 16,095 boat days (Table 6; Figure 8). Effort data was derived from dockside interviews of trolling vessels in conjunction with harvest and effort data from troll fish tickets.

## Chinook Salmon Fishery

For the 2008 season, the troll harvest of Chinook salmon was managed to: 1) comply with the June 1999 PSTA, 2) continue the Southeast Alaska natural Chinook conservation program, 3) provide maximum harvest of Alaska hatchery-produced Chinook, 4) minimize incidental mortality during Chinook non-retention periods by closing areas of high Chinook salmon abundance, and 5) to comply with terms of the incidental take permit issued by the National Marine Fisheries Service (NMFS). Alaska's all-gear quota was set at a harvest rate based on a
preseason abundance estimate. The 2008 Chinook fishery was managed to achieve an all-gear harvest of 169,950 treaty ${ }^{1}$ Chinook salmon.

The 2008 total all-gear (troll, purse seine, drift gillnet, and set gillnet, Annette Island, and recreational fisheries) Chinook salmon harvest was 236,439 fish, of which 164,108 were treaty fish. Trollers harvested 151,906 Chinook salmon of which 125,772 were treaty fish. Purse seiners harvested 15,554 Chinook salmon of which 3,451 were treaty fish. The drift gillnet fleet harvested 29,764 Chinook salmon, of which 8,379 were treaty fish. (Troll, purse seine and drift gillnet harvests include terminal and Annette Island harvests). The Yakutat set gillnet fleet harvested 844 Chinook salmon, all of which were treaty fish. Recreational fisheries (including charter fishers) harvested 38,371 Chinook salmon, of which 25,662 were treaty fish. The combined Alaska hatchery Chinook salmon and wild terminal exclusion contribution to all the fisheries was estimated at 82,258 of which 9,927 counted towards the treaty quota (Tables 12 and 13).

## Winter Fishery

The 2008 winter troll fishery began October 11, 2007 and continued through April 30, 2008. A total of 467 vessels participated in the 2008 winter fishery, with a harvest total of 21,825 Chinook salmon which represents $15 \%$ of the 2008 total troll Chinook salmon harvest (Tables 5 and 14 , Figure 9). The harvest decreased by $53.5 \%$ and the catch per landing decreased by $45 \%$ when compared to the 2007 season. The 2008 harvest was also $42 \%$ below the 1985 to 2007 average (Table 14; Figure 10). This was the second time out of the past 5 years that the winter season was not closed due to the harvest reaching the GHL prior to April 30. The low harvest and catch rate was likely due to both reduced non-Alaska hatchery abundance, as compared to the past several years, as well as significant bad weather conditions that kept vessels tied up for much of the season. This was reflected in the $7.2 \%$ drop in vessels fishing compared to the 2007 season.

## Spring Fishery

A total of 575 vessels participated in the 2008 spring fisheries (non-terminal), with a harvest of 36,620 Chinook, 24 sockeye, 1,663 coho, 524 pink and 329 chum salmon (Tables 5 and 15). The Chinook salmon harvest was approximately 11,900 fish fewer than the 2007 harvest, but the Alaska hatchery contribution increased from 38\% to $48 \%$ (Table 16). The 2008 total Spring Fishery harvest was the $6^{\text {th }}$ highest on record, while the Alaska hatchery harvest was the $4^{\text {th }}$ highest on record. The largest Chinook salmon harvests were in the Sitka Sound, Tebenkof Bay, Chatham Strait and Ketchikan areas (Table 15). Terminal area harvests taken in the spring and summer fisheries included 4,492 Chinook, 1 sockeye, 19,303 coho, 1,043 pink salmon and 538 chum salmon. The majority ( $60 \%$ ) of the Chinook were caught in the Silver Bay Special Harvest Area. A total of 24 spring areas and 5 terminal fisheries targeting Chinook salmon were open during 2008 (Figure 11).

[^0]The Spring Fishery targets Alaska hatchery Chinook salmon, except for the Cross Sound fishery, which targets chum and pink salmon. Spring fisheries occur near the Little Port Walter Hatchery (NMFS), Whitman Lake Hatchery, Crystal Lake Hatchery, and Anita Bay release sites (Southern Southeast Regional Aquaculture Association (SSRAA)), Medvejie and Hidden Falls Hatcheries (Northern Southeast Aquaculture Association, (NSRAA)).
The general spring troll fisheries (formerly referred to as experimental fisheries) were opened on May 1, and terminal areas were opened in accordance with the fishing schedules provided for in the Terminal Harvest Area (THA) management plans and to provide for private non-profit hatchery (PNP) cost recovery harvests. In general, spring fishing areas were initially opened by emergency order for 2 days per week (Monday-Tuesday). Some of the more remote areas were initially opened for slightly longer periods in order to attract trollers to these areas so that larger samples could be obtained and more precise estimates made of Alaska hatchery contributions to these areas. ADF\&G personnel examined fish deliveries, and the heads of adipose fin-clipped fish were shipped to the state tag lab in Juneau. The Spring Fishery areas that opened on May 1 "Until Further Notice", rather than on a weekly schedule, were areas that had historically high Alaska hatchery contribution. Coded wire tag data, provided by the tag lab, was used in season to estimate the Alaska hatchery contribution to the harvest in each area. Fishing time for the following week was determined using this information in combination with historic harvest timing information in each area. Fishing time was extended or curtailed during the week by emergency order as more tag data and harvest information became available.

Non-Alaska hatchery fish (Treaty fish) are counted towards the season Treaty quota of Chinook salmon under the Pacific Salmon Treaty, but most of the Alaska hatchery fish are not. The spring troll and terminal troll fisheries target Alaska hatchery Chinook salmon, but Treaty Chinook salmon are also harvested. The guideline limits of Treaty fish that may be harvested in each spring fishing area as follows:

| Alaska Hatchery Contribution To The Harvest | Treaty Fish Limit |
| :---: | :---: |
| Less than $25 \%$ | 1,000 |
| At least $25 \%$ and less than $35 \%$ | 2,000 |
| At least $35 \%$ and less than $50 \%$ | 3,000 |
| At least $50 \%$ and less than $66 \%$ | 5,000 |
| $66 \%$ or more | no limit |

## Districts 8 And 11 Transboundary Rivers Directed Chinook Salmon Fisheries

An agreement was approved between the United States and Canada during the Pacific Salmon Commission meeting held in February, 2005. This agreement allows directed commercial and sport fisheries on Chinook salmon returning to the Taku and Stikine Rivers. As a result of this agreement and new management plans adopted by the Alaska Board of Fisheries in January of 2006, troll fisheries were allowed in Districts 8 and 11 as follows:

## District 8

The preseason Chinook salmon return forecast for the Stikine River was 46,100 large fish. The resulting U.S. allowable commercial catch in District 8 (troll + drift gillnet + sport fish) at this level is 12,040 large ( $\geq 28^{\prime \prime}$ ) Stikine king salmon. Whenever a directed Stikine River Chinook salmon fishery is allowed, the provisions of 5 AAC 29.090 MANAGEMENT OF THE SPRING SALMON TROLL FISHERIES are not in effect and District 8 will be managed based on the
abundance of Stikine River Chinook salmon, in accordance with the provisions of 5 AAC 29.095. DISTRICT 8 CHINOOK SALMON MANAGEMENT PLAN.

In 2008, 92 trollers caught 1,697 Chinook salmon; approximately 1,295 of the Chinook salmon were of Stikine River origin.

## District 11

No directed Chinook salmon troll fishery was allowed District 11 this season. The preseason Chinook salmon return forecast for the Taku River was 39,400 large fish ( $\geq 28$ "). At this level of return, no fish are available for a U.S. allowable catch.

## General Summer Chinook Fishery

The all-gear harvest quota for Southeast Alaska was set at 169,950 Treaty Chinook salmon for the 2008 season. Under the current BOF commercial fisheries plan, the troll and sport fisheries divide the treaty quota in an $80 / 20$ split, after 1,000 , plus $7.2 \%$ of the treaty Chinook salmon quota are subtracted from the quota for the commercial net fisheries [5 AAC 29.060(b)].

In 2008, ADF\&G received the preseason abundance index of 1.07 at the end of March, which translated to an all-gear quota under the PSTA of 169,950 fish. The purse seine fleet was allocated $7,310(4.3 \%)$ fish, the drift gillnet fleet $4,930(2.9 \%)$ fish, and the set gillnet fleet 1,000 fish. The remainder of 156,720 fish was then initially divided between the troll and sport fisheries in an $80 / 20$ split, which translated to 125,370 fish to the troll fishery, and 31,350 fish to the sport fishery.
The summer troll quota is calculated by adding the winter Treaty harvest (estimated on June 20 at 18,884 fish), the spring Treaty harvest (estimated on June 20 at 18,300 fish), the pre-Treaty Alaska hatchery harvest ( 3,700 fish), and a statistical risk factor surrounding the Alaska hatchery contribution estimate of 1,000 fish, and subtracting the catch of Transboundary River fish above the base period catch (estimated on June 20 at 1,000 fish). The resultant sum is then subtracted from the troll allocation. This resulted in an initial estimate of 84,500 Treaty fish for the general summer quota.

According to 5 AAC 29.100, MANAGEMENT OF THE SUMMER SALMON TROLL FISHERIES, $70 \%$ of the summer troll quota is to be taken in the first opening beginning July 1, and the remaining $30 \%$ harvested following any closure for coho salmon management in August. The Chinook salmon target harvest for the first opening of 5 days was set at 61,000 fish, which included 3\% Alaska hatchery fish.
Based on past fishery performance at similar abundance indices, the first summer troll Chinook salmon fishery was projected to last 5 days. At this low of a harvest target, effective inseason management is not possible because the data necessary for inseason management only starts becoming useable beginning on the fifth day of the fishery. Therefore, the fishery opening length was announced on June 20 to be 5 days from July 1 through July 5. On July 4, fishing effort was estimated to be similar to the first 2007 Chinook opening at 750 vessels (and tied with 2007 for the highest since 1999). The fleet catch rate was estimated to be approximately 11,500 fish/day and the weather was good so no extension of the fishery was necessary to achieve the target harvest. The fishery was open for 5 days, from July 1 to July 5, and the fleet harvest averaged 11,981 fish per day (Table 17). The total harvest during the first summer Chinook retention period was 59,903 Chinook salmon, of which 56,941 were counted as Treaty fish (Table 12).

The first Chinook retention period closed on July 5 at 11:59 p.m. as previously announced. The actual harvest during the first Chinook opening was 59,903 Chinook (56,941 Treaty Chinook) or $68 \%$ of the final summer troll Treaty Chinook salmon quota. The actual fleet harvest rate was 11,981 Chinook/day, (Table 17).
Following the first opening, the areas of high Chinook salmon abundance (5 AAC 29.050) were closed for the remainder of the season (Figure 12). The results of the second coho assessment made on August 6, determined that an August coho closure of 5 days was necessary. Although the actual first Chinook opening harvest was 56,941 Treaty fish, at the time the harvest target for the second opening was announced, the Treaty catch was estimated to be 57,300 fish and the troll fishery was assumed to have approximately 27,200 fish left on the Treaty allocation of 125,400 Chinook salmon. Assuming a 3\% Alaska hatchery component, (5.8\% in the first retention period) the target harvest in the second opening was 28,000 Chinook salmon. The second Chinook salmon opening was announced on August 6 as 5 days, from August 16 through August 20. Due to the low target harvest for the second Chinook opening, as was also the case for the first opening, a fixed number of days for the opening was announced. On August 20, the fleet harvest rate was estimated to be between 4,600 and 4,800 Chinook per day, and that an additional day would be required to reach actual harvest target of 28,000 fish. On August 20, a news release was issued at 10:30 a.m., announcing an extension of opening for 24 hours and delaying the closure of the second Chinook salmon opening until 11:59 p.m., August 21. The actual harvest rate for the second opening was 4,831 Chinook/day (Table 17) and the Alaska hatchery composition was $1.4 \%$ so that the actual Treaty catch was 2,000 fish greater than the harvest target.

The total summer fishery Chinook salmon harvest was approximately 88,970 fish, of which approximately 3,900 fish, or $4.4 \%$, were of Alaska hatchery origin. Approximately 3,320 of these or $3.7 \%$ were counted as hatchery add-on and not counted against the Treaty quota (Table 12). The total summer Treaty harvest of Chinook was 85,650 fish, near the summer target harvest of 84,500 fish.

## Coho Salmon Fishery

Coho salmon retention began by regulation [5 AAC 29.110 (a)] on June 15, during the spring fisheries, but few were harvested until the general summer season opened on July 1. The lateJuly assessment indicated that the run was projected to be greater than the conservation threshold of 1.1 million wild coho salmon [5 AAC 29.110 (b) (1)]. Run strength initially appeared to be about average, based on power troll catch/boat/day (CPUE) through statistical week 29, which also included the first Chinook retention period. The regionwide CPUE and the CPUE in all areas except Cross Sound generally remained below average throughout the season (Figure 13).
A 5-day closure of the troll fishery was implemented from August 11 to August 15 in order to provide for adequate escapement to inside waters and to allocate between user groups. After a second assessment in early August, ADF\&G considered that additional conservation measures might be needed if catch rates remained low and few coho were reaching inside waters. The preliminary troll fishery harvest through week 31 was estimated at 550,500 coho salmon, which is above the 1971-1980 average, but below the 1987-2006 average.
The regional drift gillnet coho salmon harvest of approximately 58,300 fish through week 31 was also above both the 1971-1980 and 1987-2006 averages but below the 5 -year and 10-year averages. The Tree Point (District 1) and the Prince of Wales (District 6) drift gillnet fisheries
both exceeded the cumulative CPUE for all averages and both exceeded the catches for the 7180 and 20 -year averages, with the Prince of Wales catch being slightly below the 5-year average. Both the Taku and Lynn Canal fisheries were below all averages for catch and CPUE.
The Juneau sport fishery was below both the 1971-1980 and 1988-2007 averages throughout the season (Figure 14). The District 6 gillnet cumulative wild CPUE through week 31 is also above the 1971-1980 average, as well as the 5 -year, 10-year and 20 -year averages. Following a troll fishery closure from August 11 to August 15, the second Chinook salmon opening began on August 16.
Regionwide coho power troll catch rates remained below the 1988-2007 average for the next 4 weeks following the coho closure. The wild coho abundance, based on the statistical weeks 2731 power troll CPUE, was projected to be 2.62 million fish and was the $5^{\text {th }}$ lowest abundance estimate since 1988. Coho returns to the Taku and Chilkat River fish wheels were above average (Figures 15 and 16) as were returns to the Stikine River. The escapements to the Yakutat area systems were generally good but with some weakness in the Lost River. Regardless of the relatively good gillnet catches and escapements, based on the below average regionwide power troll CPUE and low inside sport fishery catches throughout the season, ADF\&G determined that 2008 was not a high coho abundance year. A News Release was issued on September 12 announcing that the summer season would close by regulation (5 AAC 29.110(a)) on September 20. During the past 15 years (1994-2008), the coho salmon season has been extended 8 times (Table 18). The final inseason 2008 estimated wild coho salmon abundance of 2.62 million fish ranked $21^{\text {st }}$ out of the past 25 years (1982-2007) and was $29 \%$ below average. The troll coho salmon harvest of $1,273,710$ fish was the $21^{\text {st }}$ highest in the 49 years since statehood (Table 7).

## OTHER SPECIES

A total of 1,252 sockeye, 28,151 pink, and 60,291 chum salmon were harvested during the general 2008 troll seasons (Table 7). This was the $14^{\text {th }}$ lowest sockeye harvest, the $3^{\text {rd }}$ lowest pink harvest, and the lowest chum salmon harvest in the since 1991, not including harvests in hatchery terminal areas.

Historically, chum salmon were harvested incidentally in the general summer troll fishery and were not targeted until the Cross Sound pink and chum fishery was established in 1988 as an indicator of pink and chum salmon abundance in inside waters. The troll chum harvest increased significantly in 1992, when for the first time over 1 million chum salmon returned to the NSRAA Hidden Falls hatchery, located on eastern Baranof Island. In 1993, the NSRAA Medvejie/Deep Inlet facility near Sitka saw a return of over 1.0 million chum and the troll chum salmon harvest increased to over 500,000 fish. Since that time, trollers have targeted chum and, with the exception of 1999 and 2008, the annual troll harvest of chum salmon outside of terminal harvest areas has been consistently greater than 100,000 fish (Table 7).
In 2008, trollers harvested 42,400 chum salmon in Sitka Sound in the Eastern Channel area, with peak harvests occurring during the first 2 weeks of August. Only 538 chum salmon were harvested in the Neets Bay THA due to the THA being closed to trolling from July 1 to September 30.

## Exclusive Economic Zone (EEZ) Harvests

In 2008, approximately $13 \%$ of the Chinook ( 19,796 fish) and $3.3 \%$ of the coho salmon ( 43,047 fish) harvested by the troll fishery was reported taken outside of State waters in the EEZ (Districts 150, 152, 154, 156, 157, and 189). In addition, 24 sockeye, 278 pink, and 273 chum salmon were taken in the EEZ.

## ALASKA HATCHERY PRODUCTION

## CHINOOK SALMON

Private non-profit and federal hatcheries in Southeast Alaska produce both Chinook and coho salmon that are harvested by the troll, drift gillnet, and purse seine fleets. Hatchery-produced Chinook salmon began appearing in significant numbers in troll harvests in 1980, when an estimated 5,900 fish were harvested. The peak harvest of Alaska hatchery fish occurred in 1996, when contributions were over 38,600 Chinook to the troll harvest ( $37 \%$ of the total troll Chinook salmon harvest), and over 89,000 fish to the all-gear harvest (Figure 17). Alaska hatchery contributions are generally greatest during the spring fisheries, followed by the winter and summer fisheries (Table 19). In 2008, the combined Alaska hatchery harvest and wild terminal exclusion harvest contributed about 72,331 Chinook salmon to the commercial and sport fisheries, with 31,164 fish harvested in the troll fishery and 15,556 fish in the sport fishery (Tables 12 and 20).

## Coho Salmon

Hatchery-produced coho salmon were first documented in the troll harvest in 1980. The hatchery contribution to the total coho salmon harvest has increased from less than $1 \%$ in 1980 to $26 \%$ in 2002, with Alaska hatcheries producing approximately $98 \%$ of these fish. In 2008, the hatchery coho salmon contribution was $20 \%$ of the harvest for a total contribution of 258,290 fish (Table 21; Figure 18).

## WILD STOCK ESCAPEMENT

## CHINOOK SALMON ESCAPEMENT

A 15-year Chinook salmon rebuilding program began in 1981. Since 1981, ADF\&G has annually estimated Chinook salmon escapements on 11 indicator systems. These escapements were initially measured against interim goals established prior to 1985 , which in general were set as the largest escapements seen prior to 1981. As a part of the rebuilding program, ADF\&G also conducted CWT studies and improved escapement estimation methods. The department also sampled age and sex data in the escapement in order to collect data that would, when included with escapement data, allow the use of spawner-recruit analytical methods to set Maximum Sustained Yield (MSY) escapement goals.

Establishment of MSY goals indicated that the Alsek, Situk, Unuk, and Keta rivers were within the ranges of desired escapement prior to the rebuilding program while only the Blossom River was below desired escapements. Since 1985, the Situk, Unuk, Alsek, and Stikine rivers have consistently been above the lower escapement goal range (Table 22). Of the 4 indicator systems in Behm Canal, escapements to the Unuk River have consistently been above the lower range, while Chickamin River was below the lower range for 7 years prior to 1999. The Blossom River
has been below the lower escapement goal range for 14 of the last 20 years, and the Keta River has been below for 3 of the last 20 years. The escapement goals for all of the Behm Canal stocks are now under review and may be revised within the coming year. In 2008, escapements generally increased from 2007 with only 2 of the 11 index counts below the 2007 escapement values. In summary, 10 out of the 11 systems had escapements above or within goals, with the Blossom Rivers being below goal by 5 fish.

## COHO SALMON ESCAPEMENT

Only a small percentage of the coho salmon escapements in Southeast Alaska are enumerated or surveyed because of the extremely scattered distribution of stocks and difficult conditions for observation of spawners during the fall months (Table 23). In 2008, weirs were operated on 4 systems, while foot or aerial surveys were conducted on another 28 streams. An adult tagging program has been in use since 1987 to estimate the escapement of coho salmon to the Taku River (Figure 15).
Variations in environmental conditions and run timing can cause serious problems in obtaining ground and aerial survey escapement estimates that reflect actual spawner abundance. High water events appear to trigger spawning but also adversely affect stream visibility and, therefore, make it difficult or impossible to accurately count fish. Once spawning occurs, stream life is typically very short and post-spawners are quickly removed by predators or flushed downstream by high water. Survey counts are usually higher when fall weather is dry and fish continue to accumulate in streams before spawning occurs. Low peak counts are often associated with seasons when numerous protracted freshets occur in October that bring fish to the spawning areas and then flush out the post-spawners, while at the same time severely limiting survey opportunities. Improved precision can be obtained by conducting multiple surveys throughout the fall. This is feasible for some systems such as those for the Juneau roadside streams, but is more difficult and expensive for remote streams such as the major coho salmon producing systems in southern Southeast Alaska.
Coded wire tagging (CWT) studies conducted since the early 1980s have provided annual harvest rate estimates for 4 coho salmon stocks. These stocks include Auke Creek near Juneau, the Berners River in lower Lynn Canal, Ford Arm Lake on the outer coast north of Sitka, and Hugh Smith Lake on the mainland southeast of Ketchikan (Figure 19). Fish are tagged in these systems and their contribution to the fisheries is estimated through ADF\&G's harvest sampling and CWT processing programs. Weirs are operated on the 3 lake systems to enumerate coho salmon escapements and to estimate the fraction of the returning population marked with CWTs. The Berners River escapement is intensively surveyed on foot. Samples for estimating the fraction of the returning population marked with CWTs are collected with beach seines. Escapement estimates for the Berners River are conservative, since a lower river weir is not employed, resulting in harvest rate estimates that are likely to be biased upward (Table 24).

Migrations into spawning streams generally peak in late September. Escapement goals of indicator streams are usually met, and have been exceeded in many cases in recent years (Tables 23 to 27; Figure 20). In 2008, escapements to systems in the northern inside areas were all within or above goal (Table 25).
The estimated total run of just over 14,000 fish to the Berners River was the $4^{\text {th }}$ smallest run in 26 years. However, a below-average exploitation rate of only $51 \%$ (Table 28; Figure 21) resulted in an escapement of 6,870 spawners (Figure 19) that was well within the goal range (4,000-

9,200 spawners). Although the marine survival rate of about $16 \%$ was about average (Table 2), freshwater production of only about 89,000 smolts was the lowest recorded and continued a downward trend from an average of 202,000 smolts between 1990 and 2004. Early indications are that smolt production associated with the 2009 return was even lower at about 59,000 fish.
The estimated escapement to the Chilkat River ( 57,376 spawners) was also within the goal range of $30,000-70,000$ spawners. The estimated 2008 escapement of 85,575 coho salmon to the Taku River above Canyon Island was well above the U.S. management objective threshold of 38,000 fish. Escapement counts in 3 Juneau roadside systems were within goal for Montana and Peterson Creeks and exceeded the goal for Auke Creek (Table 24).
The escapement count for 5 small streams on Baranof and Kruzof Islands totaled 1,118 spawners compared with a goal of 400 to 800 spawners. The overall escapement index of 6,790 spawners in all 7 monitored streams in the Sitka area (North-Central Outside Area), including 2 streams on Chichagof Island (Ford Arm Lake and Black River), was well above the historical (1982-2007) average of about 5,485 spawners (Table 26; Figure 20). The total escapement of 5,173 spawners to Ford Arm Lake was well above the goal range of 1,300 to 2,900 spawners.

The overall index of 18,421 spawners for 15 streams in the Ketchikan (Southern Inside) area was the highest count on record and over double the 1987-2007 average of about 9,192 spawners (Table 27; Figure 20). The total escapement of 1,741 spawners to Hugh Smith Lake was above the goal range of 500 to 1,600 spawners while the aggregate count for the other 14 streams ( 16,680 spawners) was far above the goal range of $4,250-8,500$ spawners.

## COHO SALMON EXPLOITATION RATES

Troll fishery exploitation rates estimates for 2008 were below average, overall. The 2008 average troll fishery exploitation rate of $29 \%$ for the 4 primary indicator stocks (Berners River, Auke Creek, Ford Arm Lake, and Hugh Smith Lake) was far below the long-term average of $39 \%$. (Table 28; Figure 22). Only the Auke Creek stock had at a troll exploitation that was near average (30\%). The troll exploitation rate estimate for Hugh Smith Lake (19\%) was only slightly over half the long-term average of $37 \%$ and was the second lowest rate on record next to $17 \%$ in 2002.

The average 2008 total exploitation rate by all fisheries on the 4 stocks was only $49 \%$, compared with the 1982-2007 average of $58 \%$ (Table 28; Figure 21). In the northern inside area, the Auke Creek stock was exploited at an estimated $39 \%$, down slightly from the historical average of $41 \%$. The Berners River stock was exploited at an estimated rate of $51 \%$, the $5^{\text {th }}$ lowest exploitation rate in 26 years and well below the historical average of $66 \%$. The total exploitation rate of $52 \%$ for the Hugh Smith Lake stock was also well below the 1982-2007 average of $66 \%$, which helped explain the record aggregate count of coho salmon spawners in the Ketchikan area. The all-gear exploitation rate estimate of $53 \%$ for Ford Arm Lake was below the average of $60 \%$ for that system.

## TABLES

Table 1.-All-gear Treaty Chinook salmon harvest, hatchery add-on, total harvest, Treaty quota, terminal exclusion harvest and the number of fish over or under the quota, 1985-2008.

| Year | Treaty <br> Harvest | Hatchery <br> Add-on | Terminal <br> Exclusion | Total <br> Harvest | Treaty Quota | Over/Under <br> Quota |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1985 | 268,293 | 6,246 | 0 | 274,539 | 263,000 | 5,293 |
| 1986 | 271,262 | 11,091 | 0 | 282,353 | 263,000 | 8,262 |
| 1987 | 265,323 | 17,095 | 0 | 282,418 | 263,000 | 2,323 |
| 1988 | 256,787 | 22,525 | 0 | 279,312 | 263,000 | $-6,213$ |
| 1989 | 269,522 | 21,510 | 0 | 291,032 | 263,000 | 6,522 |
| 1990 | 320,996 | 45,873 | 0 | 366,869 | 302,000 | 18,996 |
| 1991 | 297,986 | 61,476 | 0 | 359,462 | 273,000 | 24,986 |
| 1992 | 221,980 | 36,811 | 0 | 258,791 | 243,000 | $-21,020$ |
| 1993 | 271,193 | 32,910 | 0 | 304,103 | 263,000 | 8,193 |
| 1994 | 235,165 | 29,185 | 0 | 264,350 | 240,000 | $-4,835$ |
| 1995 | 176,939 | 58,800 | 0 | 235,739 | 175,000 | 1,939 |
| 1996 | 154,997 | 72,599 | 8,663 | 236,259 | $140,000-155,000$ | 0 |
| 1997 | 286,696 | 46,463 | 9,843 | 343,002 | $277,000-302,000$ | 0 |
| 1998 | 243,152 | 25,021 | 2,420 | 270,593 | 260,000 | $-16,848$ |
| 1999 | 198,842 | 47,725 | 4,453 | 251,020 | 184,200 | 14,642 |
| 2000 | 186,493 | 74,316 | 2,481 | 263,290 | 178,500 | 7,993 |
| 2001 | 186,919 | 77,287 | 1,528 | 265,734 | 250,300 | $-63,381$ |
| 2002 | 357,133 | 68,164 | 1,237 | 426,534 | 371,900 | $-14,767$ |
| 2003 | 383,299 | 57,470 | 2,446 | 443,216 | 439,613 | $-56,314$ |
| 2004 | 420,799 | 75,955 | 6,295 | 503,048 | 418,342 | 2,457 |
| 2005 | 396,634 | 65,843 | 40,280 | 502,756 | 387,400 | 9,234 |
| 2006 | 363,037 | 49,354 | 31,462 | 443,852 | 354,500 | 8,537 |
| 2007 | 330,411 | 70,187 | 9,556 | 410,154 | 259,184 | 71,227 |
| $\mathbf{2 0 0 8}$ | $\mathbf{1 6 4 , 1 0 8}$ | $\mathbf{6 5 , 4 9 0}$ | $\mathbf{6 , 8 4 1}$ | $\mathbf{2 3 6}, \mathbf{4 3 9}$ | $\mathbf{1 6 9 , 9 5 0}$ | $\mathbf{- 5 , 8 4 2}$ |
|  |  |  |  |  | $1999-2008$ Sum: | $-26,215$ |

Table 2.-Estimated marine survival rate (percent) of coho salmon smolts and pre-smolts from wild and hatchery stocks in Southeast Alaska, 1980-2008.

|  | Wild Stocks |  |  |  |  |  |  | kes | Hatchery Releases |  |  |  |  | Hatchery Remote Releases |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Auke Creek | Berners River | Berners River | Ford <br> Arm <br> Lake | Hugh Smith Lake | Taku <br> River | Deer <br> Lake | Neck <br> Lake | Hidden Falls | Medveji | DIPAC | Whitman Lake ${ }^{\text {a }}$ | Neets Bay ${ }^{\text {a }}$ | Burnett Inlet | Anita Bay |  | Deep Inlet | Nakat Inlet | $\begin{aligned} & \text { Earl } \\ & \text { West } \\ & \text { Cove } \\ & \hline \end{aligned}$ |
| Return Year | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \\ & \hline \end{aligned}$ | d | $\begin{aligned} & \frac{\pi}{6} \\ & \underset{\pi}{0} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \\ & \hline \end{aligned}$ | $\begin{aligned} & \frac{\pi}{0} \\ & \frac{0}{3} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \\ & \hline \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \stackrel{0}{3} \\ & 0 \end{aligned}$ | $$ | $\begin{aligned} & \frac{\pi}{6} \\ & \stackrel{0}{B} \\ & \hline \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{\theta}{B} \\ & \hline \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \text { O } \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \underset{E}{0} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{0}{3} \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \frac{\pi}{6} \\ & \underset{E}{0} \end{aligned}$ |
| 1980 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1981 | 9 |  |  |  |  |  |  |  |  |  |  | 4 | 8 |  |  |  |  |  |  |
| 1982 | 11 | 3 |  | 6 |  |  |  |  |  |  |  | 3 | 10 |  |  |  |  |  |  |
| 1983 | 18 | 7 |  | 10 |  |  |  |  |  |  |  | 9 | 13 |  |  |  |  |  |  |
| 1984 | 16 |  |  |  | 8 |  |  |  |  |  |  | 3 | 9 |  |  |  |  | 9 |  |
| 1985 | 25 | 6 |  | 12 | 8 |  |  |  |  |  |  | 13 | 12 |  |  |  |  |  |  |
| 1986 | 17 | 5 |  | 9 | 19 |  |  |  |  |  |  | 17 | 11 |  |  |  |  |  |  |
| 1987 | 21 | 3 |  | 4 | 11 |  | 6 |  |  |  |  | 3 | 4 |  |  |  |  | 5 | 10 |
| 1988 | 17 | 5 |  | 7 | 4 |  |  |  |  |  |  | 5 | 1 |  |  |  |  | 6 | 5 |
| 1989 | 14 | 4 |  | 13 | 10 |  | 7 |  |  |  |  | 2 | 1 |  |  |  |  | 3 | 2 |
| 1990 | 21 | 9 | 21 | 9 | 17 |  | 17 |  |  |  |  | 7 | 14 |  |  |  |  | 7 | 14 |
| 1991 | 23 |  | 25 | 11 | 17 |  | 24 |  | 16 |  | 24 | 12 | 13 |  |  |  | 10 | 14 | 12 |
| 1992 | 33 |  | 24 | 15 | 21 | 20 | 20 |  | 29 |  | 18 | 9 | 17 |  |  |  | 8 | 17 | 16 |
| 1993 | 24 |  | 15 | 22 | 13 | 14 | 13 |  | 20 | 20 | 10 | 5 | 11 |  |  |  | 16 | 11 | 12 |
| 1994 | 35 |  | 29 | 14 | 19 | 23 | 23 |  | 23 | 14 | 17 | 9 | 7 |  |  | 15 | 14 | 8 | 16 |
| 1995 | 11 |  | 16 | 6 | 14 | 12 | 13 |  | 14 | 12 | 6 | 4 | 6 |  |  | 14 | 16 | 10 | 7 |
| 1996 | 23 |  | 12 | 6 | 18 | 10 | 11 |  | 13 | 9 | 6 | 5 | 7 |  |  | 5 | 8 | 10 | 7 |
| 1997 | 19 |  | 12 | 15 | 8 | 7 | 6 |  | 6 | 3 | 5 | 8 | 5 |  |  | 1 |  | 6 | 5 |
| 1998 | 23 |  | 17 | 20 | 11 | 14 | 5 | 16 | 12 | 15 | 10 | 5 | 7 |  |  | 8 |  | 5 | 5 |
| 1999 | 19 |  | 13 | 7 | 14 | 10 | 17 | 4 | 16 | 14 | 15 | 10 | 8 | 6 |  | 7 |  | 8 | 10 |
| 2000 | 18 |  | 12 | 13 | 7 | 8 | 1 | 5 | 10 | 11 | 10 | 4 | 6 | 2 |  |  |  | 5 | 4 |
| 2001 | 28 |  | 12 | 8 | 13 | 9 | 15 | 5 | 12 | 7 | 9 | 6 | 8 | 14 |  | 2 |  | 5 | 5 |
| 2002 | 27 |  | 19 | 15 | 14 | 13 | 30 | 5 | 24 | 10 | 14 | 9 | 13 | 15 | 8 | 3 |  | 4 |  |
| 2003 | 25 |  | 19 | 17 | 14 | 9 | 6 | 6 | 10 | 14 | 10 | 8 | 10 | 13 | 9 | 2 |  | 8 |  |
| 2004 | 21 |  | 18 | 12 | 10 | 8 | 22 | 4 | 10 | 5 | 8 | 4 | 7 | 3 | 3 | 5 |  | 4 |  |
| 2005 | 16 |  | 8 | 8 | 9 | 8 | 13 | 2 | 9 | 6 | 7 | 6 | 5 | 2 | 8 | 6 | 2 | 6 |  |
| 2006 | 17 |  | 10 | 10 | 7 | 10 | 12 | 2 | 10 | 3 | 6 | 4 | 2 | 2 | 11 | 2 |  | 6 |  |
| 2007 | 12 |  | 10 | 8 | 7 | 4 | 8 | 3 | 2 | 4 | 4 | 8 | 6 | 6 | 8 |  | 4 | 9 |  |
| 2008 | 24 |  | 16 | 15 | 10 | 8 | 4 | 2 | 10 | 2 | 8 | 11 | 7 | 12 | 9 |  | 2 | 8 |  |
| Average | 20 | 5 | 16 | 11 | 12 | 11 | 13 | 5 | 14 | 9 | 10 | 7 | 8 | 8 | 8 | 6 | 9 | 8 | 9 |

Note: Wild stock survival represents survival from the time of tagging until return to the fisheries. Hatchery stock survival represents survival from the time of smolt release to return to the fisheries.
${ }^{\text {a }}$ Whitman Lake and Neets Bay returns from 1981 to 1983 represent hatchery-raised releases from wild broodstock.

Table 3.-Harvest and percent of commercially harvested coho salmon by gear type in Southeast Alaska, 1989-2008.

|  |  | ommercial | roll | Purse |  | Drift G |  | Set Gi |  | All-Ge | otal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
|  | 1989 | 1,415,512 | 65\% | 331,684 | 15\% | 252,516 | 12\% | 176,816 | 8\% | 2,181,092 | 100\% |
|  | 1990 | 1,832,604 | 67\% | 377,844 | 14\% | 372,645 | 14\% | 148,891 | 5\% | 2,738,632 | 100\% |
|  | 1991 | 1,719,060 | 59\% | 408,872 | 14\% | 595,719 | 21\% | 166,731 | 6\% | 2,898,846 | 100\% |
|  | 1992 | 1,929,899 | 56\% | 499,792 | 15\% | 696,767 | 20\% | 290,149 | 8\% | 3,424,623 | 100\% |
|  | 1993 | 2,395,711 | 67\% | 464,524 | 13\% | 431,543 | 13\% | 237,446 | 7\% | 3,556,219 | 100\% |
|  | 1994 | 3,466,782 | 63\% | 954,415 | 18\% | 735,465 | 13\% | 343,903 | 6\% | 5,525,285 | 100\% |
|  | 1995 | 1,750,221 | 56\% | 595,039 | 20\% | 446,730 | 15\% | 295,030 | 9\% | 3,129,584 | 100\% |
|  | 1996 | 1,906,740 | 64\% | 440,235 | 15\% | 398,103 | 14\% | 227,802 | 8\% | 2,986,172 | 100\% |
|  | 1997 | 1,170,460 | 64\% | 184,729 | 10\% | 149,835 | 9\% | 322,776 | 18\% | 1,838,904 | 100\% |
|  | 1998 | 1,636,707 | 59\% | 460,885 | 17\% | 436,352 | 16\% | 197,669 | 7\% | 2,750,969 | 100\% |
|  | 1999 | 2,272,619 | 69\% | 403,597 | 13\% | 391,480 | 12\% | 187,186 | 6\% | 3,276,855 | 100\% |
| $\infty$ | 2000 | 1,124,854 | 67\% | 206,601 | 12\% | 176,726 | 11\% | 170,948 | 10\% | 1,688,378 | 100\% |
| $\infty$ | 2001 | 1,843,997 | 63\% | 549,730 | 19\% | 335,301 | 11\% | 205,344 | 7\% | 2,934,372 | 100\% |
|  | 2002 | 1,310,060 | 55\% | 423,903 | 18\% | 453,622 | 19\% | 200,888 | 8\% | 2,388,473 | 100\% |
|  | 2003 | 1,220,782 | 58\% | 384,425 | 18\% | 430,902 | 20\% | 74,343 | 4\% | 2,110,452 | 100\% |
|  | 2004 | 1,915,007 | 68\% | 386,663 | 14\% | 316,589 | 11\% | 196,930 | 7\% | 2,815,188 | 100\% |
|  | 2005 | 2,036,104 | 75\% | 339,661 | 12\% | 281,418 | 10\% | 82,887 | 3\% | 2,708,296 | 100\% |
|  | 2006 | 1,361,267 | 75\% | 103,447 | 6\% | 272,112 | 15\% | 86,085 | 5\% | 1,820,657 | 100\% |
|  | 2007 | 1,376,753 | 72\% | 247,463 | 13\% | 197,083 | 10\% | 76,550 | 7\% | 1,897,833 | 100\% |
|  | 2008 | 1,273,710 | 64\% | 219,655 | 11\% | 358,657 | 18\% | 153,712 | 8\% | 2,005,734 | 100\% |
|  | 1989-2008 |  |  |  |  |  |  |  |  |  |  |
|  |  | $1,747,942$ | 64\% | 399,158 | 14\% | 386,478 | 14\% | 192,104 | 7\% | 2,734,722 | 100\% |
|  | Board of F (Established | cations | 61\% |  | 19\% |  | 13\% |  | 7\% |  | 100\% |

Note: Includes Annette Island harvests.

Table 4.-Southeast Alaska commercial troll permits renewed and fished, 1980 to 2008.

| Year | Hand Troll Permits |  | Power Troll Permits |  | Total <br> Fished |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Renewed | Fished | Renewed | Fished |  |
| 1975 | 2,087 | 1,100 | 1,078 | 760 | 1,860 |
| 1976 | 2,082 | 1,242 | 998 | 742 | 1,984 |
| 1977 | 2,951 | 1,852 | 970 | 746 | 2,598 |
| 1978 | 3,922 | 2,644 | 976 | 817 | 3,461 |
| 1979 | 3,700 | 2,195 | 978 | 813 | 3,008 |
| 1980 | 2,436 | 1,713 | 973 | 848 | 2,561 |
| 1981 | 2,048 | 1,172 | 969 | 797 | 1,969 |
| 1982 | 1,906 | 1,185 | 967 | 819 | 2,004 |
| 1983 | 2,031 | 1,016 | 967 | 820 | 1,836 |
| 1984 | 1,983 | 875 | 961 | 799 | 1,674 |
| 1985 | 1,952 | 930 | 959 | 840 | 1,770 |
| 1986 | 1,887 | 820 | 957 | 834 | 1,654 |
| 1987 | 1,820 | 777 | 956 | 832 | 1,609 |
| 1988 | 1,783 | 801 | 956 | 844 | 1,645 |
| 1989 | 1,747 | 725 | 955 | 853 | 1,578 |
| 1990 | 1,699 | 708 | 956 | 841 | 1,549 |
| 1991 | 1,643 | 703 | 958 | 855 | 1,558 |
| 1992 | 1,595 | 660 | 957 | 848 | 1,508 |
| 1993 | 1,550 | 605 | 956 | 842 | 1,447 |
| 1994 | 1,513 | 551 | 954 | 809 | 1,360 |
| 1995 | 1,479 | 461 | 954 | 820 | 1,281 |
| 1996 | 1,420 | 414 | 965 | 739 | 1,153 |
| 1997 | 1,380 | 387 | 964 | 748 | 1,135 |
| 1998 | 1,331 | 305 | 962 | 737 | 1,042 |
| 1999 | 1,155 | 332 | 927 | 724 | 1,056 |
| 2000 | 1,006 | 318 | 899 | 717 | 1,035 |
| 2001 | 1,039 | 329 | 927 | 737 | 1,066 |
| 2002 | 1,017 | 251 | 915 | 671 | 922 |
| 2003 | 909 | 257 | 883 | 639 | 896 |
| 2004 | 934 | 319 | 905 | 693 | 1,012 |
| 2005 | 937 | 349 | 922 | 720 | 1,069 |
| 2006 | 914 | 375 | 926 | 742 | 1,117 |
| 2007 | 911 | 382 | 927 | 747 | 1,129 |
| 2008 | 944 | 379 | 934 | 750 | 1,129 |

Table 5.-Number of permits fished, by gear type and fishery, 1980-2008.

| Year | Winter Fishery |  |  | Spring Fishery ${ }^{\text {a }}$ |  |  | Summer Fishery |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll Gear Type |  | Total Winter | Troll Gear Type |  | Total Spring | Troll Gear Type |  | Total Summer |
|  | Hand | Power |  | Hand | Power |  | Hand | Power |  |
| 1980 | 262 | 204 | 466 |  |  |  | 1,661 | 843 | 2,504 |
| 1981 | 183 | 165 | 348 |  |  |  | 1,135 | 791 | 1,926 |
| 1982 | 183 | 211 | 394 |  |  |  | 1,060 | 813 | 1,873 |
| 1983 | 254 | 331 | 585 |  |  |  | 923 | 805 | 1,728 |
| 1984 | 221 | 366 | 587 |  |  |  | 833 | 787 | 1,620 |
| 1985 | 196 | 303 | 499 |  |  |  | 887 | 829 | 1,716 |
| 1986 | 174 | 318 | 492 | 23 | 47 | 70 | 777 | 822 | 1,599 |
| 1987 | 195 | 319 | 514 | 36 | 69 | 105 | 732 | 825 | 1,557 |
| 1988 | 295 | 433 | 728 | 149 | 260 | 399 | 726 | 821 | 1,547 |
| 1989 | 262 | 475 | 737 | 54 | 142 | 195 | 664 | 834 | 1,498 |
| 1990 | 167 | 356 | 523 | 107 | 170 | 277 | 662 | 834 | 1,496 |
| 1991 | 182 | 383 | 565 | 76 | 169 | 245 | 670 | 849 | 1,519 |
| 1992 | 186 | 431 | 617 | 182 | 281 | 463 | 599 | 835 | 1,434 |
| 1993 | 127 | 366 | 493 | 181 | 338 | 519 | 553 | 831 | 1,384 |
| 1994 | 77 | 306 | 383 | 75 | 221 | 296 | 531 | 798 | 1,329 |
| 1995 | 71 | 227 | 298 | 110 | 276 | 386 | 422 | 809 | 1,231 |
| 1996 | 50 | 180 | 230 | 126 | 336 | 462 | 380 | 725 | 1,105 |
| 1997 | 49 | 207 | 256 | 145 | 336 | 481 | 338 | 734 | 1,072 |
| 1998 | 53 | 253 | 306 | 81 | 273 | 354 | 284 | 740 | 1,024 |
| 1999 | 53 | 233 | 286 | 83 | 253 | 336 | 307 | 718 | 1,025 |
| 2000 | 67 | 244 | 311 | 111 | 287 | 398 | 255 | 714 | 969 |
| 2001 | 80 | 242 | 322 | 122 | 321 | 443 | 252 | 711 | 963 |
| 2002 | 72 | 228 | 300 | 94 | 236 | 330 | 251 | 671 | 922 |
| 2003 | 96 | 264 | 360 | 79 | 289 | 368 | 187 | 605 | 792 |
| 2004 | 129 | 310 | 439 | 111 | 332 | 443 | 238 | 675 | 913 |
| 2005 | 142 | 302 | 444 | 125 | 374 | 499 | 283 | 702 | 985 |
| 2006 | 152 | 317 | 469 | 151 | 366 | 517 | 270 | 718 | 988 |
| 2007 | 153 | 350 | 503 | 158 | 365 | 523 | 284 | 726 | 1,010 |
| 2008 | 134 | 333 | 467 | 170 | 405 | 575 | 291 | 726 | 1,017 |

a Includes experimental and terminal fisheries; does not include permits fished in the hatchery access fisheries 1989 through 1992.

Table 6.-Number of days and dates the summer troll salmon fishery was open to Chinook retention (CR), closed to Chinook retention (Chinook non-retention or CNR), closed to all salmon species (all) and effort during CR and CNR periods, 1985-2008.

| Year | Days <br> Open | Days Closed | Open <br> Dates | $\begin{gathered} \text { CR } \\ \text { Days } \end{gathered}$ | CR Effort <br> (Boat-days) | Closed Dates | Days Closed | $\begin{aligned} & \text { CNR } \\ & \text { Days } \end{aligned}$ | CNR Effort (Boat Days) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1985 | 33.6 | 135.4 | 6/3-6/12 | 10 |  | 4/15-6/2 | 49 (all) |  |  |
|  |  |  |  |  |  | 6/13-6/30 | 18 (all) |  |  |
|  |  |  | 7/1-7/22 | 22 |  | 7/23-8/14 | 23 |  |  |
|  |  |  |  |  |  | 8/15-8/24 | 10 (all) |  |  |
|  |  |  | 8/25-8/26 | 1.6 | 30,628 | 8/26-9/20 | 25.4 |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 48.4 | 35,725 |
| 1986 | 41 | 128 | 6/20-7/15 | 26 |  | 4/15-6/19 | 66 (all) |  |  |
|  |  |  |  |  |  | 7/16-8/10 | 26 |  |  |
|  |  |  |  |  |  | 8/11-8/20 | 10 (all) |  |  |
|  |  |  | 8/21-8/26 | 6 |  | 8/27-8/31 | 5 |  |  |
|  |  |  | 9/1-9/9 | 9 | 33,079 | 9/10-9/20 | 11 |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 42 | 34,173 |
| 1987 | 23 | 146 | 6/20-7/12 | 23 | 19,077 | 4/15-6/19 | $66 \text { (all) }$ |  |  |
|  |  |  |  |  |  | $7 / 13-8 / 2$ | 21 |  |  |
|  |  |  |  |  |  | 8/3-8/12 | 10 (all) |  |  |
|  |  |  |  |  |  | 8/13-9/20 | $39$ |  |  |
|  |  |  |  |  |  | 9/21-9/30 | $10 \text { (all) }$ | 60 | 37,214 |
| 1988 | 12 | 157 | 7/1-7/12 | 12 | 9,507 | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/13-7/25 | $13$ |  |  |
|  |  |  |  |  |  | 7/26-8/4 | $10 \text { (all) }$ |  |  |
|  |  |  |  |  |  | 8/5-8/14 | 10 |  |  |
|  |  |  |  |  |  | 8/15-8/24 | 10 (all) |  |  |
|  |  |  |  |  |  | 8/25-8/31 | 7 |  |  |
|  |  |  |  |  |  | 9/1-9/3 | $3 \text { (all) }$ |  |  |
|  |  |  |  |  |  | 9/4-9/20 | $17^{\text {a }}$ |  |  |
|  |  |  |  |  |  | $9 / 21-9 / 30$ |  | 47 | 27,275 |
| 1989 | 13 | 156 | 7/1-7/13 | 13 | 9,585 | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | $7 / 14-8 / 13$ | $31$ |  |  |
|  |  |  |  |  |  | 8/14-8/23 | $10 \text { (all) }$ |  |  |
|  |  |  |  |  |  | 8/24-9/20 | 28 |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 59 | 38,404 |
| 1990 | 24 | 145 | 7/1-7/22 | 22 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/23-8/12 |  |  |  |
|  |  |  |  |  |  | 8/13-8/22 | 10 (all) |  |  |
|  |  |  | 8/23-8/24 | 2 | 17,172 | 8/25-9/20 | 27 |  |  |
|  |  |  |  |  |  |  |  | 48 | 29,525 |
| 1991 | 7.5 | 161.5 | 7/1-7/8 | 7.5 | 4,718 | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/8-8/15 | 38.5 |  |  |
|  |  |  |  |  |  | 8/16-8/25 | 10 (all) |  |  |
|  |  |  |  |  |  | 8/26-9/20 |  |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 64.5 | 32,565 |

-continued-

Table 6.-Page 2 of 3.

| Year | Days <br> Open | Days Closed | Open <br> Dates | $\begin{gathered} \text { CR } \\ \text { Days } \end{gathered}$ | CR Effort <br> (Boat-days) | Closed Dates | Days Closed | $\begin{aligned} & \text { CNR } \\ & \text { Days } \end{aligned}$ | CNR Effort <br> (Boat Days) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1992 | 4.5 | 164.5 | 7/1-7/4 | 3.5 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/4-8/12 | 39.5 |  |  |
|  |  |  |  |  |  | 8/13-8/22 | 10 (all) |  |  |
|  |  |  | 8/23 | 1 | 2,881 | 8/24-9/20 |  |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 67.5 | 36,306 |
| 1993 | 20 | 149 | 7/1-7/6 | 6 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/7-7/11 | 5 (all) |  |  |
|  |  |  |  |  |  | 7/12-8/12 | 32 |  |  |
|  |  |  |  |  |  | 8/13-8/20 | 8 (all) |  |  |
|  |  |  | 8/21-8/25 | 5 |  | 8/26-9/11 | 17 |  |  |
|  |  |  | 9/12-9/20 | 9 | 12,036 | 9/21-9/30 | 10 (all) | 49 | 30,502 |
| 1994 | 12 | 157 | 7/1-7/7 | 7 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/8-8/26 |  |  |  |
|  |  |  |  |  |  | 8/27-8/28 | $2 \text { (all) }$ |  |  |
|  |  |  | 8/29-9/2 | 5 | 6,434 | 9/3-9/30 | 28 | 78 | 35,716 |
| 1995 | 17 | 152 | 7/1-7/10 | 10 |  |  | $77 \text { (all) }$ |  |  |
|  |  |  |  |  |  | 7/11-7/29 | $19$ |  |  |
|  |  |  | 7/30-8/5 | 7 | 8,420 | 8/6-8/12 | 7 |  |  |
|  |  |  |  |  |  | 8/13-8/22 | $10 \text { (all) }$ |  |  |
|  |  |  |  |  |  | 8/23-9/30 |  | 65 | 23,435 |
| 1996 | 12 | 157 | 7/1-7/10 | 10 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | $7 / 11-8 / 13$ |  |  |  |
|  |  |  |  |  |  | 8/14-8/18 | $5 \text { (all) }$ |  |  |
|  |  |  | 8/19-8/20 | 2 | 5,282 | 8/21-9/20 | 31 |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 65 | 23,167 |
| 1997 | 21 | 148 | 7/1-7/7 | 7 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/8-8/7 |  |  |  |
|  |  |  |  |  |  | 8/8-8/17 | $10 \text { (all) }$ |  |  |
|  |  |  | 8/18-8/24 | 7 |  | 8/25-8/29 | $5$ |  |  |
|  |  |  | 8/30-9/5 | 7 | 9,126 | 9/6-9/20 | $15^{\text {b }}$ |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 51 | 17,653 |
| 1998 | 53 | 116 | 7/1-7/11 | 11 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/12-8/11 | $31$ |  |  |
|  |  |  |  |  |  | 8/12-8/19 | 8 (all) | 31 | 11,928 |
|  |  |  | 8/20-9/30 | 42 | 12,517 |  |  |  |  |
| 1999 | 11 | 158 | 7/1-7/6 | 6 |  |  | $77 \text { (all) }$ |  |  |
|  |  |  |  |  |  | 7/7-8/12 | $37$ |  |  |
|  |  |  |  |  |  |  | 5 (all) |  |  |
|  |  |  | 8/18-8/22 | 5 | 4,678 | 8/23-9/30 | 39 | 76 | 21,879 |

Table 6.-Page 3 of 3.

| Year | Days <br> Open | Days Closed | Open <br> Dates | $\begin{gathered} \text { CR } \\ \text { Days } \end{gathered}$ | CR Effort (Boat-days) | Closed Dates | $\begin{gathered} \text { Days } \\ \text { Closed } \end{gathered}$ | CNR <br> Days | CNR Effort <br> (Boat Days) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2000 | 24 | 145 | 7/1-7/5 | 5 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  | 8/11-8/12 | 2 |  | 7/6-8/10 | 36 |  |  |
|  |  |  |  |  |  | 8/13-8/22 | 10 (all) |  |  |
|  |  |  | 8/23-8/30 | 8 |  | 8/31-9/11 | 12 |  |  |
|  |  |  | 9/12-9/20 | 9 | 6,784 | 9/21-9/30 | 10 (all) | 48 | 15,422 |
| 2001 | 25 | 144 | 7/1-7/6 | 6 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/7-8/12 | 37 |  |  |
|  |  |  |  |  |  | 8/13-8/17 | 5 (all) |  |  |
|  |  |  | 8/18-9/5 | 19 | 7,364 | 9/6-9/20 | 15 |  |  |
|  |  |  |  |  |  | 9/21-9/24 | 4 (all) |  |  |
|  |  |  |  |  |  | 9/25-9/30 | 6 | 58 | 15,434 |
| 2002 | 40 | 129 | 7/1-7/18 | 18 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/19-8/9 | 22 |  |  |
|  |  |  |  |  |  | 8/10-8/11 | 2 (all) |  |  |
|  |  |  | 8/12-9/2 | 22 | 10,482 | 9/3-9/30 | 28 | 50 | 10,214 |
| 2003 | 39 | 130 | 7/1-8/8 | 39 | 10,743 | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 8/9-9/30 | 53 | 53 | 9,228 |
| 2004 | 19 | 150 | 7/1-7/15 | 15 |  | 4/15-6/30 | 77 (all) |  |  |
|  |  |  |  |  |  | 7/16-8/9 | 25 |  |  |
|  |  |  |  |  |  | 8/10-8/11 | 2 (all) |  |  |
|  |  |  | 8/12-8/15 | 4 | 5,888 | 8/16-9/30 | 46 | 71 | 17,434 |
| 2005 | 29.5 | 144.5 | 7/1-7/17 | 17 |  | 4/10-6/30 | 82 (all) |  |  |
|  |  |  |  |  |  | 7/18-8/9 | 23 |  |  |
|  |  |  |  |  |  | 8/10-8/13 | 4 (all) |  |  |
|  |  |  | 8/14-8/20 | 6.5 |  | 8/20-9/14 | 25.5 |  |  |
|  |  |  | 9/15-9/20 | 6 | 9,715 | 9/21-9/30 | 10 (all) | 48.5 | 13,379 |
| 2006 | 22 | 140 | 7/1-7/12 | 12 |  | 4/22-6/30 | 70 (all) |  |  |
|  |  |  |  |  |  | 7/13-8/8 | 27 |  |  |
|  |  |  |  |  |  | 8/9-8/12 | 4 (all) |  |  |
|  |  |  | 8/13-8/22 | 10 | 9,001 | 8/23-8/27 | 5 (all) |  |  |
|  |  |  |  |  |  | 8/28-9/30 | 34 | 61 | 14,536 |
| 2007 | 26 | 127 | 7/1-7/20 | 20 |  | 5/1-6/30 |  |  |  |
|  |  |  |  |  |  | 7/21-8/10 | $21$ |  |  |
|  |  |  |  |  |  | 8/11-8/15 | 5 (all) |  |  |
|  |  |  | 8/16-8/21 | 6 | 9,218 | 8/22-9/20 | 30 |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 51 | 14,360 |
| 2008 | 11 | 142 | 7/1-7/5 | 5 |  | 5/1-6/30 | 61 (all) |  |  |
|  |  |  |  |  |  | 7/6-8/10 | 36 |  |  |
|  |  |  |  |  |  | 8/11-8/15 | 5 (all) |  |  |
|  |  |  | 8/16-21 | 6 | 5,299 | 8/22-9/20 | 30 |  |  |
|  |  |  |  |  |  | 9/21-9/30 | 10 (all) | 66 | 16,095 |

[^1]Table 7.-Southeast Alaska annual commercial troll salmon harvest in numbers of fish by species, 1960-2008.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1960 | 282,404 | 939 | 396,211 | 25,563 | 2,453 | 707,570 |
| 1961 | 204,289 | 1,264 | 399,932 | 19,303 | 2,679 | 627,467 |
| 1962 | 173,597 | 1,181 | 643,740 | 75,083 | 2,676 | 896,277 |
| 1963 | 243,679 | 2,014 | 693,050 | 106,939 | 6,230 | 1,051,912 |
| 1964 | 329,461 | 1,004 | 730,766 | 124,566 | 2,576 | 1,188,373 |
| 1965 | 258,902 | 1,872 | 695,887 | 81,127 | 6,359 | 1,044,147 |
| 1966 | 282,083 | 679 | 528,621 | 63,623 | 5,203 | 880,209 |
| 1967 | 274,678 | 157 | 443,677 | 57,372 | 7,051 | 782,935 |
| 1968 | 304,455 | 574 | 779,500 | 126,271 | 2,791 | 1,213,591 |
| 1969 | 290,168 | 444 | 388,443 | 83,727 | 1,708 | 764,490 |
| 1970 | 304,602 | 477 | 267,647 | 70,072 | 3,235 | 646,033 |
| 1971 | 311,439 | 929 | 391,279 | 104,557 | 7,602 | 815,806 |
| 1972 | 242,282 | 1,060 | 791,941 | 166,771 | 11,634 | 1,213,688 |
| 1973 | 307,806 | 1,222 | 540,125 | 134,586 | 10,460 | 994,199 |
| 1974 | 322,101 | 2,603 | 845,109 | 263,083 | 13,818 | 1,446,714 |
| 1975 | 287,342 | 1,098 | 214,170 | 76,882 | 2,784 | 582,276 |
| 1976 | 231,239 | 1,266 | 524,762 | 193,786 | 4,251 | 955,304 |
| 1977 | 271,735 | 5,701 | 506,845 | 281,244 | 11,617 | 1,077,142 |
| 1978 | 375,433 | 2,804 | 1,100,902 | 617,633 | 26,193 | 2,122,965 |
| 1979 | 334,317 | 7,018 | 918,842 | 629,130 | 24,661 | 1,913,968 |
| 1980 | 303,643 | 2,921 | 696,391 | 266,885 | 12,048 | 1,281,888 |
| 1981 | 248,782 | 7,476 | 860,792 | 579,524 | 8,680 | 1,705,254 |
| 1982 | 241,938 | 2,365 | 1,316,119 | 503,578 | 5,700 | 2,069,700 |
| 1983 | 269,821 | 8,018 | 1,276,363 | 498,245 | 20,309 | 2,072,756 |
| 1984 | 235,622 | 9,559 | 1,132,644 | 572,578 | 28,052 | 1,978,455 |
| 1985 | 215,811 | 7,818 | 1,599,777 | 963,737 | 52,787 | 2,839,930 |
| 1986 | 237,703 | 6,891 | 2,127,334 | 181,677 | 51,389 | 2,604,994 |
| 1987 | 242,562 | 9,727 | 1,041,059 | 487,133 | 12,846 | 1,793,327 |
| 1988 | 231,364 | 9,339 | 500,218 | 519,390 | 88,261 | 1,348,572 |
| 1989 | 235,716 | 20,173 | 1,415,517 | 1,771,249 | 68,988 | 3,511,643 |
| 1990 | 287,939 | 9,175 | 1,832,393 | 771,665 | 62,818 | 2,963,990 |
| 1991 | 264,106 | 9,806 | 1,718,318 | 427,326 | 28,438 | 2,447,994 |
| 1992 | 183,759 | 22,830 | 1,929,013 | 673,805 | 85,013 | 2,894,420 |
| 1993 | 226,866 | 25,336 | 2,395,505 | 902,758 | 525,138 | 4,075,603 |
| 1994 | 186,331 | 21,761 | 3,461,607 | 942,747 | 330,376 | 4,942,822 |
| 1995 | 138,117 | 27,323 | 1,750,124 | 714,312 | 277,453 | 2,907,329 |
| 1996 | 141,452 | 11,024 | 1,906,690 | 812,899 | 406,244 | 3,278,309 |
| 1997 | 246,409 | 39,428 | 1,170,462 | 545,308 | 312,042 | 2,313,649 |
| 1998 | 192,066 | 6,487 | 1,636,479 | 261,093 | 117,642 | 2,213,767 |
| 1999 | 146,219 | 5,725 | 2,272,619 | 540,670 | 74,672 | 3,039,905 |
| 2000 | 158,717 | 4,467 | 1,124,854 | 187,364 | 478,144 | 1,953,546 |
| 2001 | 153,280 | 8,989 | 1,843,997 | 258,943 | 467,830 | 2,733,039 |
| 2002 | 325,308 | 1,247 | 1,310,060 | 86,399 | 117,672 | 1,840,686 |
| 2003 | 330,692 | 4,572 | 1,220,782 | 159,394 | 286,410 | 2,001,850 |
| 2004 | 354,664 | 5,010 | 1,915,007 | 57,315 | 161,070 | 2,493,066 |
| 2005 | 338,442 | 13,276 | 2,035,783 | 109,635 | 165,393 | 2,662,529 |
| 2006 | 282,307 | 8,004 | 1,360,256 | 60,114 | 143,030 | 1,853,711 |
| 2007 | 268,147 | 6,440 | 1,376,737 | 104,377 | 185,800 | 1,941,517 |
| 2008 | 151,906 | 1,252 | 1,273,710 | 28,151 | 60,291 | 1,515,310 |
| 1960-69 Average | 264,372 | 1,013 | 569,983 | 76,357 | 3,973 | 915,697 |
| 1970-79 Average | 298,830 | 2,418 | 610,162 | 253,774 | 11,626 | 1,176,810 |
| 1980-89 Average | 246,296 | 8,429 | 1,196,621 | 634,400 | 34,906 | 2,120,652 |
| 1990-99 Average | 201,326 | 17,890 | 2,008,163 | 659,258 | 221,984 | 3,107,779 |
| 2002-08 Average | 262,607 | 5,917 | 1,495,732 | 116,855 | 229,516 | 2,110,584 |

Note: Only Chinook salmon statistics include hatchery terminal area harvest. Harvest data for all species includes Annette Island harvest. Data is by calendar year from 1960 to 1978, from January 1 to September 30 for 1979, and by troll season (October 1-September 30) from 1980 to 2008.

Table 8.-Southeast Alaska commercial troll salmon harvest in numbers of fish by species, by statistical week, for the 2008 troll season.

| Year | Week | Week of | King | Sockeye | Coho | Pink | Chum | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2007 | 41 | 7-Oct | 224 | 0 | 0 | 0 | 0 | 224 |
|  | 42 | 14-Oct | 1,902 | 0 | 0 | 0 | 0 | 1,902 |
|  | 43 | 21-Oct | 546 | 0 | 0 | 0 | 0 | 546 |
|  | 44 | 28-Oct | 292 | 0 | 0 | 0 | 0 | 292 |
|  | 45 | 4-Nov | 645 | 0 | 0 | 0 | 0 | 645 |
|  | 46 | 11-Nov | 376 | 0 | 0 | 0 | 0 | 376 |
|  | 47 | 18-Nov | 360 | 0 | 0 | 0 | 0 | 360 |
|  | 48 | 25-Nov | 324 | 0 | 0 | 0 | 0 | 324 |
|  | 49 | 2-Dec | 182 | 0 | 0 | 0 | 0 | 182 |
|  | 50 | $9-\mathrm{Dec}$ | 155 | 0 | 0 | 0 | 0 | 155 |
|  | 51 | 16-Dec | 102 | 0 | 0 | 0 | 0 | 102 |
|  | 52 | 23-Dec | 29 | 0 | 0 | 0 | 0 | 29 |
|  | 53 | 30-Dec | 32 | 0 | 0 | 0 | 0 | 32 |
| 2008 | 1 | 1-Jan | 94 | 0 | 0 | 0 | 0 | 94 |
|  | 2 | 6 -Jan | 256 | 0 | 0 | 0 | 0 | 256 |
|  | 3 | 13-Jan | 191 | 0 | 0 | 0 | 0 | 191 |
|  | 4 | 20-Jan | 430 | 0 | 0 | 0 | 0 | 430 |
|  | 5 | 27-Jan | 85 | 0 | 0 | 0 | 0 | 85 |
|  | 6 | 3-Feb | 174 | 0 | 0 | 0 | 0 | 174 |
|  | 7 | $10-\mathrm{Feb}$ | 149 | 0 | 0 | 0 | 0 | 149 |
|  | 8 | 17-Feb | 174 | 0 | 0 | 0 | 0 | 174 |
|  | 9 | 24-Feb | 595 | 0 | 0 | 0 | 0 | 595 |
|  | 10 | 2-Mar | 262 | 0 | 0 | 0 | 0 | 262 |
|  | 11 | 9-Mar | 716 | 0 | 0 | 0 | 0 | 716 |
|  | 12 | 16-Mar | 437 | 0 | 0 | 0 | 0 | 437 |
|  | 13 | 23-Mar | 1,297 | 0 | 0 | 0 | 0 | 1,297 |
|  | 14 | 30-Mar | 1,694 | 0 | 0 | 0 | 0 | 1,694 |
|  | 15 | 6-Apr | 1,526 | 0 | 0 | 0 | 0 | 1,526 |
|  | 16 | $13-\mathrm{Apr}$ | 2,141 | 0 | 0 | 0 | 6 | 2,147 |
|  | 17 | $20-\mathrm{Apr}$ | 4,311 | 0 | 0 | 0 | 6 | 4,317 |
|  | 18 | 27-Apr | 2,240 | 0 | 0 | 0 | 0 | 2,240 |
|  | 19 | 4-May | 1,224 | 0 | 0 | 0 | 0 | 1,224 |
|  | 20 | 11-May | 1,516 | 0 | 0 | 0 | 0 | 1,516 |
|  | 21 | 18-May | 4,081 | 0 | 0 | 0 | 1 | 4,082 |
|  | 22 | 25-May | 4,184 | 0 | 0 | 0 | 4 | 4,188 |
|  | 23 | 1-Jun | 5,213 | 0 | 0 | 0 | 6 | 5,219 |
|  | 24 | 8-Jun | 7,595 | 0 | 0 | 4 | 2 | 7,601 |
|  | 25 | 15-Jun | 8,070 | 12 | 421 | 321 | 122 | 8,946 |
|  | 26 | 22-Jun | 3,858 | 12 | 980 | 197 | 176 | 5,223 |
|  | 27 | 29-Jun | 60,707 | 221 | 45,256 | 1,673 | 797 | 108,654 |
|  | 28 | 6-Jul | 12 | 70 | 25,849 | 1,831 | 383 | 28,145 |
|  | 29 | 13-Jul | 8 | 138 | 117,875 | 2,837 | 268 | 121,126 |
|  | 30 | 20-Jul | 0 | 155 | 137,080 | 2,434 | 1,511 | 141,180 |
|  | 31 | 27-Jul | 1 | 89 | 177,303 | 3,770 | 5,063 | 186,226 |
|  | 32 | 3-Aug | 0 | 78 | 185,184 | 8,556 | 37,354 | 231,172 |
|  | 33 | 10-Aug | 600 | 26 | 61,416 | 2,447 | 7,527 | 72,016 |
|  | 34 | 17-Aug | 28,403 | 351 | 162,681 | 2,699 | 6,297 | 200,431 |
|  | 35 | 24-Aug | 0 | 44 | 103,422 | 1,012 | 116 | 104,594 |
|  | 36 | 31-Aug | 0 | 32 | 118,252 | 261 | 207 | 118,752 |
|  | 37 | 7-Sep | 0 | 15 | 94,147 | 95 | 403 | 94,660 |
|  | 38 | 14-Sep | 0 | 9 | 43,844 | 12 | 54 | 43,919 |
| Winter fishery subtotal |  |  | 21,825 | 0 | 0 | 0 | 0 | 21,825 |
| Spring fishery subtotal |  |  | 36,620 | 24 | 1,663 | 524 | 329 | 39,160 |
| Summer fishery subtotal |  |  | 88,969 | 1,228 | 1,272,047 | 27,627 | 59,962 | 1,449,833 |
| Hatchery terminal area subtotal |  |  | 4,492 | 1 | 19,303 | 1,043 | 538 | 25,377 |
| Grand Total: |  |  | 151,906 | 1,253 | 1,293,013 | 29,194 | 60,829 | 1,536,195 |

Note: Weekly totals do not include hatchery terminal area harvests and do include Annette Island troll harvests.

Table 9.-Average troll coho salmon dressed weight by week and weighted annual average, 1994-2008.

| Week of | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | $\begin{gathered} \text { 2003-2007 } \\ \text { Average } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 1998-2007 } \\ \text { Average } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 1 | 6.3 | 5.6 | 5.9 | 5.3 | 6.6 | 4.7 | 5.7 | 5.7 | 5.9 | 5.5 | 5.7 | 5.2 | 5.3 | 4.9 | 6.3 | 5.3 | 5.5 |
| July 8 | 6.2 | 5.6 | 5.9 | 5.2 | 6.8 | 4.7 | 5.7 | 5.6 | 6.2 | 5.5 | 6.1 | 5.2 | 5.6 | 5.1 | 6.5 | 5.5 | 5.6 |
| July 15 | 6.3 | 6.0 | 6.0 | 5.4 | 6.8 | 4.8 | 6.0 | 5.6 | 6.5 | 5.6 | 6.1 | 5.2 | 5.6 | 5.3 | 6.7 | 5.6 | 5.8 |
| July 22 | 6.4 | 6.4 | 6.3 | 5.6 | 6.9 | 5.0 | 6.1 | 5.7 | 6.4 | 5.8 | 6.1 | 5.3 | 5.6 | 5.3 | 6.9 | 5.6 | 5.8 |
| July 29 | 6.6 | 6.6 | 6.5 | 5.8 | 7.0 | 5.2 | 6.3 | 6.0 | 6.5 | 6.0 | 6.0 | 5.2 | 5.7 | 5.4 | 6.9 | 5.7 | 5.9 |
| Aug 5 | 7.0 | 7.0 | 6.7 | 6.0 | 7.1 | 5.4 | 6.5 | 6.1 | 6.8 | 6.2 | 6.2 | 5.3 | 5.9 | 5.5 | 7.1 | 5.8 | 6.1 |
| Aug 12 | 7.3 | 7.1 | 6.8 |  | 7.2 | 5.4 | 6.6 | 6.2 | 7.0 | 6.3 | 6.4 | 5.5 | 6.1 | 5.9 | 7.4 | 6.0 | 6.3 |
| Aug 19 | 7.7 | 7.7 | 7.3 | 7.0 | 7.7 | 5.8 |  | 6.6 | 7.1 | 6.6 | 6.8 | 6.0 | 6.6 | 5.9 | 8.2 | 6.4 | 6.6 |
| Aug 26 | 7.9 | 7.8 | 7.5 | 7.6 | 7.8 | 6.0 | 7.5 | 6.6 | 7.6 | 6.9 | 7.0 | 6.2 | 6.8 | 6.2 | 8.4 | 6.6 | 6.9 |
| Sept 2 | 8.3 | 8.2 | 7.8 | 8.2 | 8.5 | 6.1 | 8.0 | 6.8 | 7.8 | 7.2 | 7.4 | 6.3 | 7.4 | 6.7 | 8.8 | 7.0 | 7.2 |
| Sept 9 | 8.6 | 8.4 | 8.1 | 8.8 | 8.8 | 6.4 | 8.2 | 7.2 | 8.0 | 7.4 | 7.7 | 6.7 | 7.7 | 7.2 | 9.0 | 7.3 | 7.5 |
| Sept16 | 8.6 | 8.7 | 8.0 | 8.9 | 9.2 | 6.6 | 8.4 | 7.7 | 8.1 | 7.6 | 7.8 | 6.9 | 7.9 | 7.4 | 9.1 | 7.5 | 7.8 |
| Weighted Average: | 7.2 | 7.0 | 6.8 | 6.5 | 7.4 | 5.4 | 6.5 | 6.1 | 6.9 | 6.5 | 6.6 | 5.7 | 6.4 | 5.8 | 7.6 | 6.2 | 6.3 |
| Troll Harvest (millions) | 3.5 | 1.8 | 1.9 | 1.2 | 1.6 | 2.3 | 1.1 | 1.8 | 1.3 | 1.2 | 1.9 | 2.1 | 1.3 | 1.4 | 1.3 | 1.6 | 1.6 |

Table 10.-Southeast Alaska annual commercial hand troll salmon harvest in numbers of fish by species, 1975-2008.

| Year | Chinook ${ }^{\text {a }}$ | Sockeye | Coho | Pink | Chum | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1975 | 27,995 | 96 | 40,922 | 28,853 | 541 | 98,407 |
| 1976 | 26,294 | 516 | 88,733 | 44,054 | 2,061 | 161,658 |
| 1977 | 33,176 | 1,740 | 155,813 | 116,776 | 4,143 | 311,648 |
| 1978 | 54,383 | 1,155 | 378,927 | 243,469 | 9,573 | 687,507 |
| 1979 | 57,494 | 2,448 | 244,815 | 281,711 | 7,926 | 594,394 |
| 1980 | 52,025 | 1,257 | 179,122 | 111,548 | 4,532 | 348,484 |
| 1981 | 33,892 | 2,171 | 181,422 | 173,517 | 2,582 | 393,584 |
| 1982 | 36,677 | 513 | 260,747 | 132,135 | 1,187 | 431,259 |
| 1983 | 38,635 | 1,574 | 235,685 | 136,656 | 2,777 | 415,327 |
| 1984 | 34,287 | 1,982 | 178,407 | 151,231 | 4,894 | 370,801 |
| 1985 | 33,136 | 1,697 | 260,592 | 251,645 | 9,746 | 556,816 |
| 1986 | 29,714 | 810 | 338,312 | 39,875 | 6,687 | 415,398 |
| 1987 | 29,217 | 2,131 | 183,229 | 135,102 | 3,016 | 352,695 |
| 1988 | 33,107 | 1,894 | 92,326 | 147,609 | 14,536 | 289,472 |
| 1989 | 28,667 | 2,442 | 220,262 | 301,413 | 6,578 | 559,362 |
| 1990 | 39,179 | 1,245 | 273,359 | 154,798 | 6,489 | 475,070 |
| 1991 | 39,987 | 1,073 | 238,456 | 72,343 | 3,839 | 355,698 |
| 1992 | 25,548 | 1,904 | 249,487 | 95,481 | 6,023 | 378,443 |
| 1993 | 23,887 | 1,668 | 315,521 | 101,752 | 34,449 | 477,277 |
| 1994 | 14,873 | 1,878 | 435,947 | 56,958 | 32,061 | 541,717 |
| 1995 | 13,412 | 1,822 | 145,094 | 63,877 | 21,282 | 245,487 |
| 1996 | 11,581 | 698 | 201,376 | 31,748 | 53,646 | 299,049 |
| 1997 | 14,850 | 1,207 | 104,527 | 35,104 | 20,042 | 175,730 |
| 1998 | 9,014 | 271 | 119,576 | 11,782 | 2,051 | 142,694 |
| 1999 | 6,010 | 286 | 180,072 | 12,214 | 583 | 199,165 |
| 2000 | 8,678 | 126 | 67,499 | 5,386 | 6,427 | 88,116 |
| 2001 | 9,811 | 301 | 111,059 | 6,267 | 12,480 | 139,918 |
| 2002 | 11,460 | 33 | 77,811 | 2,753 | 578 | 92,635 |
| 2003 | 13,510 | 134 | 80,882 | 3,562 | 3,095 | 101,183 |
| 2004 | 18,864 | 148 | 108,624 | 2,403 | 861 | 130,900 |
| 2005 | 16,847 | 340 | 143,095 | 6,203 | 418 | 166,903 |
| 2006 | 16,366 | 242 | 74,412 | 3,429 | 437 | 94,242 |
| 2007 | 18,258 | 220 | 91499 | 4,196 | 1,385 | 115,558 |
| $\begin{gathered} \text { Average } \\ 1975-2007 \end{gathered}$ | 26,086 | 1,092 | 183,564 | 89,874 | 8,695 | 309,291 |
| 2008 | 15,280 | 155 | 82,722 | 1,571 | 511 | 100,239 |

Note: Data by calendar year from 1975 to 1978, from Jan. 1 to Sept. 30 for 1979, and by troll season (Oct. 1 Sept. 30) from 1980 to 2008.
Note: Beginning in 1975 hand and power troll harvest were reported separately.
Note: Harvest for all species includes Annette Island Reserve.
a Only Chinook salmon catch statistics include hatchery terminal area catches.

Table 11.-Southeast Alaska annual commercial power troll salmon harvest in numbers of fish by species, 1975-2008.

| Year | Chinook ${ }^{\text {a }}$ | Sockeye | Coho | Pink | Chum | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1975 | 259,347 | 1,002 | 173,248 | 48,029 | 2,243 | 483,869 |
| 1976 | 204,945 | 750 | 436,029 | 149,732 | 2,190 | 793,646 |
| 1977 | 238,559 | 3,961 | 351,032 | 164,468 | 7,474 | 765,494 |
| 1978 | 321,050 | 1,649 | 721,975 | 374,164 | 16,620 | 1,435,458 |
| 1979 | 276,823 | 4,570 | 674,027 | 347,419 | 16,735 | 1,319,574 |
| 1980 | 251,849 | 1,664 | 517,269 | 155,337 | 7,516 | 933,635 |
| 1981 | 214,899 | 5,305 | 679,370 | 406,007 | 6,098 | 1,311,679 |
| 1982 | 205,638 | 1,852 | 1,055,372 | 371,443 | 4,513 | 1,638,818 |
| 1983 | 231,155 | 6,444 | 1,040,678 | 361,589 | 17,532 | 1,657,398 |
| 1984 | 201,412 | 7,577 | 954,237 | 421,347 | 23,158 | 1,607,731 |
| 1985 | 182,953 | 6,121 | 1,339,185 | 712,092 | 43,041 | 2,283,392 |
| 1986 | 207,984 | 6,081 | 1,789,022 | 141,802 | 44,702 | 2,189,591 |
| 1987 | 213,345 | 7,596 | 857,830 | 352,031 | 9,830 | 1,440,632 |
| 1988 | 198,078 | 7,445 | 407,892 | 371,781 | 73,725 | 1,058,921 |
| 1989 | 206,942 | 17,731 | 1,195,255 | 1,469,836 | 62,410 | 2,952,174 |
| 1990 | 247,921 | 7,930 | 1,559,034 | 616,867 | 56,329 | 2,488,081 |
| 1991 | 223,104 | 8,733 | 1,479,862 | 354,983 | 24,599 | 2,091,281 |
| 1992 | 157,806 | 20,926 | 1,679,526 | 578,324 | 78,990 | 2,515,572 |
| 1993 | 202,674 | 23,668 | 2,079,984 | 801,006 | 490,689 | 3,598,021 |
| 1994 | 171,294 | 19,883 | 3,025,660 | 885,789 | 298,315 | 4,400,941 |
| 1995 | 124,703 | 25,501 | 1,605,030 | 650,435 | 256,171 | 2,661,840 |
| 1996 | 129,827 | 10,329 | 1,708,420 | 781,152 | 352,758 | 2,982,486 |
| 1997 | 231,569 | 38,221 | 1,065,935 | 510,204 | 292,000 | 2,137,929 |
| 1998 | 183,052 | 6,216 | 1,516,903 | 249,311 | 115,591 | 2,071,073 |
| 1999 | 139,890 | 5,439 | 2,092,502 | 528,456 | 74,089 | 2,840,376 |
| 2000 | 150,098 | 4,341 | 1,057,660 | 181,978 | 471,717 | 1,865,794 |
| 2001 | 143,408 | 8,688 | 1,734,095 | 252,676 | 455,350 | 2,594,217 |
| 2002 | 313,875 | 1,214 | 1,237,205 | 83,646 | 117,094 | 1,753,034 |
| 2003 | 317,172 | 4,441 | 1,139,901 | 155,829 | 188,048 | 1,805,391 |
| 2004 | 335,800 | 4,862 | 1,806,383 | 54,912 | 160,209 | 2,362,166 |
| 2005 | 321,595 | 12,936 | 1,892,688 | 103,432 | 164,975 | 2,495,626 |
| 2006 | 265,941 | 7,762 | 1,285,844 | 56,685 | 142,593 | 1,759,469 |
| 2007 | 249,889 | 6,220 | 1,285,283 | 100,181 | 184,415 | 1,825,943 |
| Average 1975-2007 | 221,957 | 9,002 | 1,255,888 | 387,665 | 129,143 | 2,003,674 |
| 2008 | 136,626 | 1,097 | 1,190,988 | 26,578 | 59,780 | 1,415,069 |

Note: Data by calendar year from 1975 to 1978, from January 1 to September 30 for 1979, and by troll season from 1980 to 2008.
Note: Beginning in 1975 hand and power troll harvest were reported separately.
Note: Harvest for all species includes Annette Island Reserve.
${ }^{\text {a }}$ Only Chinook salmon harvest statistics include hatchery terminal area harvest.

Table 12.-2008 Southeast Alaska Chinook salmon total harvest and treaty harvest by gear type, showing troll harvest by fishery.

| Gear/Fishery | Total <br> Harvest | Alaska <br> Hatchery <br> Harvest | Alaska <br> Hatchery <br> Add-on | Terminal <br> Exclusion <br> Harvest | Term. Exclusion/ <br> Alaska Hatchery <br> Add-on | Treaty <br> Harvest |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Winter Troll | 21,825 | 2,865 | 2,455 | 0 | 2,455 | 19,370 |
| Spring Troll | 41,112 | 22,128 | 19,223 | 1,137 | 20,360 | 20,752 |
| Summer Troll | 88,969 | 3,897 | 3,319 | 0 | 3,319 | 85,650 |
| Total Troll | $\mathbf{1 5 1 , 9 0 6}$ | $\mathbf{3 0 , 0 2 7}$ | $\mathbf{2 4 , 9 9 7}$ | $\mathbf{1 , 1 3 7}$ | $\mathbf{2 6 , 1 3 4}$ | $\mathbf{1 2 5 , 7 7 2}$ |
| Seine | 15,554 | 12,165 | 12,103 | 0 | 12,103 | 3,451 |
| Gillnet | 29,764 | 17,669 | 15,681 | 5,704 | 21,385 | 8,379 |
| Setnet | 844 | 0 |  | 0 | 0 | 844 |
| Sport | 38,371 | 14,204 | 11,357 | 1,352 | 12,709 | 25,662 |
| All Gear Total | $\mathbf{2 3 6 , 4 3 9}$ | $\mathbf{7 4 , 0 6 5}$ | $\mathbf{6 4 , 1 3 8}$ | $\mathbf{8 , 1 9 3}$ | $\mathbf{7 2 , 3 3 1}$ | $\mathbf{1 6 4 , 1 0 8}$ |

[^2]Table 13.-Annual Southeast Alaska commercial and recreational Chinook salmon harvests and Alaska hatchery contribution, in thousands of fish, 1965-2008.

| Year | Troll ${ }^{\text {a }}$ | Net ${ }^{\text {b }}$ | Subtotal | Sport ${ }^{\text {c }}$ | Total | Alaska hatchery contribution | Total less Alaska hatchery contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1965 | 309 | 28 | 337 | 13 | 350 | - | - |
| 1966 | 282 | 26 | 308 | 13 | 321 | - | - |
| 1967 | 275 | 26 | 301 | 13 | 314 | - | - |
| 1968 | 304 | 27 | 331 | 14 | 345 | - | - |
| 1969 | 290 | 24 | 314 | 14 | 328 | - | - |
| 1970 | 305 | 18 | 323 | 14 | 337 | - | - |
| 1971 | 311 | 23 | 334 | 15 | 349 | - | - |
| 1972 | 242 | 44 | 286 | 15 | 301 | - | - |
| 1973 | 308 | 36 | 344 | 16 | 360 | - | - |
| 1974 | 322 | 24 | 346 | 17 | 363 | - | - |
| 1975 | 287 | 13 | 300 | 17 | 317 | - | - |
| 1976 | 231 | 10 | 241 | 17 | 258 | - | - |
| 1977 | 272 | 13 | 285 | 17 | 302 | - | - |
| 1978 | 375 | 25 | 400 | 17 | 417 | - | - |
| 1979 | 338 | 28 | 366 | 17 | 383 | - | - |
| 1980 | 304 | 20 | 324 | 20 | 344 | 6 | 338 |
| 1981 | 249 | 19 | 268 | 21 | 289 | 2 | 287 |
| 1982 | 242 | 48 | 290 | 26 | 316 | 1 | 315 |
| 1983 | 270 | 19 | 289 | 22 | 311 | 3 | 308 |
| 1984 | 236 | 32 | 268 | 22 | 290 | 6 | 284 |
| 1985 | 216 | 33 | 249 | 25 | 274 | 13 | 261 |
| 1986 | 238 | 22 | 260 | 23 | 283 | 17 | 266 |
| 1987 | 243 | 16 | 259 | 24 | 283 | 24 | 259 |
| 1988 | 231 | 22 | 253 | 26 | 279 | 29 | 250 |
| 1989 | 236 | 24 | 260 | 31 | 291 | 29 | 262 |
| 1990 | 288 | 28 | 316 | 51 | 367 | 54 | 313 |
| 1991 | 264 | 35 | 299 | 60 | 359 | 70 | 289 |
| 1992 | 184 | 32 | 216 | 43 | 259 | 44 | 215 |
| 1993 | 227 | 28 | 255 | 49 | 304 | 40 | 264 |
| 1994 | 186 | 36 | 222 | 42 | 264 | 36 | 228 |
| 1995 | 138 | 48 | 186 | 50 | 236 | 69 | 167 |
| 1996 | 141 | 37 | 178 | 58 | 237 | 89 | 148 |
| 1997 | 246 | 25 | 271 | 72 | 340 | 63 | 277 |
| 1998 | 192 | 24 | 216 | 55 | 271 | 34 | 237 |
| 1999 | 146 | 33 | 179 | 72 | 251 | 59 | 192 |
| 2000 | 159 | 41 | 200 | 63 | 252 | 85 | 167 |
| 2001 | 153 | 38 | 191 | 68 | 259 | 87 | 172 |
| 2002 | 325 | 32 | 357 | 85 | 442 | 78 | 364 |
| 2003 | 331 | 39 | 370 | 73 | 443 | 68 | 375 |
| 2004 | 355 | 64 | 419 | 84 | 503 | 83 | 420 |
| 2005 | 338 | 71 | 409 | 93 | 502 | 73 | 429 |
| 2006 | 282 | 70 | 352 | 91 | 443 | 89 | 354 |
| 2007 | 268 | 56 | 324 | 86 | 410 | 76 | 334 |
| 2008 | 152 | 46 | 198 | 38 | 236 | 80 | 156 |

Note: Years 1985-2001 were updated in 2001, based on Add-on tables for BOF reports. All subsequent years also based on Add-on tables.
a Troll harvest prior to 1980 is reported by calendar year. From 1980 to present, harvest is by season, October 1 to September 30 .
${ }^{\text {b }}$ Purse seine harvest from 1986 to the present do not include Chinook less than 5 pounds reported on fish tickets.
c Estimates of sport catches for 1965-76 based on 1977-80 average catch per capita data. Sport catches for 1977-2007 based on statewide postal harvest surveys. Sport harvest for 2008 is based on preliminary creel survey data, pending completion of statewide postal harvest surveys.

Table 14.-Southeast Alaska winter troll fishery Chinook salmon harvest, vessel landings, and catch per landing, by troll accounting year (October 1-September 30), 1980-2008.

| Year |  | Early Winter (Oct.-Dec.) |  |  | Late Winter (Jan.-April) |  |  | Total Winter (Oct.-April ) |  |  | Annual Total | Winter \% of Annual Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Landings | Catch/ <br> Landing | Chinook | Landings | Catch/ <br> Landing | Chinook | Landings | Catch/ <br> Landing |  |  |
|  | 1980 | 4,002 | 528 | 8 | 3,608 | 406 | 9 | 7,610 | 934 | 8 | 303,643 | 3\% |
|  | 1981 | 1,737 | 279 | 6 | 7,027 | 744 | 9 | 8,764 | 1,023 | 9 | 248,782 | 4\% |
|  | 1982 | 4,865 | 535 | 9 | 6,857 | 764 | 9 | 11,722 | 1,299 | 9 | 241,938 | 5\% |
|  | 1983 | 12,517 | 926 | 14 | 17,340 | 1,424 | 12 | 29,857 | 2,350 | 13 | 269,821 | 11\% |
|  | 1984 | 14,223 | 1,217 | 12 | 17,153 | 1,980 | 9 | 31,376 | 3,197 | 10 | 235,622 | 13\% |
|  | 1985 | 14,235 | 869 | 16 | 7,234 | 1,148 | 6 | 21,469 | 2,017 | 11 | 215,811 | 10\% |
|  | 1986 | 16,779 | 1,049 | 16 | 6,147 | 832 | 7 | 22,926 | 1,881 | 12 | 237,703 | 10\% |
|  | 1987 | 18,453 | 1,235 | 15 | 10,075 | 996 | 10 | 28,528 | 2,231 | 13 | 242,562 | 12\% |
|  | 1988 | 44,774 | 2,404 | 19 | 15,684 | 1,785 | 9 | 60,458 | 4,189 | 14 | 231,364 | 26\% |
|  | 1989 | 24,426 | 2,239 | 11 | 9,872 | 1,403 | 7 | 34,298 | 3,642 | 9 | 235,716 | 15\% |
|  | 1990 | 17,617 | 868 | 20 | 15,513 | 1,477 | 11 | 33,130 | 2,345 | 14 | 287,939 | 12\% |
| ) | 1991 | 19,920 | 787 | 25 | 20,622 | 2,037 | 10 | 40,542 | 2,824 | 14 | 264,106 | 15\% |
|  | 1992 | 28,277 | 1,653 | 17 | 43,554 | 2,679 | 16 | 71,831 | 4,332 | 17 | 183,759 | 39\% |
|  | 1993 | 20,275 | 1,194 | 17 | 42,447 | 2,366 | 18 | 62,722 | 3,560 | 18 | 226,866 | 28\% |
|  | 1994 | 35,193 | 1,106 | 32 | 21,175 | 1,499 | 14 | 56,368 | 2,605 | 22 | 186,331 | 30\% |
|  | 1995 | 10,382 | 627 | 17 | 7,486 | 871 | 9 | 17,868 | 1,498 | 12 | 138,117 | 13\% |
|  | 1996 | 6,008 | 427 | 14 | 3,393 | 447 | 8 | 9,401 | 874 | 11 | 141,452 | 7\% |
|  | 1997 | 13,252 | 626 | 21 | 7,705 | 514 | 15 | 20,957 | 1,151 | 18 | 246,409 | 9\% |
|  | 1998 | 9,810 | 534 | 18 | 23,008 | 1,372 | 17 | 32,804 | 2,001 | 16 | 192,066 | 17\% |
|  | 1999 | 13,989 | 579 | 24 | 16,988 | 1,435 | 12 | 30,977 | 2,026 | 15 | 146,219 | 21\% |
|  | 2000 | 17,494 | 783 | 22 | 18,561 | 1,508 | 12 | 36,055 | 2,291 | 16 | 158,717 | 23\% |
|  | 2001 | 11,198 | 907 | 12 | 11,388 | 1,382 | 8 | 22,586 | 2,298 | 10 | 153,280 | 15\% |
|  | 2002 | 17,152 | 754 | 23 | 12,237 | 1,351 | 9 | 29,415 | 2,116 | 14 | 325,308 | 9\% |
|  | 2003 | 18,672 | 725 | 26 | 32,182 | 2,365 | 14 | 50,854 | 3,090 | 16 | 330,692 | 15\% |
|  | 2004 | 12,686 | 982 | 13 | 40,200 | 2,595 | 15 | 52,886 | 3,577 | 15 | 354,636 | 15\% |
|  | 2005 | 12,982 | 1,103 | 12 | 37,482 | 2,955 | 13 | 50,464 | 4,058 | 12 | 336,153 | 15\% |
|  | 2006 | 13,952 | 1,418 | 10 | 34,967 | 3,102 | 11 | 48,919 | 4,520 | 11 | 284,830 | 17\% |
|  | 2007 | 7,642 | 1,092 | 7 | 39,233 | 2,808 | 14 | 46,872 | 3,900 | 12 | 266,837 | 18\% |
|  | 2008 | 5,170 | 950 | 5 | 16,655 | 2,347 | 7 | 21,825 | 3,297 | 7 | 147,367 | 15\% |

Note: Data includes Annette Island troll harvest.

Table 15.-The number of Chinook salmon harvested and permits fished in the 2008 spring troll fisheries by statistical week, including experimental and terminal areas.

| Stat Area | Fishery Name | Stat <br> Week | Open | Close | Permits | Chinook | AK \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 101-29 | Ketchikan Area | 19 | 4-May | 10-May | 3 | 13 |  |
|  |  | 20 | 11-May | 17-May | 7 | 17 |  |
|  |  | 21 | 18-May | 24-May | 19 | 194 | 23\% |
|  |  | 22 | 25-May | 31-May | 14 | 134 | 20\% |
|  |  | 23 | 1-Jun | 7-Jun | 23 | 343 | 57\% |
|  |  | 24 | 8-Jun | 14-Jun | 22 | 265 | 23\% |
|  |  | 25 | 15-Jun | 21-Jun | 48 | 690 | 41\% |
|  |  | 26 | 22-Jun | 28-Jun | 38 | 645 | 66\% |
|  |  | 27 | 29-Jun | 30-Jun | 10 | 126 | 82\% |
|  | Ketchikan Area Total |  |  | 61 days | 78 | 2,427 | 51\% |
| 101-90 | West Behm Canal | 24 | 8-Jun | 14-Jun | 4 | 40 | 19\% |
|  |  | 25 | 15-Jun | 21-Jun | 3 | 14 | 0 |
|  |  | 26 | 22-Jun | 28-Jun | 2 | 16 | 0 |
|  |  | 27 | 29-Jun | 30-Jun | 1 | 24 | 0 |
|  | West Behm Canal Total |  |  | 54 days | 6 | 94 | 8\% |
| 101-95 | Neets Bay Terminal Area | 24 | 8-Jun | 14-Jun | * | * |  |
|  |  | 25 | 15-Jun | 21-Jun | * | * |  |
|  |  | 28 | 6-Jul | 12-Jul | 7 | 190 |  |
|  | Neets Bay Term. Total |  |  | 73 days | 8 | 227 | 100\% |
| 105-41 | Sumner Strait | 18 | 1-May | 2-May | 11 | 62 |  |
|  |  | 19 | 5-May | 6-May | 13 | 98 | 13\% |
|  |  | 20 | 12-May | 13-May | 14 | 77 | 43\% |
|  |  | 21 | 19-May | 20-May | 18 | 138 | 2\% |
|  |  | 22 | 26-May | 27-May | 15 | 138 | 57\% |
|  |  | 23 | 2-Jun | 5-Jun | 16 | 217 | $29 \%$ |
|  |  | 24 | 9-Jun | 11-Jun | 18 | 185 | 8\% |
|  |  | 25 | 16-Jun | 18-Jun | 17 | 229 | 81\% |
|  |  | 26 | 23-Jun | 28-Jun | 15 | 93 |  |
|  |  | 27 | 29-Jun | 30-Jun | 5 | 26 |  |
|  | Sumner Strait Total |  |  | 25 days | 46 | 1,263 | 31\% |
| 106-20 | Clarence Strait | 23 | 1-Jun | 7-Jun | 3 | 41 | 153\% |
|  |  | 24 | 8-Jun | 14-Jun | * | * |  |
|  |  | 25 | 15-Jun | 21-Jun | * | * |  |
|  | Clarence Strait Total |  |  | 61 days | 5 | 61 | 100\% |
| 106-30 | Steamer Point | 20 | 12-May | 16-May | * | * |  |
|  |  | 22 | 26-May | 31-May | 4 | 20 |  |
|  |  | 23 | 2-Jun | 7-Jun | 6 | 78 |  |
|  |  | 24 | 8-Jun | 14-Jun | 7 | 43 | 100\% |
|  |  | 25 | 15-Jun | 21-Jun | 6 | 79 | 100\% |
|  |  | 26 | 22-Jun | 28-Jun | 9 | 107 |  |
|  |  | 27 | 29-Jun | 30-Jun | * | * | 60\% |
|  | Steamer Point Total |  |  | 54 days | 21 | 336 | 84\% |

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Table 15.-Page 2 of 6.

| Stat Area | Fishery Name | Stat <br> Week | Open | Close | Permits | Chinook | AK \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 106-44 | Wrangell Narrows | 23 | 2-Jun | 7-Jun | 21 | 157 |  |
|  |  | 24 | 8 -Jun | 14-Jun | 18 | 159 |  |
|  |  | 25 | 15-Jun | 21-Jun | 16 | 104 |  |
|  |  | 26 | 22-Jun | 28-Jun | 12 | 193 |  |
|  |  | 27 | 29-Jun | 30-Jun | 9 | 54 |  |
| Wrangell Narrows Term. |  |  |  | 29 days | 27 | 667 | 100\% |
| 107-10 | Ernest Sound | 23 | 1-Jun | 7-Jun | * |  |  |
|  |  | 24 | 8 -Jun | 14-Jun | * | * | 37\% |
|  |  | 25 | 15-Jun | 21-Jun | * | * |  |
|  |  | 26 | 22-Jun | 28-Jun | * | * |  |
|  | Ernest Sound Total |  |  | 61 days | 5 | 68 | 55\% |
| 107-20 | Deer Island | 22 | 25-May | 31-May | * | * |  |
|  |  | 23 | 1-Jun | 7-Jun | 4 | 46 | 100\% |
|  |  | 24 | 8 -Jun | 14-Jun | 5 | 48 | 100\% |
|  |  | 25 | 15-Jun | 21-Jun | * | * |  |
|  |  | 26 | 22-Jun | 28-Jun | 5 | 49 |  |
|  | Deer Island Total |  |  | 61 days | 5 | 170 | 100\% |
| 107-30 | Zimovia Strait | 20 | 12-May | 16-May | * | * |  |
|  |  | 21 | 19-May | 23-May | * | * |  |
|  |  | 25 | 15-Jun | 21-Jun | * | * | 100\% |
|  | Zimovia Strait Total |  |  | 54 days | 3 | 7 | 100\% |
| 108-41 | District 8 | 19 | 5-May | 9-May | 19 | 72 |  |
|  |  | 20 | 12-May | 16-May | 28 | 193 | 17\% |
|  |  | 21 | 19-May | 23-May | 49 | 360 | 13\% |
|  |  | 22 | 27-May | 29-May | 34 | 185 | 17\% |
|  |  | 23 | 2-Jun | 4-Jun | 28 | 241 | 40\% |
|  |  | 24 | 9-Jun | 13-Jun | 36 | 331 | 60\% |
|  |  | 25 | 16-Jun | 20-Jun | 23 | 236 | 100\% |
|  |  | 26 | 23-Jun | 27-Jun | 11 | 79 |  |
|  |  | 27 | 30-Jun | 30-Jun | * | * |  |
|  | District 8 Total |  |  | 40 Days | 92 | 1,697 | 40\% |
| 109-10 | Little Port Walter | 19 | 7-May | 9-May | * | * |  |
|  |  | 20 | 14-May | 16-May | * | * | 14\% |
|  |  | 21 | 20-May | 23-May | 14 | 191 | 89\% |
|  |  | 22 | 27-May | 31-May | 10 | 217 | 40\% |
|  |  | 23 | 2-Jun | 7-Jun | 11 | 282 | 56\% |
|  |  | 24 | 8 -Jun | 14-Jun | 11 | 279 | 63\% |
|  |  | 25 | 15-Jun | 21-Jun | 14 | 350 | 76\% |
|  |  | 26 | 22-Jun | 28-Jun | 4 | 19 | 227\% |
|  |  | 27 | 29-Jun | 30-Jun | * | * | 51\% |
|  | ittle Port Walter Total |  |  | 47 days | 31 | 1,359 | 66\% |

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Table 15. - Page 3 of 6.

| Stat Area | Fishery Name | Stat <br> Week | Open | Close | Permits | Chinook | AK \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 109-62 | Tebenkof Bay | 19 | 5-May | 7-May | 11 | 116 | 39\% |
|  |  | 20 | 12-May | 14-May | 3 | 47 | 40\% |
|  |  | 21 | 19-May | 22-May | 22 | 698 | 41\% |
|  |  | 22 | 26-May | 29-May | 24 | 919 | 63\% |
|  |  | 23 | 2-Jun | 5-Jun | 38 | 1090 | 41\% |
|  |  | 24 | $9-\mathrm{Jun}$ | 12-Jun | 38 | 1835 | 60\% |
|  |  | 25 | 16-Jun | 21-Jun | 55 | 1987 | 44\% |
|  |  | 26 | 22-Jun | 28-Jun | 27 | 643 | 43\% |
|  |  | 27 | 29-Jun | 30-Jun | 4 | 73 | 9\% |
|  | Tebenkof Bay Total |  |  | 36 days | 91 | 7,408 | 49\% |
| 110-31 | Frederick Sound | 18 | 1-May | 3-May |  |  |  |
|  |  | 19 | 4-May | 10-May | 3 | 9 |  |
|  |  | 20 | 11-May | 17-May | 3 | 8 |  |
|  |  | 21 | 18-May | 24-May | * | * |  |
|  |  | 22 | 25-May | 31-May | 4 | 23 | 68\% |
|  |  | 23 | 1-Jun | 7-Jun | 6 | 68 |  |
|  |  | 24 | 8 -Jun | 14-Jun | 4 | 49 |  |
|  |  | 25 | 15-Jun | 21-Jun | 10 | 96 | 27\% |
|  |  | 26 | 22-Jun | 28-Jun | 3 | 8 |  |
|  |  | 27 | 29-Jun | 30-Jun |  |  |  |
|  | Frederick Sound Total |  |  | 61 days | 25 | 261 | 16\% |
| 112-12 | Chatham Strait | 18 | 1-May | 3-May | 3 | 21 | 92\% |
|  |  | 19 | 4-May | 10-May | 20 | 356 | 17\% |
|  |  | 20 | 11-May | 17-May | 12 | 176 | 50\% |
|  |  | 21 | 18-May | 24-May | 33 | 496 | 36\% |
|  |  | 22 | 25-May | 31-May | 24 | 298 | 63\% |
|  |  | 23 | 1-Jun | 7-Jun | 15 | 299 | 35\% |
|  |  | 24 | 8 -Jun | 14-Jun | 31 | 1140 | 65\% |
|  |  | 25 | 15-Jun | 21-Jun | 33 | 832 | 68\% |
|  |  | 26 | 22-Jun | 28-Jun | 13 | 71 | 184\% |
|  |  | 27 | 29-Jun | 30-Jun |  | * | 99\% |
|  | Chatham Strait Total |  |  | 61 days | 80 | 3,689 | 57\% |
| 112-22 | Hidden Falls Term. Area | 22 | 25-May | 31-May | 4 | 65 |  |
|  |  | 23 | 1-Jun | 7-Jun | * | * |  |
|  |  | 24 | 8 -Jun | 14-Jun | 5 | 76 |  |
|  |  | 25 | 15-Jun | 21-Jun | 5 | 49 |  |
|  |  | 26 | 22-Jun | 28-Jun | 10 | 378 |  |
|  |  | 27 | 29-Jun | 30-Jun | 4 | 192 |  |
|  |  | 28 | 6 -Jul | 7-Jul | * | * |  |
|  |  | 33 | 10-Aug | 11-Aug | * | * |  |
|  |  | 34 | 17-Aug | 18-Aug | 6 | 77 |  |
|  |  | 35 | 24-Aug | 25-Aug | * | * |  |
|  | Hidden Falls Term. Total |  |  |  | 27 | 845 | 100\% |

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Table 15.-Page 4 of 6.

| Stat Area | Fishery Name | Stat Week | Open | Close | Permits | Chinook | AK \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 113-01 | Western Channel | 21 | 19-May | 19-May | 14 | 75 | 65\% |
|  |  | 22 | 27-May | 27-May | 11 | 78 | 69\% |
|  |  | 23 | 2-Jun | 3-Jun | 21 | 301 | 66\% |
|  |  | 24 | $9-$ Jun | 12-Jun | 47 | 958 | 51\% |
|  |  | 25 | 14-Jun | 21-Jun | 70 | 1288 | 62\% |
|  |  | 26 | 22-Jun | 28-Jun | 20 | 387 | 57\% |
|  |  | 27 | 29-Jun | 30-Jun | 6 | 220 |  |
|  | Western Channel Total |  |  | 25 days | 109 | 3,307 | 55\% |
| 113-30 | Redoubt Bay | 19 | 5-May | 6-May | 6 | 24 |  |
|  |  | 20 | 12-May | 13-May | * | * |  |
|  |  | 21 | 19-May | 21-May | 15 | 145 | 2\% |
|  |  | 22 | 27-May | 29-May | 14 | 156 | 22\% |
|  |  | 23 | 2-Jun | 4-Jun | 5 | 38 |  |
|  |  | 24 | $9-\mathrm{Jun}$ | 11-Jun | 10 | 92 |  |
|  |  | 25 | 16-Jun | 17-Jun | * | * |  |
|  | Redoubt Bay Total |  |  | 21 days | 37 | 489 | 8\% |
| 113-31 | Biorka Island | 21 | 19-May | 19-May | 43 | 559 | 20\% |
|  |  | 22 | 27-May | 27-May | 28 | 174 | 22\% |
|  |  | 23 | 2-Jun | 2-Jun | 14 | 100 | 0\% |
|  |  | 24 | 9 -Jun | $9-$ Jun | 10 | 67 | 58\% |
|  |  | 25 | 16-Jun | 16-Jun | 7 | 46 | 48\% |
|  |  | 26 | 23-Jun | 23-Jun | 5 | 17 |  |
|  |  | 27 | 30-Jun | 30-Jun | * | * |  |
|  | Biorka Island Total |  |  | 7 days | 65 | 963 | 21\% |
| 113-35 | Silver Bay Special Harvest |  |  |  |  |  |  |
|  |  | 28 | 7-Jul | 13-Jul | 24 | 608 |  |
|  |  | 29 | 14-Jul | 20-Jul | 20 | 1,049 |  |
|  |  | 30 | 21-Jul | 27-Jul | 15 | 601 |  |
|  |  | 31 | 28-Jul | 30-Jul | 11 | 457 |  |
|  | Silver Bay SHA Total |  |  |  | 36 | 2,715 | 100\% |
| 113-38 | Deep Inlet Terminal Area | 19 | 5-May | 6-May | 2 | 4 |  |
|  |  | 23 | 2-Jun | 2-Jun | * | * |  |
|  |  | 24 | $9-\mathrm{Jun}$ | $9-\mathrm{Jun}$ | * | * |  |
|  |  | 28 | 7-Jul | 7-Jul | 4 | 16 |  |
|  | Deep Inlet Term. Total |  |  |  | 7 | 37 | 100\% |

-continued-

Table 15. -Page 5 of 6.

| Stat Area | Fishery Name | Stat <br> Week | Open | Close | Permits | Chinook | AK \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 113-41 | Sitka Sound | 18 | 1-May | 3-May | 6 | 33 |  |
|  |  | 19 | 4-May | 10-May | 46 | 298 | 35\% |
|  |  | 20 | 11-May | 17-May | 54 | 441 | 31\% |
|  |  | 21 | 18-May | 24-May | 72 | 632 | 4\% |
|  |  | 22 | 25-May | 31-May | 84 | 1,082 | 73\% |
|  |  | 23 | 1-Jun | 7-Jun | 119 | 1,549 | 69\% |
|  |  | 24 | 8 -Jun | 14-Jun | 116 | 1,619 | 53\% |
|  |  | 25 | 15-Jun | 21-Jun | 103 | 1,393 | 64\% |
|  |  | 26 | 22-Jun | 28-Jun | 88 | 1,143 | 77\% |
|  |  | 27 | 29-Jun | 30-Jun | 21 | 275 |  |
|  | Sitka Sound Total |  |  | 61 days | 219 | 8,465 | 56\% |
| 113-62 | Salisbury Sound | 20 | 12-May | 14-May | 11 | 128 | 54\% |
|  |  | 21 | 19-May | 22-May | 8 | 92 | 8\% |
|  |  | 22 | 27-May | 29-May | 15 | 485 | 27\% |
|  |  | 23 | 2-Jun | 5-Jun | 11 | 78 |  |
|  |  | 24 | 9-Jun | 13-Jun | 13 | 105 | 25\% |
|  |  | 25 | 16-Jun | 20-Jun | 15 | 462 | 52\% |
|  |  | 26 | 21-Jun | 28-Jun | 24 | 331 | 71\% |
|  | Salisbury Sound Total |  |  | 34 days | 52 | 1,681 | 42\% |
| 113-95 | Lisianski Inlet | 19 | 5-May | 6-May | * | * |  |
|  |  | 20 | 12-May | 13-May | 5 | 75 | 3\% |
|  |  | 21 | 19-May | 20-May | 9 | 157 | 24\% |
|  |  | 22 | 26-May | 27-May | 6 | 51 | 17\% |
|  |  | 23 | 2-Jun | 3-Jun | 9 | 72 | 3\% |
|  |  | 24 | 9-Jun | 10-Jun | 6 | 49 |  |
|  |  | 25 | 16-Jun | 19-Jun | 6 | 110 |  |
|  |  | 26 | 23-Jun | 24-Jun | 4 | 27 |  |
|  | Lisianski Inlet Total |  |  | 19 days | 21 | 541 | 9\% |
| 113-97 | Stag Bay | 21 | 18-May | 24-May | * | * |  |
|  |  | 22 | 25-May | 31-May | * | * |  |
|  |  | 24 | 8 -Jun | 14-Jun | * | 7 |  |
|  | Stag Bay Total |  |  | 61 days |  | 11 | 0\% |
| 114-21 | Cross Sound | 25 | 16-Jun | 20-Jun | 4 | 12 |  |
|  |  | 26 | 23-Jun | 27-Jun | 3 | 8 |  |
|  | Cross Sound Total |  |  | 15 days | 6 | 20 | 0\% |
| 114-23 | South Passage | 21 | 18-May | 24-May | * | * |  |
|  |  | 23 | 1-Jun | 7-Jun | 3 | 17 |  |
|  |  | 24 | 8-Jun | 14-Jun |  | , |  |
|  | South Passage Total |  |  |  | 5 | 25 | 0\% |

-continued-

Table 15.-Page 6 of 6.

| Stat Area | Fishery Name | Stat Week | Open | Close | Permits | Chinook | AK \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 114-25 | Icy Strait | 18 | 1-May | 3-May | * | * |  |
|  |  | 19 | 4-May | 10-May | 6 | 25 |  |
|  |  | 20 | 11-May | 17-May | 4 | 8 |  |
|  |  | 21 | 18-May | 24-May | 11 | 62 |  |
|  |  | 22 | 25-May | 31-May | 14 | 53 |  |
|  |  | 23 | 1-Jun | 7-Jun | 9 | 37 | 60\% |
|  |  | 24 | 8-Jun | 14-Jun | 14 | 73 | 120\% |
|  |  | 25 | 15-Jun | 21-Jun | 10 | 49 |  |
|  |  | 26 | 22-Jun | 28-Jun | 9 | 37 | 4\% |
|  | Icy Strait Total |  |  | 61 days | 40 | 344 | 32\% |
| 114-50 | Port Althorp | 19 | 5-May | 6-May | 11 | 183 | 5\% |
|  |  | 20 | 12-May | 13-May | 24 | 301 | 40\% |
|  |  | 21 | 19-May | 20-May | 23 | 269 | 17\% |
|  |  | 22 | 26-May | 27-May | 16 | 119 | 0\% |
|  |  | 23 | 2-Jun | 3-Jun | 26 | 300 | 59\% |
|  |  | 24 | 9-Jun | 10-Jun | 22 | 185 | 28\% |
|  |  | 25 | 16-Jun | 21-Jun | 22 | 292 | 53\% |
|  |  | 26 | 22-Jun | 28-Jun | 20 | 220 | 57\% |
|  |  | 27 | 29-Jun | 30-Jun | * | * |  |
|  | Port Althorp Total |  |  | 26 days | 53 | 1,869 | 36\% |
| Spring Experimental Total |  |  |  |  | 573 | 36,620 | 49\% |
| Terminal Total |  |  |  |  | 100 | 4,492 | 100\% |
| Spring Season Total |  |  |  |  |  | 41,112 | 55\% |

${ }^{\text {a }}$ Totals do not include Annette Island harvests

* Denotes confidential data. Totals given may or may not include individual weeks confidential data.

Table 16.-Spring troll fishery Chinook salmon harvests and Alaska hatchery contributions, 19862008.

| Year | Non-Terminal Spring Harvest | Alaska Hatchery <br> Harvest | Terminal <br> Harvest |  |
| :--- | :---: | :---: | :---: | ---: |
| 1986 | 776 | 240 | $31 \%$ | 0 |
| 1987 | 4,488 | 1,548 | $34 \%$ | 0 |
| 1988 | 8,505 | 2,931 | $34 \%$ | 100 |
| 1989 | 2,366 | 922 | $39 \%$ | 913 |
| 1990 | 7,052 | 4,255 | $60 \%$ | 16 |
| 1991 | 13,984 | 6,129 | $44 \%$ | 5,863 |
| 1992 | 11,229 | 5,604 | $50 \%$ | 4,118 |
| 1993 | 15,826 | 6,525 | $41 \%$ | 2,853 |
| 1994 | 11,269 | 4,939 | $44 \%$ | 100 |
| 1995 | 21,750 | 13,990 | $64 \%$ | 1,333 |
| 1996 | 30,963 | 15,672 | $51 \%$ | 9,416 |
| 1997 | 32,791 | 13,556 | $41 \%$ | 1,313 |
| 1998 | 19,195 | 5,012 | $26 \%$ | 2,367 |
| 1999 | 18,351 | 8,766 | $48 \%$ | 7,966 |
| 2000 | 20,990 | 11,217 | $53 \%$ | 7,081 |
| 2001 | 28,250 | 13,726 | $49 \%$ | 6,040 |
| 2002 | 37,610 | 17,398 | $46 \%$ | 3,840 |
| 2003 | 35,452 | 11,949 | $34 \%$ | 1,610 |
| 2004 | 55,186 | 19,863 | $36 \%$ | 2,280 |
| 2005 | 58,665 | 18,195 | $31 \%$ | 1,016 |
| 2006 | 36,951 | 9,430 | $36 \%$ | 1,310 |
| 2007 | 48,596 | 18,518 | $\mathbf{4 9 \%}$ | 4,492 |
| $\mathbf{2 0 0 8}$ | $\mathbf{3 6 , 6 2 0}$ | $\mathbf{1 7 , 7 6 9}$ |  |  |

Note: Data does not include Hatchery Access fishery harvest, which occurred in 1989-1992.

Table 17.-Southeast Alaska troll Chinook salmon catch-per-fleet-day during the general summer fishery, 1984-2008.

| Year | Fishing Period | Days | Chinook Harvest | Catch/Fleet Day | Chinook Abundance Index ${ }^{\text {a }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | June 5-30 | 26 | 127,300 | 4,896 |  |
|  | July 11-29 | 19 | 75,000 | 3,947 |  |
|  |  | 45 | 202,300 | 4,496 | 1.34 |
| 1985 | June 3-12 | 10 | 65,400 | 6,540 |  |
|  | July 1-22 | 22 | 114,400 | 5,200 |  |
|  | August 25-26 | 2 | 13,200 | 8,250 |  |
|  |  | 34 | 193,000 | 5,744 | 1.27 |
| 1986 | June 20-July 15 | 26 | 154,600 | 5,946 |  |
|  | August 21-26 | 6 | 31,900 | 5,317 |  |
|  | September 1-9 | 9 | 27,500 | 3,056 |  |
|  |  | 41 | 214,000 | 5,220 | 1.48 |
| 1987 | June 20-July 12 | 23 | 209,500 | 9,109 | 1.78 |
| 1988 | July 1-12 | 12 | 162,000 | 13,500 | 2.04 |
| 1989 | July 1-13 | 13 | 167,500 | 12,885 | 1.85 |
| 1990 | July 1-22 | 22 | 200,000 | 9,091 |  |
|  | August 23-24 | 2 | 11,900 | 5,950 |  |
|  |  | 24 | 211,900 | 8,829 | 1.78 |
| 1991 | July 1-8 | 8 | 154,000 | 20,533 | 1.66 |
| 1992 | July 1-4 | 4 | 65,600 | 18,743 |  |
|  | August 23 | 1 | 6,900 | 6,900 |  |
|  |  | 5 | 72,500 | 16,111 | 1.77 |
| 1993 | July 1-6 | 6 | 101,100 | 16,850 |  |
|  | August 21-25 | 5 | 24,900 | 4,980 |  |
|  | September 12-20 | 9 | 19,100 | 2,122 |  |
|  |  | 20 | 145,100 | 7,255 | 1.92 |
| 1994 | July 1-7 | 7 | 98,300 | 14,043 |  |
|  | August 29 - | 5 | 20,200 | 4,040 |  |
|  |  | 12 | 118,500 | 9,875 | 1.67 |
| 1995 | July 1-10 | 10 | 75,900 | 7,590 |  |
|  | July 30-August 5 | 7 | 21,300 | 3,043 |  |
|  |  | 17 | 97,200 | 5,718 | 0.91 |

Table 17.--Page 2 of 3.

| Year | Fishing Period | Days | Chinook Harvest | Catch/Fleet Day | Chinook Abundance Index ${ }^{\text {a }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1996 | July 1-10 | 10 | 76,400 | 7,640 |  |
|  | August 19-20 | 2 | 8,300 | 4,150 |  |
|  |  | 12 | 84,700 | 7,058 | 0.90 |
| 1997 | July 1-7 | 7 | 122,500 | 17,500 |  |
|  | August 18-24 | 7 | 49,600 | 7,086 |  |
|  | August 30- | 7 | 10,600 | 1,514 |  |
|  |  | 21 | 182,700 | 8,700 | 1.37 |
| 1998 | July 1-11 | 11 | 102,800 | 9,345 |  |
|  | August 20 - Sept. | 42 | 36,000 | 857 |  |
|  |  | 53 | 138,800 | 2,619 | 1.27 |
| 1999 | July 1-6 | 6 | 78,100 | 13,017 |  |
|  | August 18-22 | 5 | 16,400 | 3,280 |  |
|  |  | 11 | 94,500 | 8,591 | 1.12 |
| 2000 | July 1-5 | 5 | 50,768 | 10,154 |  |
|  | August 11-12 | 2 | 12,423 | 6,212 |  |
|  | August 23-30 | 8 | 24,895 | 3,112 |  |
|  | September 12-20 | 9 | 5,679 | 631 |  |
|  |  | 24 | 93,765 | 3,907 | 1.10 |
| 2001 | July 1-6 | 6 | 64,854 | 10,809 |  |
|  | August 18 - | 19 | 30,509 | 1,606 |  |
|  |  | 25 | 95,363 | 3,815 | 1.14 |
| 2002 | July 1-18 | 18 | 187,003 | 10,389 |  |
|  | August 12 - | 22 | 65,266 | 2,967 |  |
|  |  | 40 | 252,269 | 6,307 | 1.74 |
| 2003 | July 1-August 8 | 39 | 240,573 | 6,169 | 2.17 |
| 2004 |  | 15 | 193,992 | 12,933 |  |
|  | August 12-15 | 4 | $\begin{array}{r} 50,933 \\ \hline \end{array}$ | 12,733 |  |
|  |  | 19 | 244,925 | 12,891 | 2.06 |

Table 17.--Page 3 of 3.

| Year | Fishing Period | Days | Chinook Harvest | Catch/Fleet Day | Chinook Abundance Index ${ }^{\text {a }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 | July 1-17 | 17 | 151,128 | 8,890 |  |
|  | August 14-20 | 6.5 | 70,424 | 10,834 |  |
|  | September 15-20 | 6 | 5,307 | 885 |  |
|  |  | 29.5 | 226,859 | 7,690 | 1.90 |
| 2006 | July 1-12 | 12 | 129,809 | 10,817 |  |
|  | August 13-22 | 10 | 65,588 | 6,559 |  |
|  |  | 22 | 195,397 | 8,882 | 1.73 |
| 2007 | July 1-20 | 20 | 140,547 | 7,027 | 1.60 |
|  | August 16-21 | 6 | 30,885 | 5,148 |  |
|  |  | 26 | 171,432 | 6,594 |  |
| 2008 | July 1-5 | 5 | 59,903 | 11,981 |  |
|  | August 16-21 | 6 | 28,983 | 4,831 |  |
|  | Total | 11 | 88,886 | 8,081 | 1.07 |

Note: The general summer fishery does not include experimental, terminal, or hatchery access fisheries, which target Alaska hatchery stocks.
Note: These harvest numbers do not include Annette Island harvest.
${ }^{\text {a }}$ The Abundance Indices given for 1984-2008 are the first postseason estimates and for 2008 the preseason AI is used. The AI's are estimated by the Chinook Technical Committee of the Pacific Salmon Commission.

Table 18.-Coho salmon mid-season closure dates and extensions, 1980-2008.

| Year | Closure dates | Days closed | Extension | Area restrictions |
| :---: | :---: | :---: | :---: | :---: |
| 1980 | July 15-24 | 10 | None |  |
| 1981 | August 10-19 | 10 | None |  |
| 1982 | July 29-August 7 | 10 | None |  |
| 1983 | August 5-14 | 10 | None |  |
| 1984 | August 15-24 | 10 | None |  |
| 1985 | August 15-24 | 10 | None |  |
| 1986 | August 11-20 | 10 | None |  |
| 1987 | August 3-12 | 10 | None |  |
| 1988 | August 15-24 | 10 | None |  |
| 1989 | August 14-23 | 10 | None |  |
| 1990 | August 13-22 | 10 | None |  |
| 1991 | August 16-24 | 10 | None |  |
| 1992 | August 13-22 | 10 | None |  |
| 1993 | August 13-20 | 8 | None |  |
| 1994 | August 27-28 | 2 | 9/21-9/30 | Districts 1-16 open with some restrictions |
| 1995 | August 13-22 | 10 | 9/21-9/30 | Districts 1-16 open with some restrictions |
| 1996 | August 14-18 | 5 | None |  |
| 1997 | August 8-17 | 10 | None |  |
| 1998 | August 12-19 | 8 | 9/21-9/30 | Districts 1-13 open with some restrictions |
| 1999 | August 13-17 | 5 | 9/21-9/30 | Districts 1-16 open with some restrictions |
| 2000 | August 13-22 | 10 | None |  |
| 2001 | August 13-17 | 5 | 9/25-9/30 | Districts 1-16 and 183 open (all state waters)* <br> Entire region open except portion of Sitka |
| 2002 | August 10-11 | 2 | 9/21-9/30 | Sound* |
| 2003 | No closure | 0 | 9/21-9/30 | Entire region open* |
| 2004 | August 10-11 | 2 | 9/21-9/30 | Entire region open* |
| 2005 | August 10-13 | 4 | None |  |
| 2006 | August 9-12 | 4 | 9/21-9/30 | Districts 10, 12, 14, 15, 181, 183, 191, Sect. 11C |
|  | August 23-27 | 5 |  | and portions of Districts 9 and 13 |
| 2007 | August 11-15 | 5 | None |  |
| 2008 | August 11-15 | 5 | None |  |

* During these years, areas of high Chinook abundance remained closed and Yakutat area closures were in effect during coho salmon extension periods.

Table 19.-Contribution in numbers and percent of Chinook salmon produced by Alaskan hatcheries in the winter, experimental, terminal, hatchery access and general summer troll fisheries, 1989-2008. Note: Data includes Annette Island troll harvests.

| Fishery | Year | Total Harvest | Alaskan Hatcheries |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent |
| Winter | 1985 | 22,825 | 1,288 | 6\% |
|  | 1986 | 22,928 | 1,308 | 6\% |
|  | 1987 | 28,528 | 2,935 | 10\% |
|  | 1988 | 60,449 | 8,316 | 14\% |
|  | 1989 | 34,300 | 4,900 | 14\% |
|  | 1990 | 33,100 | 4,400 | 13\% |
|  | 1991 | 42,600 | 10,200 | 24\% |
|  | 1992 | 71,800 | 7,000 | 10\% |
|  | 1993 | 62,700 | 3,900 | 6\% |
|  | 1994 | 56,400 | 2,000 | 4\% |
|  | 1995 | 17,900 | 2,100 | 12\% |
|  | 1996 | 9,400 | 1,700 | 18\% |
|  | 1997 | 21,000 | 1,700 | 8\% |
|  | 1998 | 32,800 | 2,400 | 7\% |
|  | 1999 | 31,000 | 2,200 | 7\% |
|  | 2000 | 36,100 | 3,100 | 9\% |
|  | 2001 | 22,600 | 2,800 | 12\% |
|  | 2002 | 29,400 | 2,000 | 7\% |
|  | 2003 | 50,854 | 4,380 | 9\% |
|  | 2004 | 52,886 | 6,176 | 12\% |
|  | 2005 | 50,464 | 5,474 | 11\% |
|  | 2006 | 48,919 | 3,993 | 8\% |
|  | 2007 | 46,872 | 4,712 | 10\% |
|  | 2008 | 21,824 | 2,940 | 13\% |
|  | 1985-2008 Averages | 37,819 | 3,830 | 10\% |
| Spring | 1985 | NA | NA | NA |
|  | 1986 | 776 | 240 | 31\% |
|  | 1987 | 4,488 | 1,548 | 34\% |
|  | 1988 | 8,505 | 2,931 | 34\% |
|  | 1989 | 2,500 | 900 | 36\% |
|  | 1990 | 7,100 | 4,300 | 61\% |
|  | 1991 | 14,000 | 6,200 | 44\% |
|  | 1992 | 11,200 | 5,600 | 50\% |
|  | 1993 | 15,800 | 6,500 | 41\% |
|  | 1994 | 11,300 | 4,900 | 43\% |
|  | 1995 | 21,700 | 14,000 | 65\% |
|  | 1996 | 31,000 | 15,700 | 51\% |
|  | 1997 | 33,200 | 13,600 | 41\% |
|  | 1998 | 19,200 | 5,000 | 26\% |
|  | 1999 | 21,000 | 8,800 | 42\% |
|  | 2000 | 21,005 | 11,300 | 54\% |
|  | 2001 | 28,200 | 13,700 | 49\% |
|  | 2002 | 37,600 | 17,400 | 46\% |

-continued-

Table 19.--Page 2 of 3.

| Fishery | Year | Total Harvest | Alaskan Hatcheries |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent |
| Spring (cont.) | 2003 | 35,429 | 11,949 | 34\% |
|  | 2004 | 55,169 | 19,894 | 36\% |
|  | 2005 | 58,665 | 18,065 | 31\% |
|  | 2006 | 36,918 | 9,423 | 26\% |
|  | 2007 | 48,596 | 18,518 | 38\% |
|  | 2008 | 36,620 | 17,769 | 48\% |
|  | 1985-2008 Averages | 24,348 | 9,923 | 42\% |
| Terminal | 1985 | NA | NA | NA |
|  | 1986 | NA | NA | NA |
|  | 1987 | NA | NA | NA |
|  | 1988 | NA | NA | NA |
|  | 1989 | 900 | 900 | 100\% |
|  | 1990 | 16 | 16 | 100\% |
|  | 1991 | 5,900 | 5,900 | 100\% |
|  | 1992 | 4,100 | 4,100 | 100\% |
|  | 1993 | 2,800 | 2,800 | 100\% |
|  | 1994 | 100 | 100 | 100\% |
|  | 1995 | 1,300 | 1,300 | 100\% |
|  | 1996 | 16,400 | 16,400 | 100\% |
|  | 1997 | 9,500 | 9,500 | 100\% |
|  | 1998 | 1,300 | 1,300 | 100\% |
|  | 1999 | 2,400 | 2,400 | 100\% |
|  | 2000 | 8,000 | 8,000 | 100\% |
|  | 2001 | 7,100 | 7,100 | 100\% |
|  | 2002 | 6,000 | 6,000 | 100\% |
|  | 2003 | 3,826 | 3,826 | 100\% |
|  | 2004 | 1,603 | 1,603 | 100\% |
|  | 2005 | 2,280 | 2,280 | 100\% |
|  | 2006 | 1,016 | 1,016 | 100\% |
|  | 2007 | 1,310 | 1,310 | 100\% |
|  | 2008 | 4,492 | 4,492 | 100\% |
|  | 1985-2007 Averages | 4,017 | 4,017 | 100\% |
| Hatchery Access | 1989 | 30,500 | 3,800 | 12\% |
|  | 1990 | 35,000 | 6,800 | 19\% |
|  | 1991 | 46,500 | 8,600 | 18\% |
|  | 1992 | 23,600 | 6,500 | 28\% |
|  | 1989-1992 Averages | 33,900 | 6,425 | 19\% |
| General Summer | 1985 | 192,978 | 6,783 | 3.5\% |
|  | 1986 | 213,997 | 8,338 | 3.9\% |
|  | 1987 | 209,513 | 11,712 | 5.6\% |
|  | 1988 | 162,047 | 8,141 | 5.0\% |
|  | 1989 | 167,500 | 5,800 | 3.5\% |

(Note: Data includes Annette Island troll harvests).
-continued-

Table 19.-Page 3 of 3.

| Fishery | Year | Total Harvest | Alaskan Hatcheries |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent |
| General Summer | 1990 | 211,900 | 14,300 | 6.7\% |
|  | 1991 | 154,000 | 6,600 | 4.3\% |
|  | 1992 | 72,600 | 2,500 | 3.4\% |
|  | 1993 | 145,200 | 4,900 | 3.4\% |
|  | 1994 | 118,400 | 5,300 | 4.5\% |
|  | 1995 | 97,200 | 9,700 | 10.0\% |
|  | 1996 | 84,600 | 4,800 | 5.7\% |
|  | 1997 | 182,700 | 4,300 | 2.4\% |
|  | 1998 | 138,700 | 3,800 | 2.7\% |
|  | 1999 | 94,500 | 3,700 | 3.9\% |
|  | 2000 | 93,800 | 6,900 | 7.4\% |
|  | 2001 | 95,400 | 5,000 | 5.2\% |
|  | 2002 | 252,300 | 6,400 | 2.5\% |
|  | 2003 | 240,577 | 7,692 | 3.2\% |
|  | 2004 | 244,978 | 9,934 | 4.1\% |
|  | 2005 | 227,033 | 10,294 | 4.5\% |
|  | 2006 | 195,146 | 6,466 | 3.3\% |
|  | 2007 | 171,475 | 6,314 | 3.7\% |
|  | 2008 | 88,969 | 3,897 | 3.7\% |
| 1985-2007 Averages |  |  |  | \% |
| Total | 1985 | 215,803 | 8,071 | 4\% |
|  | 1986 | 237,701 | 9,886 | 4\% |
|  | 1987 | 242,529 | 16,195 | 7\% |
|  | 1988 | 231,001 | 19,388 | 8\% |
|  | 1989 | 235,716 | 16,300 | 7\% |
|  | 1990 | 287,939 | 29,816 | 10\% |
|  | 1991 | 264,106 | 37,500 | 14\% |
|  | 1992 | 183,759 | 25,700 | 14\% |
|  | 1993 | 226,866 | 24,525 | 11\% |
|  | 1994 | 186,331 | 12,300 | 7\% |
|  | 1995 | 138,117 | 32,900 | 24\% |
|  | 1996 | 141,452 | 52,900 | 37\% |
|  | 1997 | 246,409 | 35,700 | 14\% |
|  | 1998 | 192,066 | 15,000 | 8\% |
|  | 1999 | 146,219 | 22,000 | 15\% |
|  | 2000 | 158,717 | 34,600 | 22\% |
|  | 2001 | 153,280 | 38,300 | 25\% |
|  | 2002 | 325,308 | 36,600 | 11\% |
|  | 2003 | 330,692 | 32,147 | 10\% |
|  | 2004 | 354,664 | 37,607 | 11\% |
|  | 2005 | 338,442 | 36,113 | 11\% |
|  | 2006 | 281,999 | 20,898 | 7\% |
|  | 2007 | 268,253 | 30,854 | 12\% |
|  | 2008 | 151,906 | $\mathbf{2 9 , 6 9 3}$ | 44\% |
|  | 1985-2008 Averages | 230,803 | 27,291 | 13\% |

Note: Data includes Annette Island troll harvests

Table 20.-Total Chinook salmon harvest and Alaska hatchery harvest by gear, 1985-2007.


Note: Data includes Terminal area and Annette Island harvests.
${ }^{\text {a }} 2007$ sport fish harvest numbers are inseason estimates. Final estimates pending analyses of mail-in survey data.

Table 21.-Total Southeast Alaska troll coho salmon harvest and estimated wild and hatchery contributions, 1960-2008.

| Year | Total Harvest |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | | Wild |
| ---: |
| Contribution | | Alaska |
| ---: |
| Hatchery | | Other |
| ---: |
| Hatchery | | Total |
| ---: |
| Hatchery | | Percent |
| ---: |
| Hatchery |

Note: Data includes Annette Island troll harvest.

Table 22.-Estimates of total escapements of Chinook salmon to escapement indicator systems and to Southeast Alaska and transboundary rivers, 1975-2008.

| Year | MAJOR SYSTEMS |  |  |  | MEDIUM SYSTEMS |  |  |  |  |  |  |  | SMALL <br> SYSTEMSKing Salmon | $\begin{array}{r} \text { TOTAL } \\ \text { ALL } \\ \text { SYSTEMS } \end{array}$ | Expanded Region Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alsek | Taku | Stikine | Major Subtotal | Situk | Chilkat | Andrew | Unuk | Chickamin | Blossom | Keta | Medium Subtotal |  |  |  |
| 1975 |  | 12,917 | 7,571 |  |  |  | 508 |  | 1,758 | 439 | 611 |  | 64 |  |  |
| 1976 | 5,765 | 24,575 | 5,723 | 36,063 | 1,421 |  | 404 |  | 745 | 205 | 253 |  | 99 |  |  |
| 1977 | 10,496 | 29,489 | 11,445 | 51,430 | 1,732 |  | 456 | 4,870 | 1,722 | 337 | 692 | 9,810 | 204 | 61,444 | 73,147 |
| 1978 | 11,754 | 17,118 | 6,835 | 35,707 | 808 |  | 388 | 5,530 | 1,465 | 430 | 1,180 | 9,801 | 87 | 45,595 | 54,280 |
| 1979 | 18,670 | 21,611 | 12,610 | 52,891 | 1,284 |  | 327 | 2,880 | 1,133 | 162 | 1,283 | 7,069 | 134 | 60,093 | 71,540 |
| 77-79 Avg. | 13,640 | 22,740 | 10,297 | 46,676 | 1,275 |  | 390 | 4,427 | 1,440 | 310 | 1,052 | 8,893 | 141 | 55,711 | 66,322 |
| 1980 | 8,077 | 39,229 | 30,573 | 77,879 | 905 |  | 282 | 5,080 | 2,112 | 268 | 578 | 9,225 | 106 | 87,210 | 103,821 |
| 1981 | 8,327 | 49,546 | 36,057 | 93,929 | 702 |  | 536 | 3,655 | 1,824 | 478 | 990 | 8,186 | 153 | 102,268 | 121,748 |
| 1982 | 9,174 | 23,842 | 40,488 | 73,504 | 434 |  | 672 | 6,755 | 2,712 | 1,038 | 2,270 | 13,881 | 393 | 87,778 | 104,498 |
| 1983 | 11,028 | 9,792 | 6,424 | 27,243 | 592 |  | 366 | 5,625 | 2,847 | 1,772 | 2,475 | 13,676 | 245 | 41,165 | 49,006 |
| 1984 | 7,494 | 20,774 | 13,995 | 42,263 | 1,726 |  | 389 | 9,185 | 5,235 | 1,528 | 1,836 | 19,899 | 265 | 62,427 | 74,318 |
| 1985 | 5,758 | 35,906 | 16,672 | 58,336 | 1,521 |  | 625 | 5,920 | 4,541 | 2,133 | 1,879 | 16,618 | 175 | 75,129 | 89,439 |
| 1986 | 9,981 | 38,100 | 15,478 | 63,559 | 2,067 |  | 1,383 | 10,630 | 8,289 | 3,844 | 2,077 | 28,291 | 255 | 92,105 | 109,649 |
| 1987 | 11,395 | 28,928 | 25,607 | 65,929 | 1,379 |  | 1,540 | 9,865 | 4,631 | 4,058 | 2,312 | 23,785 | 196 | 89,910 | 107,036 |
| 1988 | 8,227 | 44,512 | 39,040 | 91,778 | 868 |  | 1,102 | 8,730 | 3,734 | 1,155 | 1,731 | 17,320 | 208 | 109,306 | 130,126 |
| 1989 | 9,105 | 40,329 | 25,243 | 74,676 | 637 |  | 1,036 | 5,745 | 4,437 | 1,035 | 3,477 | 16,366 | 240 | 91,283 | 108,670 |
| 80-89 Avg | 8,856 | 33,096 | 24,958 | 66,910 | 1,083 |  | 793 | 7,119 | 4,036 | 1,731 | 1,963 | 16,725 | 224 | 83,858 | 99,831 |
| 1990 | 8,794 | 52,142 | 23,514 | 84,449 | 628 |  | 1,298 | 2,955 | 2,679 | 773 | 1,824 | 10,157 | 179 | 94,785 | 112,839 |
| 1991 | 12,722 | 51,645 | 24,124 | 88,491 | 889 | 5,897 | 782 | 3,275 | 2,313 | 719 | 819 | 14,694 | 134 | 103,319 | 114,798 |
| 1992 | 5,519 | 55,889 | 35,479 | 96,887 | 1,595 | 5,284 | 1,520 | 4,370 | 1,644 | 451 | 653 | 15,517 | 99 | 112,503 | 125,004 |
| 1993 | 12,688 | 66,125 | 61,295 | 140,108 | 952 | 4,472 | 2,071 | 5,340 | 1,848 | 911 | 1,090 | 16,684 | 266 | 157,058 | 174,509 |
| 1994 | 12,312 | 48,368 | 34,403 | 95,083 | 1,271 | 6,795 | 1,118 | 4,623 | 1,843 | 484 | 921 | 17,055 | 213 | 112,351 | 124,834 |
| 1995 | 25,322 | 33,805 | 17,448 | 76,575 | 4,330 | 3,790 | 670 | 3,860 | 2,309 | 653 | 527 | 16,139 | 147 | 92,861 | 103,179 |
| 1996 | 14,443 | 79,019 | 28,949 | 122,411 | 1,800 | 4,920 | 655 | 5,835 | 1,587 | 662 | 894 | 16,352 | 292 | 139,055 | 154,506 |
| 1997 | 12,697 | 114,938 | 26,996 | 154,631 | 1,878 | 8,100 | 478 | 2,970 | 1,292 | 397 | 741 | 15,856 | 361 | 170,848 | 189,831 |
| 1998 | 4,969 | 31,039 | 25,968 | 61,976 | 924 | 3,675 | 952 | 4,132 | 1,857 | 364 | 446 | 12,350 | 134 | 74,460 | 82,733 |
| 1999 | 13,617 | 19,734 | 19,947 | 53,298 | 1,461 | 2,271 | 1,182 | 3,914 | 2,337 | 638 | 968 | 12,771 | 304 | 66,373 | 73,747 |
| 90-99 Avg | 12,308 | 55,270 | 29,812 | 97,391 | 1,573 | 5,023 | 1,073 | 4,127 | 1,971 | 605 | 888 | 14,758 | 213 | 112,361 | 125,598 |

-continued-

Table 22.-Page 2 of 2.

| Year | MAJOR SYSTEMS |  |  |  | MEDIUM SYSTEMS |  |  |  |  |  |  |  | SMALL <br> SYSTEMSKing Salmon | $\begin{gathered} \text { TOTAL } \\ \text { ALL } \\ \text { SYSTEMS } \end{gathered}$ | Expanded Region Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alsek | Taku | Stikine | Major Subtotal | Situk | Chilkat | Andrew | Unuk | Chickamin | Blossom | Keta | Medium Subtotal |  |  |  |
| 2000 | 6,835 | 30,529 | 27,531 | 64,895 | 1,785 | 2,035 | 1,348 | 5,872 | 3,805 | 695 | 913 | 16,453 | 138 | 81,486 | 90,540 |
| 2001 | 6,111 | 42,980 | 63,523 | 112,614 | 656 | 4,517 | 2,060 | 10,541 | 5,177 | 614 | 1,033 | 24,597 | 149 | 137,360 | 152,622 |
| 2002 | 5,396 | 52,409 | 50,875 | 108,680 | 1,000 | 4,050 | 1,712 | 6,988 | 5,007 | 674 | 1,237 | 20,668 | 155 | 129,503 | 143,892 |
| 2003 | 4,782 | 36,435 | 46,824 | 88,041 | 2,117 | 5,657 | 1,163 | 5,546 | 4,579 | 611 | 969 | 20,642 | 118 | 108,801 | 120,890 |
| 2004 | 6,995 | 68,199 | 48,900 | 124,094 | 755 | 3,422 | 2,998 | 3,963 | 4,268 | 734 | 1,132 | 17,272 | 135 | 141,501 | 157,223 |
| 2005 | 4,462 | 38,806 | 40,501 | 83,769 | 613 | 3,366 | 1,979 | 4,742 | 4,257 | 926 | 1,496 | 17,379 | 143 | 101,291 | 112,546 |
| 2006 | 1,883 | 41,831 | 24,400 | 68,114 | 749 | 3,039 | 2,124 | 5,645 | 6,318 | 1,270 | 2,248 | 21,393 | 150 | 89,657 | 99,618 |
| 2007 | 2,618 | 17,516 | 16,038 | 36,172 | 677 | 1,378 | 1,736 | 5,718 | 4,242 | 406 | 936 | 15,093 | 181 | 51,446 | 57,162 |
| 2008 | 1,939 | 24,121 | 21,900 | 47,960 | 413 | 3,233 | 981 | 3,053 | 5,159 | 774 | 1,093 | 14,706 | 120 | 62,786 | 69,762 |
| 00-07 Ave | 4,885 | 39,203 | 37,832 | 81,593 | 974 | 3,411 | 1,789 | 5,785 | 4,707 | 745 | 1,229 | 18,689 | 143 | 100,426 | 111,584 |
| Change from 2007 to 2008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number | -679 | 6,605 | 5,862 | 11,788 | -264 | 1,855 | -755 | -2,665 | 917 | 368 | 157 | -387 | -61 | 11,340 | 12,600 |
| Percent | -36\% | 16\% | 24\% | 17\% | -35\% | 61\% | -36\% | -47\% | 15\% | 29\% | 7\% | -2\% | -41\% | 13\% | 13\% |
| Goals ${ }^{\text {a }}$ : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lower | 5,500 | 30,000 | 14,000 | 49,500 | 450 | 1,750 | 650 | 3,250 | 2,326 | 750 | 750 | 9,926 | 120 | 59,546 | 66,162 |
| Point | 8,500 | 36,000 | 17,500 | 62,000 | 730 | 2,200 | 750 | 4,000 | 3,490 | 1,125 | 1,125 | 13,420 | 150 | 75,570 | 83,967 |
| Upper | 11,500 | 55,000 | 28,000 | 94,500 | 1,050 | 3,500 | 1,500 | 7,000 | 4,653 | 1,500 | 1,500 | 20,703 | 240 | 115,443 | 128,270 |

Note: Bold numbers in table are weir counts or mark-recapture estimates. Other numbers are index escapements expanded for survey counting rates and unsurveyed tributaries.
${ }^{\text {a }}$ Total Escapement goals for Alsek, Unuk, Chickamin, Blossom and Keta have not been agreed on. Numbers for those 5 are just expanded index goals for comparison.

Table 23.-Escapement goal performance for indicator coho salmon streams in Southeast Alaska. $\mathrm{E}=$ exceeded goal, $\mathrm{U}=$ under goal, $\mathrm{I}=$ within goal, NA = no escapement estimate available.

| Year | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Southeast Alaska Area |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Auke Cr. | E | E | E | I | E | E | E | E | E | E | E | E | I | I | E | I | E |
| Berners R. | E | E | E | I | I | E | I | E | E | E | E | E | E | I | I | U | I |
| Ford Arm L. | E | E | E | I | I | E | E | E | I | I | E | E | E | E | E | I | E |
| Hugh Smith L. | E | I | E | E | I | I | I | E | I | E | E | E | I | E | I | E | E |
| Chilkat River | E | E | E | E | I | I | I | E | E | E | E | E | E | I | E | U | I |
| Montana Cr. | E | E | E | I | I | I | I | I | I | I | E | I | U | U | I | U | I |
| Petersen Cr. | E | I | E | E | E | I | I | E | I | I | I | I | E | I | E | I | E |
| Sitka Index | E | E | E | E | E | E | E | I | E | E | E | E | E | E | E | E | E |
| Ketchikan Index | I | I | E | E | E | I | I | I | E | E | E | E | E | E | I | I | E |

Yakutat Area

| Lost R. | I | I | E | I | I | I | NA | NA | NA | NA | E | E | I | U | I | I | NA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Situk R. | E | E | E | I | I | I | NA | NA | NA | NA | E | I | E | U | I | I | NA |
| Tsiu/Tsivat R. | E | I | E | I | I | I | NA | NA | I | NA | E | NA | NA | I | I | I | I |
| All-Gear Commercial Harvest (in Millions) | 3.4 | 3.6 | 5.5 | 3.1 | 3.0 | 1.8 | 2.8 | 3.3 | 1.7 | 3.0 | 2.5 | 2.2 | 2.9 | 2.8 | 1.8 | 1.9 | 2.1 |

Table 24.-Escapement estimates for 4 Southeast Alaska coho salmon indicator stocks, 1980-2008.

| Year | Auke Creek | Berners River | Ford Arm Lake | Hugh Smith |
| :---: | :---: | :---: | :---: | :---: |
| $1980^{\text {a }}$ | 698 | N/A | N/A | N/A |
| $1981{ }^{\text {a }}$ | 646 | N/A | N/A | N/A |
| 1982 | 447 | 7,505 | 2,662 | 2,144 |
| 1983 | 694 | 9,840 | 1,938 | 1,490 |
| 1984 | 651 | 2,825 | N/A | 1,408 |
| 1985 | 942 | 6,169 | 2,324 | 903 |
| 1986 | 454 | 1,752 | 1,546 | 1,783 |
| 1987 | 668 | 3,260 | 1,694 | 1,118 |
| 1988 | 756 | 2,724 | 3,028 | 513 |
| 1989 | 502 | 7,509 | 2,177 | 433 |
| 1990 | 697 | 11,050 | 2,190 | 870 |
| 1991 | 808 | 11,530 | 2,761 | 1,826 |
| 1992 | 1,020 | 15,300 | 3,847 | 1,426 |
| 1993 | 859 | 15,670 | 4,202 | 830 |
| 1994 | 1,437 | 15,920 | 3,228 | 1,753 |
| 1995 | 460 | 4,945 | 2,445 | 1,781 |
| 1996 | 515 | 6,050 | 2,500 | 950 |
| 1997 | 609 | 10,050 | 4,965 | 732 |
| 1998 | 862 | 6,802 | 7,049 | 983 |
| 1999 | 845 | 9,920 | 3,598 | 1,246 |
| 2000 | 683 | 10,650 | 2,287 | 600 |
| 2001 | 842 | 19,290 | 2,178 | 1,580 |
| 2002 | 1,112 | 27,700 | 7,109 | 3,291 |
| 2003 | 585 | 10,110 | 6,789 | 1,510 |
| 2004 | 416 | 14,450 | 3,539 | 840 |
| 2005 | 450 | 5,220 | 4,257 | 1,732 |
| 2006 | 582 | 5,470 | 4,737 | 891 |
| 2007 | 352 | 3,915 | 2,567 | 1,224 |
| 2008 | 600 | 6,870 | 5,173 | 1,741 |
| Average 1980-2007 | 700 | 9,447 | 3,425 | 1,302 |
| Escapement Goal Range: | 200-500 | 4,000-9,200 | 1,300-2,900 | 500-1,100 |

${ }^{2}$ Years when no escapement assessment occurred are indicated by "N/A".

Table 25.-Northern Inside area coho salmon escapements, 1981-2008.

| Year | Auke Creek (Weir) | Montana Creek | Peterson Creek | Total Roadside Index | Berners River | Chilkat <br> River | Taku <br> River |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1981 | 646 | 227 | 219 | 2,198 |  |  |  |
| 1982 | 447 | 545 | 320 | 1,992 | 7,505 |  |  |
| 1983 | 694 | 636 | 219 | 1,981 | 9,840 |  |  |
| 1984 | 651 | 581 | 189 | 1,963 | 2,825 |  |  |
| 1985 | 942 | 810 | 276 | 2,408 | 6,169 |  |  |
| 1986 | 454 | 60 | 363 | 1,341 | 1,752 |  |  |
| 1987 | 668 | 314 | 204 | 1,613 | 3,260 | 37,237 | 55,457 |
| 1988 | 756 | 164 | 542 | 1,883 | 2,724 | 29,341 | 39,450 |
| 1989 | 502 | 566 | 242 | 1,743 | 7,509 | 48,578 | 56,808 |
| 1990 | 697 | 1,711 | 324 | 3,215 | 11,050 | 79,807 | 72,196 |
| 1991 | 808 | 1,415 | 410 | 3,449 | 11,530 | 84,076 | 127,484 |
| 1992 | 1,020 | 2,512 | 403 | 5,425 | 15,300 | 77,184 | 84,853 |
| 1993 | 859 | 1,352 | 112 | 3,210 | 15,670 | 57,913 | 109,457 |
| 1994 | 1,437 | 1,829 | 318 | 4,353 | 15,920 | 193,411 | 96,343 |
| 1995 | 460 | 600 | 277 | 1,865 | 4,945 | 56,441 | 55,710 |
| 1996 | 511 | 798 | 263 | 1,802 | 6,050 | 37,136 | 44,635 |
| 1997 | 609 | 1,018 | 186 | 2,080 | 10,050 | 43,292 | 32,345 |
| 1998 | 862 | 1,160 | 102 | 2,378 | 6,802 | 50,758 | 61,382 |
| 1999 | 845 | 1,000 | 272 | 2,607 | 9,920 | 56,842 | 60,844 |
| 2000 | 683 | 961 | 202 | 2,038 | 10,650 | 88,157 | 64,700 |
| 2001 | 842 | 1,119 | 106 | 2,602 | 19,290 | 108,131 | 104,460 |
| 2002 | 1,112 | 2,448 | 195 | 5,655 | 27,700 | 205,429 | 219,360 |
| 2003 | 585 | 808 | 203 | 2,174 | 10,110 | 134,340 | 183,038 |
| 2004 | 416 | 364 | 284 | 1,253 | 14,450 | 67,113 | 132,405 |
| 2005 | 450 | 351 | 139 | 1,177 | 5,220 | 38,504 | 91,830 |
| 2006 | 582 | 1,110 | 439 | 2,131 | 5,470 | 80,658 | 140,028 |
| 2007 | 352 | 324 | 226 | 902 | 3,915 | 25,149 | 49,632 |
| Average | 700 | 918 | 261 | 1,878 | 9,447 | 57,376 | 85,575 |
| 2008 | 600 | 405 | 660 | 1,665 | 6,870 | 57,376 | 49,632 |
| Goals: |  |  |  |  |  |  |  |
| Point | 340 |  |  |  | 6,300 | 50,000 |  |
| Lower | 200 | 400 | 100 |  | 4,000 | 30,000 | 35,000 |
| Upper | 500 | 1,200 | 250 |  | 9,200 | 70,000 |  |

Table 26.-Sitka area coho salmon escapement index, 1982-2008.

| Year | Starrigavan Creek | Sinitsin Creek | $\begin{array}{r} \text { St. } \\ \text { John's } \\ \text { Creek } \end{array}$ | Nakwasina River | Eagle River | Black River | Ford Arm Lake (Weir) | Total Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1982 | 317 | 46 | 116 | 577 | 482 | 749 | 2,662 | 4,950 |
| 1983 | 45 | 31 | 20 | 217 | 143 | 427 | 1,938 | 2,821 |
| 1984 | 385 | 160 | 154 | 715 | 645 | 425 | 4,232 | 6,716 |
| 1985 | 193 | 144 | 109 | 408 | 390 | 1,628 | 2,324 | 5,196 |
| 1986 | 57 | 73 | 53 | 275 | 245 | 312 | 1,546 | 2,561 |
| 1987 | 36 | 21 | 22 | 47 | 167 | 262 | 1,694 | 2,249 |
| 1988 | 45 | 56 | 71 | 104 | 126 | 280 | 3,028 | 3,710 |
| 1989 | 101 | 76 | 89 | 129 | 180 | 181 | 2,177 | 2,933 |
| 1990 | 39 | 80 | 38 | 195 | 214 | 842 | 2,190 | 3,598 |
| 1991 | 142 | 186 | 107 | 621 | 454 | 690 | 2,761 | 4,961 |
| 1992 | 241 | 265 | 110 | 654 | 629 | 866 | 3,847 | 6,612 |
| 1993 | 256 | 213 | 90 | 644 | 513 | 764 | 4,202 | 6,682 |
| 1994 | 304 | 313 | 227 | 404 | 717 | 758 | 3,228 | 5,951 |
| 1995 | 274 | 152 | 99 | 626 | 336 | 1,265 | 2,445 | 5,197 |
| 1996 | 59 | 150 | 201 | 553 | 488 | 500 | 2,500 | 4,451 |
| 1997 | 55 | 90 | 68 | 300 | 296 | 686 | 4,965 | 6,460 |
| 1998 | 123 | 109 | 57 | 653 | 300 | 1,520 | 7,049 | 9,811 |
| 1999 | 167 | 48 | 27 | 291 | 243 | 1,590 | 3,598 | 5,964 |
| 2000 | 144 | 62 | 30 | 459 | 108 | 880 | 2,287 | 3,970 |
| 2001 | 133 | 132 | 80 | 703 | 417 | 1,080 | 2,178 | 4,723 |
| 2002 | 227 | 169 | 100 | 713 | 659 | 1,194 | 7,109 | 10,171 |
| 2003 | 95 | 102 | 91 | 440 | 373 | 1,055 | 6,789 | 8,945 |
| 2004 | 143 | 112 | 79 | 399 | 391 | 380 | 3,539 | 5,043 |
| 2005 | 76 | 67 | 173 | 892 | 460 | 160 | 4,257 | 6,085 |
| 2006 | 386 | 152 | 121 | 996 | 992 | 1,100 | 4,737 | 8,484 |
| 2007 | 130 | 39 | 86 | 385 | 426 | 745 | 2,567 | 4.378 |
| Average | 161 | 117 | 93 | 477 | 400 | 782 | 3,456 | 5,485 |
| 2008 | 96 | 73 | 43 | 839 | 66 | 500 | 5,173 | 6,790 |

Note: Total index is the sum of counts and interpolated values. Interpolated values are shown in bold italic print.

Table 27.-Southern inside (Ketchikan) area coho salmon escapement index, 1987-2008.

| Year | Herman Creek | Grant Creek | Eulachon River | Klahini River | Indian River | Barrier Creek | King Creek | Choca Creek | Carroll River | Blossum <br> River | Keta <br> River | Marten River | Hugh Smith L. (Weir) | Humpback Creek | $\begin{gathered} \text { Tombstone } \\ \text { River } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Index } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1987 | 92 | 88 | 154 | 62 | 387 | 98 | 304 | 145 | 180 | 700 | 800 | 740 | 1,118 | 650 | 532 | 6,051 |
| 1988 | 72 | 150 | 205 | 20 | 300 | 50 | 175 | 150 | 193 | 790 | 850 | 600 | 513 | 52 | 1,400 | 5,520 |
| 1989 | 75 | 101 | 290 | 15 | 925 | 450 | 510 | 200 | 70 | 1,000 | 650 | 1,175 | 433 | 350 | 950 | 7,194 |
| 1990 | 150 | 30 | 235 | 150 | 282 | 72 | 35 | 105 | 139 | 800 | 550 | 575 | 870 | 135 | 275 | 4,403 |
| $1991$ | 245 | 50 | 285 | 50 | 550 | 100 | 300 | 220 | 375 | 725 | 800 | 575 | 1,826 | 671 | 775 | 7,547 |
| 1992 | 115 | 270 | 860 | 90 | 675 | 100 | 250 | 150 | 360 | 650 | 627 | 1,285 | 1,426 | 550 | 1,035 | 8,443 |
| 1993 | 90 | 175 | 460 | 50 | 475 | 325 | 110 | 300 | 310 | 850 | 725 | 1,525 | 830 | 600 | 1,275 | 8,100 |
| 1994 | 265 | 220 | 755 | 200 | 560 | 175 | 325 | 225 | 475 | 775 | 1,100 | 2,205 | 1,753 | 560 | 850 | 10,443 |
| $1995$ | 250 | 94 | 435 | 165 | 600 | 220 | 415 | 180 | 400 | 800 | 1,155 | 1,385 | 1,781 | 82 | 2,446 | 10,408 |
| 1996 | 94 | 92 | 383 | 40 | 570 | 230 | 457 | 220 | 240 | 829 | 1,506 | 1,924 | 958 | 440 | 1,806 | 9,789 |
| 1997 | 75 | 85 | 420 | 60 | 371 | 94 | 292 | 175 | 140 | 1,143 | 571 | 759 | 732 | 32 | 847 | 5,795 |
| $1998$ | 94 | 130 | 460 | 120 | 304 | 50 | 411 | 190 | 255 | 1,004 | 1,169 | 1,961 | 983 | 256 | 666 | 8,053 |
| 1999 | 75 | 127 | 657 | 150 | 356 | 25 | 627 | 225 | 425 | 598 | 1,895 | 1,518 | 1,246 | 520 | 840 | 9,284 |
| 2000 | 135 | 94 | 600 | 110 | 380 | 72 | 620 | 180 | 275 | 1,354 | 1,619 | 1,421 | 600 | 102 | 1,672 | 9,234 |
| 2001 | 80 | 110 | 929 | 151 | 1,140 | 212 | 891 | 450 | 173 | 1,561 | 1,612 | 1,956 | 1,580 | 506 | 1,704 | 13,055 |
| 2002 | 88 | 138 | 1,105 | 20 | 940 | 70 | 700 | 220 | 270 | 1,359 | 1,368 | 2,302 | 3,291 | 2,004 | 1,639 | 15,514 |
| 2003 | 242 | 197 | 875 | 39 | 690 | 57 | 1,140 | 380 | 427 | 1,940 | 1,934 | 1,980 | 1,615 | 214 | 1,745 | 13,474 |
| 2004 | 150 | 230 | 801 | 170 | 935 | 250 | 640 | 180 | 455 | 1,005 | 1,200 | 1,835 | 840 | 1,230 | 823 | 10,744 |
| 2005 | 510 | $300$ | $1,240$ | 360 | 890 | 190 | 810 | 270 | 500 | 3,680 | 3,290 | 1,130 | 1,732 | 500 | 1,170 | 16,572 |
| 2006 | 165 | 124 | 190 | 176 | 280 | 30 | 405 | 130 | 272 | 2,300 | 645 | 335 | 891 | 260 | 1,600 | 7,803 |
| 2007 | $134$ | 75 | 298 | 35 | 245 | 15 | 290 | 210 | 171 | 990 | 970 | 351 | 1,224 | 3 | 701 | 5,712 |
| Average | 152 | 137 | 554 | 106 | 565 | 137 | 462 | 215 | 291 | 1,183 | 1,192 | 1,311 | 1,245 | 463 | 1,179 | 9,192 |
| 2008 | 115 | 55 | 570 | 25 | 1,250 | 23 | 420 | 100 | 613 | 7,100 | 2,524 | 925 | 1,741 | 2,600 | 360 | 18,421 |

Note: Total index is the sum of counts and interpolated values. Interpolated values are shown in italic print.

Table 28.-Overall coho salmon percentage exploitation rates by indicator stock for the Alaska troll fishery and all fisheries combined, 1982-2008.

| Year | Auke Lake | Berners River | Ford Arm Lake | Hugh Smith Lake | Weighted Average |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Troll Fishery: |  |  |  |  |  |
| 1982 | 20 | 42 | 41 | 46 | 37 |
| 1983 | 31 | 50 | 54 | 35 | 43 |
| 1984 | 34 |  |  | 31 | 39 |
| 1985 | 35 | 45 | 51 | 36 | 42 |
| 1986 | 43 | 55 | 61 | 35 | 49 |
| 1987 | 37 | 53 | 45 | 28 | 41 |
| 1988 | 25 | 40 | 48 | 27 | 35 |
| 1989 | 48 | 53 | 62 | 50 | 53 |
| 1990 | 43 | 44 | 56 | 39 | 46 |
| 1991 | 17 | 18 | 53 | 37 | 31 |
| 1992 | 32 | 33 | 56 | 38 | 40 |
| 1993 | 38 | 39 | 62 | 53 | 48 |
| 1994 | 35 | 37 | 60 | 46 | 44 |
| 1995 | 32 | 31 | 48 | 30 | 35 |
| 1996 | 39 | 44 | 53 | 40 | 44 |
| 1997 | 12 | 16 | 48 | 48 | 31 |
| 1998 | 31 | 44 | 49 | 41 | 41 |
| 1999 | 34 | 40 | 59 | 42 | 44 |
| 2000 | 24 | 25 | 57 | 36 | 35 |
| 2001 | 31 | 28 | 68 | 22 | 37 |
| 2002 | 18 | 17 | 38 | 17 | 22 |
| 2003 | 23 | 24 | 31 | 24 | 26 |
| 2004 | 27 | 32 | 64 | 41 | 41 |
| 2005 | 33 | 37 | 51 | 32 | 38 |
| 2006 | 22 | 26 | 40 | 37 | 31 |
| 2007 | 25 | 34 | 66 | 40 | 41 |
| 2008 | 30 | 27 | 41 | 19 | 29 |
| 1982-2007 Avg. | 30 | 36 | 53 | 37 | 39 |
| All Fisheries: |  |  |  |  |  |
| 1982 | 40 | 76 | 44 | 65 | 56 |
| 1983 | 44 | 71 | 69 | 62 | 61 |
| 1984 | 41 |  |  | 65 | 58 |
| 1985 | 44 | 75 | 51 | 63 | 58 |
| 1986 | 53 | 93 | 62 | 60 | 67 |
| 1987 | 43 | 77 | 48 | 52 | 55 |
| 1988 | 37 | 82 | 49 | 66 | 59 |
| 1989 | 55 | 62 | 65 | 82 | 66 |
| 1990 | 53 | 67 | 58 | 81 | 65 |
| 1991 | 31 | 67 | 54 | 68 | 55 |

Table 28.-Page 2 of 2.

| Year | Auke <br> Lake | Berners <br> River | Ford Arm <br> Lake | Hugh Smith <br> Lake | Weighted <br> Average |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 1992 | 46 | 67 | 59 | 71 | 60 |
| 1993 | 46 | 68 | 67 | 81 | 65 |
| 1994 | 53 | 78 | 72 | 81 | 71 |
| 1995 | 44 | 83 | 67 | 74 | 67 |
| 1996 | 55 | 75 | 58 | 76 | 66 |
| 1997 | 20 | 35 | 51 | 72 | 45 |
| 1998 | 39 | 71 | 56 | 77 | 61 |
| 1999 | 41 | 70 | 64 | 70 | 61 |
| 2000 | 30 | 51 | 72 | 55 | 52 |
| 2001 | 38 | 40 | 75 | 49 | 51 |
| 2002 | 27 | 45 | 53 | 39 | 41 |
| 2003 | 35 | 65 | 49 | 59 | 52 |
| 2004 | 44 | 56 | 71 | 66 | 59 |
| 2005 | 37 | 59 | 58 | 53 | 52 |
| 2006 | 33 | 66 | 52 | 53 | 51 |
| 2007 | 34 | 54 | 71 | 61 | 55 |
| $\mathbf{2 0 0 8}$ | $\mathbf{3 9}$ | $\mathbf{5 1}$ | $\mathbf{5 3}$ | $\mathbf{5 2}$ | $\mathbf{4 9}$ |
| $1982-2007$ Avg. | 41 | 66 | 60 | 66 | 58 |

## FIGURES



Figure 1.-Map of Southeast Alaska Region 1 commercial troll fishing districts.


Figure 2.-All-gear harvests of Chinook salmon in common property fisheries, 1890-2008.


Figure 3.-Average weekly coho harvest timing of the Southeast Alaska commercial troll and drift gillnet fisheries (1980-2008), and the average weekly coho salmon escapement timing of the Hugh Smith Lake, Ford Arm Lake and Auke Creek weirs (1980-2008).


Figure 4.-Commercial all-gear harvests of coho salmon in common property fisheries, 1890-2008.


Figure 5.-Southeast Alaska troll coho salmon harvest in the outside (Gulf of Alaska) districts, the inside districts and the percentage of harvest taken in the outside districts, 1970-2008.

Note: Outside districts are 103, 104, 113, 116, 152, 154, 156, 157, 181, 183, 189, 191; inside districts are 101, 102, 105, 106, 107, 108, 109, 110, 111, 112, 114 .


Figure 6.-Number of troll permits fished by gear type, 1975-2008.


Figure 7.-Number of troll permits fished in the general summer, winter, and spring fisheries, 1980-2008.


Figure 8.-General summer troll fishery boat-days of effort during Chinook retention and Chinook non-retention fishing periods, 1981-2008.


Figure 9.-Southeast Alaska winter troll fishery Chinook salmon harvests and landings, 1980-2008.


Figure 10.-Southeast Alaska winter troll harvest and catch per landing for troll gear, 1980-2008.


Figure 11.-Map of spring troll areas. Shaded areas were open in 2008.


Figure 12.-Map of closed areas of high Chinook salmon abundance (shaded areas).




Figure 13.-Average power troll coho salmon harvest per boat day for Southeast Alaska, by area, for 2008 and the 1988-2007 average.
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Figure 13.-Page 2 of 2.





Statistical Week
Figure 14.-Cumulative coho salmon harvest-per-boat-day for the 4 indicator drift gillnet fisheries and the Juneau marine sport fishery, for 2008 and the 1971-1980 average.
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Figure 15.-Cumulative mark-recapture abundance estimate for Taku River coho salmon from Canyon Island fish wheels, for 2008 and the 1987-2007 average.

Note: Much of the weekly data are interpolated due to a paucity of available data from the Canadian in-river fishery for most weeks.


Figure 16.-Cumulative weekly catch of coho salmon in the Chilkat River fish wheels, for 2008 and the 1998-2007 average.


Figure 17.-Alaska hatchery Chinook salmon contributions to the Southeast Alaska troll fishery, 1980-2008.


Figure 18.-Hatchery contributions of coho salmon to the Southeast Alaska troll fishery, 1980-2008.


Figure 19.-Total run size, catch, escapement and biological escapement goal range for 4 wild Southeast Alaska coho salmon stocks, 1982-2008.



$\checkmark$


Southern Inside Area


Figure 20.-Coho salmon escapement counts and estimates in index streams in 6 areas of Southeast Alaska, 1981-2008.


Figure 21.-Estimated total exploitation rates by all fisheries for 4 coded-wire tagged Southeast Alaska coho salmon stocks, 1982-2008.



Figure 22.-Estimated exploitation rates by the Alaskan troll fishery for 4 coded-wire tagged Southeast Alaska coho salmon stocks, 1982-2008.


[^0]:    ${ }^{1}$ Under the terms of the PST, the number of PST (or quota) fish is the total harvest minus the add-on. The add-on is the number of Alaska hatchery produced Chinook salmon minus: 1) 5,000 fish for pre-treaty harvests of Alaska hatchery Chinook salmon and 2) a risk factor. The risk factor is the standard deviation of the estimate of the total number of Alaska hatchery Chinook salmon.

[^1]:    ${ }^{\text {a }}$ In 1988, the southern areas of Southeast Alaska were closed due to coho salmon conservation concerns.
    ${ }^{\text {b }}$ In 1997, the northern areas of Southeast Alaska were closed due to coho salmon conservation concerns.

[^2]:    Note: Harvests shown include hatchery terminal area and Annette Island catches.

