PACIFIC SALMON COMMISSION JOINT NORTHERN BOUNDARY TECHNICAL COMMITTEE REPORT

U.S./CANADA NORTHERN BOUNDARY AREA 2009 SALMON FISHERIES MANAGEMENT REPORT AND 2010 PRELIMINARY EXPECTATIONS

## REPORT TCNB (10)-1

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## EXECUTIVE SUMMARY

This report reviews:

1) catch, effort, and management actions in the 2009 Northern Boundary Area troll and net fisheries of southern Southeast Alaska Districts 101 to 108 and northern British Columbia Areas 1, 3, 4, and 5;
2) management performance relative to Treaty requirements for pink salmon;
3) preliminary expectations and fishing plans for 2010.

Historical catch and effort data by district or area, gear, species, and week are no longer reported annually in this report. They can be referenced in Pacific Salmon Commission, Northern Boundary Technical Committee Report, U.S. / Canada Northern Boundary Area 1999 Salmon Fisheries Management Report and 2000 Preliminary Expectations. Report TCNB (01)-1, January 2001. If these historical numbers are modified, they will be added as an appendix in a future annual report.

## 2009 Fisheries

The southern Southeast Alaska pink salmon harvest was 26.4 million (Districts 1-8, all harvest code, all gear), slightly over the 10-year average of 25.4 million. For all of Southeast Alaska and Yakutat the pink salmon harvest was 38 million, which was very close to the preseason forecast of 41 million. The total 2009 Southeast Alaska pink salmon escapement index of 12.7 million index fish was ranked as the $14^{\text {th }}$ highest since 1960 , but was below the recent 10 -year average of 16.6 million. Biological escapement goals are in place for three sub-regions in Southeast Alaska and pink salmon escapement goals were reached for all three sub-regions in 2009.

Sockeye salmon catches in Alaska boundary area gillnet and purse seine fisheries, including treaty fisheries, were below average in 2009.

Returns of North Coast sockeye stocks were poorer than anticipated in 2009. The preliminary Nass sockeye Total Return to Canada (TRTC) estimate of 411,192 was below the pre-season return estimate of 511,000 . Meanwhile, the Skeena total return estimate of 0.99 million was much lower than the pre-season projected return estimate of 2.0 million. Chum escapements were similar to sockeye, with generally low returns to all north coast areas. Pink returns for the north coast aggregate were variable though the aggregate was well above pre-season return estimates. Most notably, Area 3 pink salmon returns appeared weaker than anticipated while Area 4 returns exceeded pre-season estimates.

North coast marine and in-river commercial sockeye management considerations include: aggregate Skeena sockeye abundance, wild Skeena sockeye stocks of concern and the abundance of nontarget Skeena salmon species and steelhead. The Area 4 pilot quota sockeye salmon seine demonstration fishery did not occur in 2009 due to poor sockeye returns. In addition, the First Nations in-river economic opportunity demonstration sockeye fishery that was scheduled to take
place in the Skeena River in 2009 with sockeye being allocated to in-river fishing sites through gillnet and seine licence transfers did not occur due to the return failure. With the weak return of the Skeena sockeye aggregate in 2009 no commercial Skeena sockeye fisheries occurred, though the Nass area Nisga'a First Nation in-river sockeye sales fisheries did take place in 2009, with a total sockeye sales harvest of 45,542 pieces.

In Canadian Area 1 no terminal commercial net fisheries occurred as no local surpluses were identified. There no longer are commercial net interception fisheries on passing salmon stocks in Area 1.

Area 3 commercial net fisheries were implemented in response to Treaty obligations, current trends in salmon species abundance, in-season return estimates and concerns for non-target species. Commercial gillnet fisheries targeting Nass-bound sockeye were restricted to non-retention/non-possession of steelhead and coho, while extraordinary measures were in place to protect weak returns of chum and Chinook salmon, including expanded time and area closures and requested release of all live chum. Management measured put in place to protect weak Nass (and Skeena) sockeye returns meant Area 3 gillnets fished just 8.0 equivalent fishing days (total hours open divided by 24 hours) for a total of 1,517 gillnet boat days effort. This is much lower than the 1990-99 average of 19.7 equivalent fishing days and 8,705 gillnet boat days. The Area 3 seine fleet was managed according to Nass and Skeena sockeye and pink salmon abundance, along with concerns for non-target species. Chinook, chum and steelhead were managed with a non-retention/non-possession restriction while coho were managed with a similar restriction until Week 33, after which retention was permitted. In addition, brail and sort and operational live box restrictions were associated with this fishery, along with openings being restricted to daylight hours. A peak daily fleet size of 29 seines participated in this fishery with a resulting catch of 9,524 sockeye, 610,050 pink and 1,861 coho salmon during the six week fishing period. As the season progressed it became apparent the Skeena and Nass sockeye returns were weaker than forecast, resulting in sockeye non-retention after Week 32. The final fishing date for seines was 23 August, while the final opening for the gillnet fleet was 21 July.

The final sockeye escapement estimate to the Nass was 243,826 , which is above the aggregate escapement target of 200,000 . The Meziadin River escapement of 168,404 was below the decadal average $(183,000)$ but above the escapement target $(160,000)$ to the most productive sockeye system in the Nass drainage. Though the aggregate pink escapement to Area 3 was below expectations, with an aggregate escapement estimate of 640,214 , returns to most streams were near or above target levels. Meanwhile, the estimated Nass area chum escapement of 38,366 did not meet the escapement target.

Area 3 Gillnet catch: Sockeye - 111,377, Pink - 192,434, Chum - 47,399, Chinook - 1,554
Area 3 Seine catch: Sockeye - 9,524, Pink - 610,050, Coho - 1,861
Nass Sockeye escapement estimate - 243,826
Nass Pink escapement estimate - 640,214
Nass Area Chum escapement estimate - 38,366

Area 4 net fisheries were restricted in 2009 due to the very poor return of Skeena sockeye. Gillnets were limited to 2 Chinook-directed openings in late June (June 12, 19) while seine openings were limited to 6 pink-directed openings between 9-19 August. Combined gillnet effort for the 2 Chinook openings was average for this fishery with 187.3 boat days with a below average hailed catch of 2,438 pieces. The Area 4 seine fishery operated with non-retention/nonpossession of all species but pink salmon. In addition, brail and sort and operational live box restrictions were associated with this fishery and all fishing was restricted to daylight hours to reduce interception of non-target species. Seine effort in Area 4 was minimal, the result of a very productive pink return in Area 6 drawing the seine fleet to that area, with only 32.7 boat days effort fishing 6 openings over a 2 week period (Statistical Weeks 33 and 34). The seine fleet delivered a pink catch of 462,159 pieces, which was below pre-season expectations, though fleet size and resulting effort negatively affected cumulative catch. The preliminary Skeena sockeye escapement estimate of 750,000 is below the spawning target of 900,000 . The Skeena aggregate pink escapement estimate of approximately 2.4 exceeded the odd-year escapement target of 2 million while the chum escapement estimate of 992 was well below the escapement target for the Skeena River.

Area 4 Gillnet catch: Sockeye - 132, Chinook - 2,438
Area 4 Seine catch: Pink - 462,159
Skeena Sockeye escapement estimate - 750,000
Skeena Pink escapement estimate - 2.4 million
Skeena Chum escapement estimate - 992
In general, Area 5 net fisheries regulations and management follows that of Area 4. Pre-season pink and sockeye salmon expectations called for moderate opportunities for local pinks, and Skeena pinks and sockeye, for both gillnets and seines. In-season stock assessment led to no opportunities for gillnets and limited seine opportunities on local pink stocks. All seine openings were very poorly attended, with corresponding poor catches.

Area 5 Gillnet catch: no fishery
Area 5 Seine catch: Pink - 132,176
Area 5 Sockeye escapement estimate $-2,600$
Area 5 Pink escapement estimate - 164,350
Area 5 Chum escapement estimate - 3,998
The Area 1 pink-directed troll fishery was open from 1-21 July along the A-B line strip. In addition, pink salmon were open to retention on June 15 in conjunction with the Chinook ITQ Demonstration fishery and remained open to retention along northern half of Dixon Entrance until 30 September. Troll effort in Area 1 concentrated mainly on Chinook and coho salmon, with little effort being directed on pink salmon due to poor prices compared, along with a focus on abundant coho and effort directed at attaining Chinook quotas. The preliminary estimated Areas $1 / 101$ troll pink catch was 61,846 pieces.

## MANAGEMENT PERFORMANCE

Pacific Salmon Treaty based harvest sharing agreements were renewed in 2008 for the Northern Boundary area fisheries - Alaska District 104 purse seine, Alaska District 101 drift gillnet, Canadian Area 3 net, and Canadian Area 1 troll. The agreements are "abundance based" where the allowable harvest is a percentage of the Annual Allowable Harvest (AAH). The AAH is the total return of applicable stocks minus the lesser of: 1) the actual escapement, or 2 ) the escapement goal. Catches over or under the AAH are summed over the period of the agreement to allow for annual variation.

The run size of Alaskan pink salmon returning to Districts 101-103 determines the allowable harvests of these stocks in Canada's Area 3 (1-4) net and Area 1 troll fisheries.

In Alaska's District 104 purse seine fishery, the Nass and Skeena sockeye run size determines the AAH of these stocks prior to Statistical Week 31. In the District 104 purse seine fishery the agreement specifies a harvest, from the beginning of the season through Statistical Week 30, of $2.45 \%$ of the combined AAH of both the Nass and Skeena River runs. The fishery opens the first Sunday in July; in 2009 the initial opening was July 5 (Week 28). The 2009 pre-Week 31 fishing plan for District 104 was based on returns of local Alaskan stocks as well as the Canadian Department of Fisheries and Oceans (DFO) preseason forecast returns of about 511,000 Nass River sockeye salmon and about 2.3 million Skeena River sockeye salmon. The preseason forecasts result in a total projected return of 2.8 million Nass and Skeena sockeye which, minus an escapement goal of 1.1 million, would result in an AAH of about 1.7 million. Using this forecast, the 2009 pre-Week 31 annual allowable harvest was approximately 41,000 Nass and Skeena sockeye salmon.

In Alaska's District 101 gillnet fishery, the AAH is based solely on the run size of Nass River sockeye salmon. The AAH is calculated as the total run of Nass sockeye salmon minus either the escapement requirement of 200,000 or the actual in-river escapement, whichever is less. In the District 101 (Tree Point) drift gillnet fishery, the agreement specifies a harvest of 13.8 percent of the AAH of the Nass River sockeye run. The return of Nass sockeye was forecast at 511,000 in 2009 which, minus an escapement goal of 200,000 , would result in an AAH of about 311,000 . Using this forecast the 2009 allowable harvest in the District 101 gillnet fishery was about 43,000 Nass River sockeye salmon

The District 101 drift gillnet fishery opens by regulation on the third Sunday in June which was June 21 (week 26) in 2009. During the early weeks of the fishery, management is based on the run strength of Alaska wild stock chum and sockeye salmon and on the strength of the Nass River sockeye salmon. Beginning in the third week of July, when pink salmon stocks begin to enter the fishery in large numbers, management emphasis shifts by regulation to that species. By regulation, the District 101 Pink Salmon Management Plan sets gillnet fishing time in this district in relation to the District 101 purse seine fishing time when both fleets are concurrently harvesting the same pink salmon stocks.

For the year 2009, Canada was to manage the 3-1 to 3-4 net fishery to achieve an annual catch share of 2.49 percent of the annual allowable harvest (AAH) of Alaskan Districts 101, 102 and 103 pink salmon. With a Total Return of approximately 39.05 million pinks, the Alaskan Districts 101, 102 and 103 AAH was 28.30 million pinks. The resulting Area 3-1 to 3-4 Canadian commercial net total allowable catch of this AAH was approximately 702,933 pinks of Alaskan Districts 101, 102 and 103 origin.

In the Canadian northern boundary area, pink salmon returns were anticipated to be average to above average for both Area 3 and Area 4, based on brood year return strength. Returns to Area 3 streams were below expectations while as anticipated for Area 4 streams in 2009. The 2009 Canadian pink salmon catch in Sub-areas 3-1 to 3-4 was 404,460 and a preliminary estimate of the Alaska stock component of this catch is estimated to be 271,910 , or $0.96 \%$ of the AAH, well below the allotted $2.49 \%$ of the AAH of 702,933 pieces.

In addition, Canada was to manage the Area 1 troll fishery to achieve an annual catch share of 2.57 percent of the annual allowable harvest (AAH) of Alaskan Districts 101, 102 and 103 pink salmon. With a Total Return of approximately 39.05 million pinks, the Alaskan Districts 101, 102 and 103 AAH was 28.30 million pinks. The resulting Area 1 Canadian commercial troll total allowable catch of this AAH was approximately 581,601 pinks of Alaskan Districts 101, 102 and 103 origin.

The Canadian commercial troll fishery in Area 1 was open in the northern portion of the Area from July 1 to September 30, with the directed pink fishery along the A-B line strip being open for that time period. Pink salmon directed effort was very minimal and the fishery harvested a total of 60,402 pink salmon, with an estimated 50,839 , or $84.2 \%$, being of Alaskan origin. This equates to $0.18 \%$ of the Alaskan District 101, 102 and 103 pink AAH, well below the annex agreement for 2.57 percent of the Alaskan Districts 101, 102 and 103 pink salmon AAH.

Pink escapements in 2009 were 640,214 in Area 3 and 2.4 million in the Skeena region.

## 2010 Forecasts

The Southeast Alaska pink salmon harvest in 2010 is predicted to be in the Weak to Average range, with a point estimate of 19 million fish ( $80 \%$ confidence interval 11-32 million fish). The forecast of 19 million pink salmon is $48 \%$ of the recent 10 -year average harvest of 40 million fish. There are two primary reasons to expect that the harvest in 2010 will be smaller than the recent average: 1) the parent year escapement in 2008 was the smallest since 1990, and 2) escapement indices were extremely poor on the inside waters north of Sumner Strait. In addition, the NOAA Auke Bay Lab's 2009 peak June-July juvenile pink salmon CPUE statistic from upper Chatham and Icy straits in northern Southeast Alaska ranked in the bottom third out of the 12 previous years that NOAA has collected that information. Formal forecasts are not made for species other than pink salmon in Southeast Alaska.

The 2010 Nass sockeye Total Return to Canada (TRTC) is estimated to be 665 thousand, providing a surplus harvest of 325,000 for marine net and Nisga'a in-river commercial opportunities. For the

Skeena, the sibling model forecast predicts a $50 \%$ probability of approximately 663,450 sockeye returning to the Skeena in 2010, with a $25 \%$ probability of the return exceeding 975,000 and a $75 \%$ probability the return will exceed 451,000 . The Nass and Skeena area pink return predictions of 223,000 and 236,000 will not provide a harvestable surplus in 2010. As a result, no directed Skeena sockeye or pink salmon harvest opportunities are anticipated in 2010.

## INTRODUCTION

This report reviews the 2009 Boundary Area pink, chum, coho, and sockeye salmon gillnet and purse seine fisheries of southern Southeast (SSE) Alaska and Northern British Columbia and outlines preliminary expectations and fishing plans for 2010. The document is submitted to the Pacific Salmon Commission as required in Article IV of the Pacific Salmon Treaty. Weekly catch and effort data is provided by opening, district or area, gear, and species (sockeye, pink, chum, coho, and Chinook salmon) for Northern Boundary Area fisheries for 2009. Sub-area catch data is also presented for all salmon species for Canadian Area 3. Canadian Area 3 and Area 4 gillnet and purse seine catch data for 2009 are based on sales slip information rather than hail catch data, as in the past. Maps showing the statistical fishing districts or areas for southern Southeast Alaska and Northern British Columbia are provided in Figures 1 to 4.

## SOUTHERN SOUTHEAST ALASKA

## 2009 Salmon Forecast

The 2009 pink salmon harvest in Southeast Alaska was expected to be strong at a point estimate of 41 million fish, with a forecast range of $30-53$ million fish. Formal forecasts were not made for sub-regions or for species other than pink salmon in Southeast Alaska.

## Review of the 2009 Fishing Season

Commercial fisheries harvested 30.3 million salmon in southern Southeast Alaska in 2009. This total includes Traditional, Hatchery Terminal Harvest Area, and Annette Island Reserve fisheries; purse seine, drift gillnet, and troll gear; in Districts 101 through 108, 150, and 152. The harvest was comprised of 26.4 million ( $87 \%$ ) pink salmon, 2.3 million ( $8 \%$ ) chum, 1.1 million coho, 477,000 (1.6\%) sockeye, and 53,000 ( $0.2 \%$ ) Chinook salmon. Historical catch and effort data by district, gear, species, and week will no longer be reported each year. They can be referenced in Pacific Salmon Commission, Northern Boundary Technical Committee Report, U.S. / Canada Northern Boundary Area 1999 Salmon Fisheries Management Report and 2000 Preliminary Expectations. Report TCNB (01)-1, January 2001. If historical numbers are modified, they will be added as an appendix in a future annual report.

## Districts 101, 102, and 103 Purse Seine Fisheries

The management of the southern Southeast Alaska inside purse seine fishery was based on inseason pink salmon returns to Districts 101 through 107. Exceptions to this management scheme were: 1) an early season opening in lower District 102 to target Southern Southeast Regional Aquaculture Association's (SSRAA) Kendrick Bay summer chum salmon. There was no purse seine Chinook
non-retention period in 2009. District 101-107 purse seine fisheries were closed for the season by August 28 and were not open for directed fall chum fisheries in 2009.

## District 101 Purse Seine Fishery

The Alaska District 101 purse seine fishery opened July 5, 2009 for the first of 14 fishing periods (Table 1). In the initial week (statistical week 28), 11 boats fished a 15 -hour opening catching below treaty period average (1985-2008) numbers of sockeye, pink and coho salmon. In week 29 the catches of sockeye, pink and coho salmon increased to above average in the initial 15-hour opening so the fishery was opened for a second 15 -hour opening. While catches of pink and coho salmon continued to increase through July and into August, catches of sockeye and chum salmon were below average. In weeks 29 and 30 the fishery was open for two 15 -hour periods a week with up to 57 boats fishing. Beginning in week 31 (July 26) the fishery was open for two 39-hour periods a week except for week 34 which had a single 39 -hour opening. The number of boats fishing varied significantly from opening to opening. Pink salmon catches peaked in late July and early August with a catch of 5 million between July 26 and August 11 but declined relatively quickly thereafter. Coho catches were well above average throughout most of the season. The number of boats fishing and hours open was about average. The total number of boats fishing the district during the season was 125 which was $83 \%$ of the treaty period average. The fishery closed relatively early at the end of August due to declining pink salmon catches and continuing low chum salmon catches.

A total of 125 purse seine vessels fished in District 101 in 2009, $83 \% \%$ of the treaty period average of 151 . The fishery was open for a total of 426 hours which was $90 \%$ of the average of 475 .

The 2009 District 101 purse seine seasonal pink salmon catch of 7.7 million was $134 \%$ of the 19852008 treaty period average of 5.8 million.

The District 101 purse seine sockeye salmon catch of 46,000 was $42 \%$ of the 1985-2008 average of 108,000. There were no purse seine openings in 2009 targeting McDonald Lake sockeye salmon in the upper West Behm Canal portion of the district.

The District 101 purse seine chum salmon catch of 177,000 was $55 \%$ of the treaty period average of 324,000. Chum salmon catches were below average throughout the season.

The District 101 purse seine coho salmon catch of 53,000 was $137 \%$ of the treaty period average of 39,000.

The Chinook catch of 1,055 was above average. There was no Chinook non-retention period in the 2009 seine fisheries.

## District 102 Purse Seine

Limited portions of District 102 near Kendrick Bay were opened in Weeks 26 and 27 to access returns of Southern Southeast Regional Aquaculture Association (SSRAA) enhanced summer
chum salmon from Kendrick Bay. The fishery was open for 87 hours in both weeks. Eighteen seine vessels fished the first opening and thirty six fished the second with catches for both weeks totaling about 142,000 chum salmon (Table 2).

The traditional seine fishery in District 102 targeting local stocks of pink salmon opened Sunday July 5 (Week 28). During the traditional fishing period there were 15 openings ranging from 15 to 63 hours in duration. The number of boats fishing the district varied significantly from week to week. A total of 128 purse seine vessels fished District 102 at some time during the season, $83 \%$ of the treaty period average of 158 . The district was open to fishing a total of 663 hours, $69 \%$ of the treaty period average of 967 .

Catches of sockeye, pink and coho salmon were about average for the season although they varied significantly from week to week as boats moved in and out of the district.. The purse seine catch of 3.9 million pink salmon was $93 \%$ of the treaty period average of 4.2 million. The sockeye catch of 45 thousand was $108 \%$ of the treaty period average while the coho catch of 42 thousand was $103 \%$ of average. Catches of chum salmon were well above average early in the season when Kendrick Bay fish were targeted but dropped to below average in early July and remained below average until the end of the season. District 102 closed relatively early on August 28; there was no directed fall chum fishery in 2009.

## District 103 Purse Seine

The 2009 District 103 purse seine fishery initially opened July 23rd (week 30) for the first of 11 openings; the first two openings were 15 hours and the remainder 39 hours. The fishery closed on August 28, there was no directed fall chum salmon fishery in 2009. A total of 110 purse seine vessels fished in District 103, 86\% of the 1985-2007 treaty period average of 128. The district was open for a total of 381 hours, $98 \%$ of the treaty average of 390 .

The District 103 purse seine pink salmon catch of 4.4 million was $109 \%$ of the treaty period average of 4.1 million. In the initial openings, with only a couple of boats fishing, the catches of all species were low but both effort and catch increased rapidly through mid-August. Peak pink salmon catch of 927,000 was taken in the August $15-16$ opening when 50 boats fished 39 hours. The 2009 sockeye catch peaked in late July, and the total catch of 21,000 was $90 \%$ of the treaty period average. Coho catches also rose rapidly to a peak catch of 6,000 on August 15-16; the total coho catch of 40,000 was $131 \%$ of the treaty average. Chum salmon catches initially rose to slightly above average in late July but then lagged below average for the remainder of the season; the total catch of 73,000 was $61 \%$ of the treaty average.

## District 104 Purse Seine Fishery

The 2009 pre-Week 31 fishing plan was based on the DFO preseason forecast total returns of about 511,000 Nass River sockeye and 2.3 million Skeena River sockeye salmon. The preseason forecasts resulted in a total projected return of about 2.8 million which, minus an escapement goal of 1.1 million, would result in a combined AAH of about 1.7 million. Using this forecast, the 2009 pre-Week 31 allowable catch ( $2.45 \%$ of the AAH) was about 41,000 Nass and Skeena sockeye
salmon. The actual AAH will be calculated post-season after stock specific catch and escapement estimates are calculated.

The catch of all salmon as well as the number of purse seine vessels fishing in District 104 were below treaty period (1985-2008) averages in 2009 (Table 4). A total of 15,971 sockeye were caught in District 104 during the 2009 treaty period including; 1) an 12-hour opening in week 28 where six boats caught 914 sockeye, 2) two 15 -hour openings in week 29 where ten boats caught 1,199 and 1,898 sockeye, and 3 ) two 15 -hour openings in week 30 where sixteen, and then twenty two, boats caught 6.669 and 5.291 sockeye. In past years $60 \%$ to $80 \%$ of treaty-period sockeye have been of Nass and Skeena origin. Thus, we would anticipate that between 9,600 and 12,800 Nass and Skeena sockeye were harvested in the District 104 purse seine fishery during the treaty period. The final number of Nass and Skeena sockeye harvested, and the actual catch by stock, will not be available until catch, escapement, and stock composition estimates are finalized for the year.

There were a total of 14 open fishing periods in the 2009 District purse seine 104 fishery. In the post treaty period beginning July 26 openings included; 1) two 39 -hour openings in weeks 31,32 , 33 and 35 , and a single 39 hour opening in week 34 . The number of purse seine vessels fishing in the district was $92,54 \%$ of the treaty period average of 172 .

The catch of 5.5 million pink salmon in the 2009 District 104 purse seine fishery, while almost double the 2009 catch of 2.8 million, was still only $59 \%$ of the treaty period average. The total season sockeye catch of 109,000 was $20 \%$ of the average of 553,000 . The catch of 84,000 coho was $66 \%$ of the average of 128,000 . The catch of 117,000 chum was $34 \%$ of the average of 348,000 . The catch of 7,100 Chinook salmon was just under the average of 7,200 .and there was no non-retention period for Chinook in the 2009 fishery.

## Districts 105, 106, and 107 Purse Seine Fisheries

For the 2009 season, the combined Districts 105, 106, and 107 purse seine fisheries harvested 2.7 million pink salmon, 175,000 chum, 17,500 coho, 18,600 sockeye, and 1,326 Chinook salmon.

## District 101 Tree Point Drift Gillnet Fishery

The PST agreement calls for abundance based management of the District 101 (Tree Point) drift gillnet fishery. The agreement specifies a harvest of 13.8 percent of the AAH of the Nass River sockeye run. For the 2009 season, DFO forecast a total return of 511,000 Nass River sockeye salmon. The AAH is calculated as the total run of Nass sockeye salmon minus either the escapement requirement of 200,000 or the actual inriver escapement, whichever is less.

The District 101 drift gillnet fishery opens by regulation on the third Sunday in June. During the early weeks of the fishery, management is based on the run strength of Alaska wild stock chum and sockeye salmon and on the strength of the Nass River sockeye salmon. Beginning in the third week of July, when pink salmon stocks begin to enter the fishery in large numbers, management emphasis shifts by regulation to that species. By regulation, the District 101 Pink Salmon Management Plan sets gillnet fishing time in this district in relation to the District 101
purse seine fishing time when both fleets are concurrently harvesting the same pink salmon stocks. The final number of Nass River sockeye harvested at Tree Point will not be available until catch, escapement, and stock composition estimates are finalized for the 2009 season.

The District 101 drift gillnet fishery opened Sunday June 21 (week 26) in 2009. The fishery was open a total of 1,512 hours, $113 \%$ of the 1985-2008 treaty period average of 1,333 . The number of gillnet vessel rose slightly from 54 in 2008 to 65 in 2009, which is still only $54 \%$ of the treaty period average of 119. The fishery closed on Tuesday, September 29 (week 40).

In 2009 the District 101 gillnet catch of approximately 70,000 sockeye salmon was $51 \%$ of the 1985-2008 treaty period average of 137,400 . The cumulative sockeye harvest prior to the initiation of the Pink Salmon Management Plan in Week 30 was 48,900 fish, or about $70 \%$ of the season's total sockeye harvest.

The pink salmon catch of 171,000 was $32 \%$ of the average of 539,000 . Pink salmon catches were below the treaty period average throughout the season. The chum catch of 263,000 was $86 \%$ of the average of 306,000 . Chum salmon catches were above average through mid-July but then fell to below average for the remainder of the season. Coho catches were well above average in late July and late August; the catch of 67,000 was $153 \%$ of the treaty period average. The Chinook salmon catch of 1,160 was $78 \%$ of the average of 1,490 .

Beginning on August 30 (week 36) the District 101 gillnet fishery was managed on the strength of fall chum and wild-stock coho salmon returns. Approximately 37,000 coho and 13,600 chum were caught in the fall fishery. Catches of both fall coho and chum salmon were above average.

## District 106 Drift Gillnet Fishery

The 2009 harvest in the District 106 commercial gillnet fishery included 1,600 Chinook, 112,000 sockeye, 144,600 coho, 143,600 pink, and 287,700 chum salmon. District 106 catches of Chinook and chum salmon were above average while catches of sockeye, coho and pink salmon were below average.

## Annette Island Reserve Fisheries

In 2009 the Annette Island purse seine fishery harvested approximately 1.6 million pink salmon, 38,000 chum, 7,000 sockeye, 15,000 coho, and 90 Chinook salmon. The Annette Island gillnet fishery harvested 113,000 pink salmon, 120,000 chum, 7,500 sockeye, 30,500 coho, and 600 Chinook salmon.

## Pink, Sockeye, and Chum Salmon Escapements

The total 2009 Southeast Alaska pink salmon escapement index of 12.7 million index fish ranked $14^{\text {th }}$ since 1960 , but was below the recent 10 -year average of 16.6 million. Biological escapement goals are in place for three sub-regions in Southeast Alaska (Table 5). Escapement goals were reached for all three sub-regions in 2009 and escapements met or exceeded management targets
for all districts in the region. On a finer scale, management targets were met or exceeded in 41 of the 46 pink salmon stock groups in Southeast Alaska. The Southern Southeast sub-region includes all of the area from Sumner Strait south to Dixon Entrance (Districts 1-8). The pink salmon harvest of 26.4 million in the Southern Southeast sub-region was just above the recent 10 -year average and the escapement index value of 7.2 million fell near the upper end of the escapement goal range of 3.0 to 8.0 million index fish.

Southeast Alaska pink salmon escapement indices and biological escapement goals by sub-region (in millions) in 2009.

| Sub-region | 2009 Pink <br> Salmon Index | Biological Escapement Goal ${ }^{1}$ Lower Bound Upper Bound |  |
| :---: | :---: | :---: | :---: |
| Southern Southeast | 7.2 | 3.0 | 8.0 |
| Northern Southeast Inside | 3.7 | 2.5 | 6.0 |
| Northern Southeast Outside | 1.8 | 0.75 | 2.50 |

## Total <br> 12.7

${ }^{1}$ Pink salmon escapement goals were recently adjusted as a result of updates and changes to the pink salmon escapement index.

Sockeye salmon runs throughout Southeast Alaska were mixed in 2009. Escapement targets were met for 7 of the 13 sockeye salmon systems in Southeast Alaska with formal escapement goals. The Hugh Smith Lake adult sockeye escapement was 9,500, which fell within the biological escapement goal range of 8,000 to 18,000 adult sockeye salmon. Based on the expanded peak foot survey count, the escapement of sockeye salmon into McDonald Lake was estimated to be 51,000 fish, which is slightly below the lower bound of 55,000 . McDonald Lake sockeye salmon were listed as a "stock of management concern" at the 2009 Board of Fisheries meeting and a new sustainable escapement goal of 55,000 to 120,000 sockeye salmon was adopted. Escapements at McDonald Lake have been below the revised escapement goal in five of the past six years.

Escapement survey information for chum salmon index streams indicated that escapements of summer-run chum salmon throughout Southeast Alaska were poor in 2009. In southern Southeast Alaska, runs are broken into summer and fall runs. The Southern Southeast chum salmon stock group is composed of an aggregate of 13 summer-run chum salmon streams on the inner islands and mainland of southern Southeast Alaska, from Sumner Strait south to Dixon entrance, with a sustainable escapement goal of 68,000 index spawners (based on the aggregate peak survey to all 13 streams). The index of 41,000 in 2009 was approximately $50 \%$ of the recent 10 -year average and well below the escapement goal (Figure 15).

Fall chum salmon runs on Prince of Wales Island appeared to be weak to average overall, although the escapement goal was easily met in Cholmondeley Sound-the one area with a formal escapement goal for fall chum salmon in southern Southeast Alaska. Fall chum salmon runs are monitored in Cholmondeley Sound through aerial surveys at Disappearance and Lagoon
creeks. The escapement index of 39,000 was within the sustainable escapement goal range of 30,000 to 48,000 index spawners (based on the aggregate peak survey to both streams.

## Management Performance Relative to Treaty Requirements

## District 104 Purse Seine Fishery

The 2008 revision of the Pacific Salmon Treaty Agreement calls for the implementation of abundance based management in the District 104 purse seine fishery. The agreement allows the District 104 purse seine fishery to harvest 2.45 percent of the Annual Allowable Harvest (AAH) of Nass and Skeena sockeye prior to Statistical Week 31. The AAH is calculated as the total run of Nass and Skeena sockeye salmon minus either the escapement requirement of 1.1 million or the actual in-river escapement, whichever is less.

As background, this $2.45 \%$ AAH value was based on the weighted-average percent of the Nass and Skeena sockeye AAH that would have been harvested in this fishery, during the 1985-1996 period, if the annual pre-week 31 harvest had been exactly 120,000 sockeye salmon. Catches from 1997 were not included in the baseline calculation due to unusually high levels of sockeye abundance in the fishery. The Alaska Department of Fish and Game's (ADF\&G) management intent is to harvest Nass and Skeena sockeye salmon at the allowable AAH percentage. The Treaty recognizes that overages and underages will occur and provides an overage/underage provision intended to hold the Parties accountable for their catch shares but permit a reasonable degree of management flexibility.

The final targeted number of Nass/Skeena sockeye in 2009 will not be available until catch, escapement, and stock composition estimates are finalized for the year.

## District 101 Tree Point Drift Gillnet Fishery

The 2008 revision of the Pacific Salmon Treaty Agreement calls for abundance based management of the District 101 (Tree Point) drift gillnet fishery. The agreement allows the District 101 gillnet fishery to harvest 13.8 percent of the Annual Allowable Harvest (AAH) of Nass River sockeye run. The AAH is calculated as the total run of Nass sockeye salmon minus either the escapement requirement of 200 thousand, or the actual in-river escapement, whichever is less.

As background, this $13.8 \%$ AAH value was based on the weighted-average percent of the Nass sockeye run that was harvested in this fishery during years 1985-1997. The ADF\&G management intent is to harvest Nass sockeye salmon at the allowable AAH percentage. The Treaty recognizes that overages and underages will occur and provides an overage/underage provision intended to
hold the Parties accountable for their harvest shares while permitting a reasonable degree of management flexibility.

The final targeted number of Nass sockeye will not be available until catch, escapement, and stock composition estimates are finalized for the year.

## NORTHERN BRITISH COLUMBIA

## 2009 Salmon Forecast

## Area 1 Expectations

Sockeye There are no commercially significant local sockeye stocks in Area 1.
Pink Area 1 pink salmon off-year with no opportunity anticipated.
Chum A small gillnet and seine assessment fishery was expected in Masset Inlet

## Area 3 Expectations

Sockeye A well below average sockeye return to Canada of 511,000 was expected to provide a limited Area 3 net catch of 250,000 Nass River sockeye.

Pink A below average Nass pink return of 1,100,000 was expected to provide an Area 3 catch of 750,000 .

Chum Local chum stocks are depressed, and no surplus was anticipated.
Fishing Plans Area 3 fishing patterns were based largely on the abundance of local sockeye and pink stocks, Skeena coho conservation concerns, and the below average return of Skeena sockeye salmon. A very modest sockeye and average pink fishery was anticipated in Area 3 in 2009.

## Area 4 Expectations

Sockeye The Skeena sockeye return was forecast to be 2 million to Canadian waters providing a commercial harvest opportunity of 500,000 pieces.

Pink The Skeena pink forecast for 2009 was 1.92 million, allowing a below average harvest opportunity of 200,000.

Chum Skeena chum escapements are depressed and there will be no targeted fisheries on chum salmon.

Fishing Plans Domestic management initiatives to respond to wild Skeena sockeye conservation concerns and poor chum returns will be the key factors in developing 2009 management plans.

## Area 5 Expectations

Sockeye A catch of about 25,000 Skeena and 5,000 Area 5 sockeye was anticipated in 2009.
Pink Local Area 5 and passing Skeena pink returns in 2009 were expected to produce a surplus of about 145,000 for harvest.

Chum Local chum stocks are depressed, and no surplus was anticipated.
Fishing Plans Area 5 fishing patterns were based largely on the abundance of local sockeye and pink stocks, Skeena wild sockeye conservation concerns, and below average returns of Skeena pink salmon.

## Review of 2009 Fishing Season - Net and Troll Fisheries


#### Abstract

Area 1

Management units (sub-areas) of Statistical Area 1 are outlined in Figure 3. There were no Area 1 interception or terminal net fisheries in 2009. Tables 10 and 11 summarize the 2009 Area 1 gillnet and seine fisheries.

The Area 1 troll fishery was managed considering domestic Chinook, coho and chum stocks of concern, and the PST Chinook ceiling. The Individual Transferable Quota (ITQ) system governed the harvest of all Chinook. Directed fisheries were conducted for all species except chum and sockeye and area and time restrictions were associated with each opening.

The preliminary catch estimate for the Area 1 portion (includes Area 101) of the 2009 troll fishery is 685 sockeye, 148,281 coho, 61,846 pink and 67,929 Chinook (Table 12).


## Area 3

Management units (sub-areas) of Statistical Area 3 are outlined in Figure 5. In recent years, the Area 3 sockeye gillnet fishery has started mid-June to assess stock strength of passing Nassbound sockeye, with the first exploratory fishery of 2009 taking place on 16 June. Since 1994, in-season escapement estimates have been provided by the Nisga'a fishwheel operations conducted in the lower Nass River approximately five miles upstream from the old Nass test
fishery site. In 2009, fishwheel operations commenced 1 June and closed for the season 12 September, with relatively minor interruptions in operations due to extreme flow conditions. This represents the normal operational timeline for the fishwheel program. In addition to the fishwheel estimates, catches in local Native food and commercial fisheries, and Canadian and Alaskan commercial fisheries are utilised in determining Nass sockeye run strength and resulting Area 3 fishing plans. The 2009 Nass River fishwheel operation, along with the Nisga'a Fisheries Program, continue to be an example of quality stock assessment and effective fisheries comanagement.

In general, the Area 3 net fishery is managed for Nass sockeye salmon until mid-July after which the outer Area 3 fishery is managed based on Nass and Skeena pink and Skeena sockeye stock abundance. The inside Area 3 (Sub-areas 3-7 to 17) net fishery is managed for Nass sockeye, pink and chum abundance from mid-July to late August or early September. In 2009, all Area 3 gillnet fisheries operated with a non-retention/non-possession restriction for coho and steelhead. In response to weak Area 3 chum returns, gillnets were requested to release all live chum. Seine fishers were restricted from retaining Chinook and chum while coho retention was restricted until 14 August and sockeye retention was allowed until 5 August, after which retention was prohibited in response to target harvest levels being attained.

Weekly 2009 sales slip catch data by gear type for sub-areas 3-1 to 3-4 and 3-7 to 3-17 and total catch for Area 3 are presented in Tables 13 to 19. Annual effort data for Area 3 for the years: 1980-2009 is shown in Table 30.

The 2009 Area 3 gillnet fishery began 16 June (Week 25) with one 16 -hour opening to assess Nass River sockeye run strength. A less than average gillnet fleet size of 146 vessels ( 97.3 boat days effort) participated in the first opening. The sockeye catch of 8,088 pieces and resulting CPUEs were slightly below normal for this time of year, corresponding with a below average early Nass River sockeye escapement estimate as determined by the Nisga'a fishwheels.

An additional 16-hour opening was permitted on 23 July (Week 26) with 224 vessels ( 149.3 boat days effort) delivering 6,380 sockeye, 778 chum and 335 Chinook. Sub-Area 3-3 was added to the previous week's open sub-areas. Reduced sockeye catches were partly the result of poor weather conditions affecting fishing success.

During Week 27, two 16 -hour fishing periods were permitted to assess the incoming sockeye run. The delivered sockeye catch for the week increased to 28,205 with fishing effort increasing to 337.3 boat-days. Sockeye escapement past the Nass River fishwheels, along with the weaker than average catch figures, gave indications that the sockeye return to the Nass, at that time, was below average and near the pre-season forecast of 511 thousand.

In Week 28, the sockeye catch dropped slightly to 20,025 pieces with identical effort of 337 boatdays of effort during the two 16 -hour gillnet openings. As a result, the Nass sockeye return to Canada estimate decreased to 473 thousand. Returns of passing Skeena sockeye were poorer than expected to date, with beginning concern regarding total return estimates.

Two 16-hour opening during Week 29 resulted in a delivered catch of 24,093 sockeye for 321.3 boat-days of effort. The resulting CPUE, coupled with continued below average fishwheel escapement estimates, projected a final Canadian returning stock of 425 thousand sockeye. With a poor showing of Skeena sockeye at the Tyee Test Fishery, the outer portions of Area 3 were closed to gillnet fishing to protect passing Skeena sockeye stocks. Seine openings to intercept Area 3 sockeye and pink stocks commenced this week, with a modest effort of 39 boat days delivering a catch of 3,422 sockeye and 101,184 pinks.

During Week 30, two 16-hour gillnet fishery and four16-hour seine fisheries were scheduled in Area 3. The outer portion of the area was closed to gillnets to reduce interception of passing Skeena sockeye while the seine feet concentrated effort on intercepting Nass pinks. Seine vessels moved into the area to intercept passing Area 3 and 4 pinks. Forty-five seine boat-days of effort caught 4,823 sockeye and 367,953 pinks, while 275 boat days of gillnet effort delivered 24,497 sockeye, 102,679 pinks and 4,203 chum and 20 Chinook. This was the last week of gillnet fishing in Area 3. The Nass sockeye total return to Canada estimate decreased further to approximately 400 thousand by the end of Week 30.

During Week 31, a single 16 -hour opening was scheduled for seines as the run strength for both Skeena and Nass sockeye showed continued signs of weakness. During the week 12.7 seine boat-days of effort caught 1,088 sockeye and 46,883 pinks.

Two 16 -hour fishing period was scheduled for seines in Week 32. With a combined effort of 8.7 seine vessels days, the seine fleet harvested 190 sockeye and 29,536 pinks. With continued poor returns of Areas 3 and 4 sockeye, management actions were put in place to minimize further fishery impact, with sockeye possession and retention being restricted for the remainder of the season.

Coho returns to Area 3 and past the Nass River fishwheels were exceeding expectations and the decision to allow retention by the seine fleet was made for Week 33. Effort levels remained poor with the continued strong pink return in Area 6 keeping the fleet away from other areas. The seine fleet was permitted 4 fishing days during Week 33, with 4.7 vessel days effort harvesting 37,939 pinks and 859 coho in the outside portion of Area 3.

Pink abundance dropped off by Week 34, with 6.0 vessel days effort harvesting 26,555 pinks and 1,002 coho during two 16 -hour openings. This was the final week of commercial net fishing in Area 3.

Total gillnet fishing effort was 1516.7 boat days, well below the 1990-1999 average effort of 2,845 boat days and the 1999-2008 decadal average effort of 2,461 boat days. The total Area 3 seine effort of 115 boat days is also well below the 1990-1999 average of 1,271 boat days and the 1999-2008 average of 355 boat days. For gillnets there was a total of 8.0 days fishing, while seines fished for 10 days, well below the 1990-1999 averages of 28 and 8 days fishing, respectively, and the 1999-2008 averages of 14 and 13 days, respectively. The gillnet and seine sockeye delivered catches of 111,377 and 9,523 were much lower than the pre-season expected harvest levels. The catch of pink salmon by gillnets $(192,433)$ and seines $(610,050)$ were near as
anticipated. Of the total Area 3 pink net catch, $60.8 \%(371,191)$ was taken in sub-areas $3-1$ to 3 4.

The final sockeye net escapement estimate to the Nass River totalled 243,826 with a total Meziadin Lake escapement of 168,404 both of which were above target escapement levels. Pink escapements to Area 3 were near target and pre-season return levels with a total aggregate escapement estimate of 872,998 . Chum escapements to Area 3 were below average in 2009, with an estimate of 32,352 . Meanwhile, the Area 3 coho escapement estimate of 342,819 well exceeded the escapement target and was near triple the pre-season return estimate. Table 28 outlines escapements for 2009 and Table 32 provides historical annual escapements for Area 3.

Due to strong in-season indications for returns of north coast coho, troll fisheries took place in Area 3 during 2009, commencing 15 August and continuing through the end of September. The combined fleet effort of 364 vessel days hailed a catch of 27,941 coho, with an incidental harvest of 464 pinks. Retention of all other species was prohibited.

## Area 4

The preseason 2009 sockeye management plan was developed around an abundance-based management scheme in an attempt to reduce the exploitation of less productive Skeena sockeye while allowing variable harvest opportunities based on aggregate sockeye abundance. As has been the case in recent years, the intent was to reduce the aggregate-stock exploitation rate on Skeena sockeye in North Coastal marine net fisheries relative to the 1982-2002 base period. In addition, management measures were in place to address concerns for Skeena coho, steelhead and wild sockeye and chum stocks. The pre-season forecast for Skeena sockeye was expected to provide modest net fishing opportunities, with an expected harvestable surplus of 950,000 pieces. Meanwhile, the anticipated Skeena pink salmon return was expected to allow for a modest pink harvest. In-season abundance indicators included the Tyee test fishery, various in-river fish counting facilities, harvest rate and CPUE models, native food fish catches and commercial catches in Area 4 and other fishing areas in Northern BC and Southern Southeast Alaska. The Tyee test fishery operated from 25 May to 24 September. The earlier than normal start to the test fishery was to assess the early-timed Chinook return. No environmental conditions precluded effective operation of the test fishery in 2009.

Area 4 gillnet and seine fisheries regulations mirror concerns for stocks of concern, including wild sockeye, upper Skeena coho and weak chum stocks. Both net fleets were to operate with a non-retention/non-possession restriction for coho, chum, and steelhead while Chinook retention remains restricted for the seine fleet. Further management actions include mandatory operational revival boxes, daylight-only fisheries and time and area fishing restrictions.

The Skeena First Nations inland demonstration sockeye fishery was scheduled to continue in 2009 to provide economic benefit to up-river First Nations through the harvest and sale of Skeena sockeye. To protect non-target species, this fishery uses beach seining and dip-netting as the only allowable fishing methods. In addition, to minimize impacts on wild sockeye stocks, time and area closures are an integral component of the in-river management regime. Sockeye
allocations are acquired through the transfer of commercial gillnet and seine licences from the marine fishery and weekly allocations are based on average catch per licence from Area 4 gillnet and seine marine commercial fisheries occurring in previous weeks. With the poor return of Skeena sockeye in 2009 no marine or in-river commercial sockeye fisheries took place in the Skeena area.

With stock assessment information indicating a harvestable surplus of Chinook entering the Skeena River, the Area 4 Chinook-directed gillnet fishery took place with 2 openings ( 30 hours and 18 hours) taking place on 12 and 19 June. Effort levels were average for this fishery ( 110 and 74 vessels days, respectively) while Chinook catches were below average with a combined hailed catch of 2,438 pieces.

By the middle of July it was becoming apparent that the Skeena sockeye return was not likely to meet pre-season expectations and with a continually declining return estimate the decision to not fish commercially for sockeye was made by the end of the month when the chance of exceeding a total return estimate of greater than 1 million was not likely. Skeena pinks were, on the other hand, returning in strength and species-specific fisheries were planned for initiation the second week of August. This fishery was delayed to address the poor Skeena sockeye return and due to concerns for Skeena coho and chum the decision was made to commercially fish for pinks with seines to minimize by-catch mortality of non-target species.

The pink salmon directed seine fishery commenced 9 August (Week 33) with a total of four 16hour openings during the week. A combined fishing effort of 28 seine vessel days harvested 419,403 pinks. No other species were permitted to be retained. Two additional 16-hour openings were permitted during Week 34 with minimal vessels participating as a majority of the fleet was fishing an abundant pink return to the south in Area 6. The delivered catch of 43,116 pinks was harvested with 4.7 vessel days of effort.

The abundant Skeena pink return led to escapement levels exceeding the aggregate spawning requirement, allowing for a First Nations in-river Excess Salmon to Spawning Requirement (ESSR) pink fishery at the Babine River counting fence. Total delivered catch for the Skeena upriver pink salmon ESSR fishery was 61,748 pieces.

In 2009 the gillnet fleet was limited to the early season Chinook fishery with no further opportunities due to poor returns and non-target species by-catch concerns. A cumulative effort of 2.0 fishing days and 187.3 gillnet boat days compares to the 1990-99 average of 19.7 fishing days and 8,705 gillnet boat days and the 1999-2008 decadal average of 10 fishing days and 2,898 boat days effort. Catches were limited to Chinook with a hailed catch of 2,438 pieces reported. The seine fleet fished 4 days but total effort was small at 32.7 boat days compared to the 1990-99 average of 8 fishing days and 242 seine boat days and the 1999-2008 decadal average of 10 fishing days and 256 boat days effort. Catches were limited to pinks with a delivered catch of 341,403 pieces.

The Skeena sockeye net escapement estimate of 750,000 was short of the spawning target of 900,000 and below the 1998-2007 average of 994,120. Estimated escapements of wild Skeena
sockeye were variable, but generally below target, with the 2 main stocks of concern, Nanika and Kitwanga Rivers escaping 10,310 and 3,047 , respectively. The aggregate Area 4 pink escapement estimate of 2.4 exceeded the escapement target of 2 million and is the strongest Skeena pink escapement since 1991. Meanwhile, the Skeena chum escapement estimate of 992 is well below target. Table 28 provides the 2009 spawning escapements for Area 4 and Table 33 displays annual escapements from 1970 to 2009. Summaries of the 2009 gillnet and seine weekly catch and effort are provided in Tables 20 and 21.

Due to concerns for north coast coho no troll fisheries took place in Area 4 during the 2009 season. Instead, the fishery was limited to a small portion of the Area 104 traditional coho trolling area. The opening was poorly attended and resulting catches from 106 vessel days of effort were relatively small, with hails of 13,642 coho, 633 pinks and 22 Chinook. Table 22 shows weekly hailed catch information for the Area 104 troll fishery.

## Area 5

Management of the Area 5 fishery during July is based on Skeena sockeye abundance. From late July to early August, the fishery targets Skeena pink stocks which use Area 5 as a migration route. In mid to late August, fisheries are managed for harvest of local pink stocks.

Pre-season expectations were for limited gillnet and seine opportunities on Skeena sockeye and no Skeena or local Area 5 pink opportunities. In-season, no opportunity for gillnets to harvest surplus local Area 5 sockeye or passing Skeena sockeye occurred.

Seine opportunities were limited to opportunities to harvest local Area 5 pinks, with 8 poorly attended openings between Weeks 33 and 35 , amounting to 15.3 boat days effort and a total delivered catch of 132,176 pinks.

Tables 23 and 24 provide weekly Area 5 net fleet catch for 2009 and Table 30 provides historic Area 5 effort by gear type.

The Area 5/105 troll fishery targeted primarily coho in 2009, with retention restrictions in place of sockeye, chum and Chinook. Effort was minimal and coincident with maximum coho abundance within the fishing area. Weekly catch data for the 2009 Area $5 / 105$ troll fishery are provided in Table 25.

The 2009 Area 5 escapement information is provided in Table 34.

## Management Performance Relative to Treaty Requirements

## Areas 3 (1-4) Pink Net Catch (Preliminary)

For the year 2009, Canada was to manage the 3-1 to 3-4 net fishery to achieve an annual catch share
of 2.49 percent of the annual allowable harvest (AAH) of Alaskan Districts 101, 102 and 103 pink salmon. With a Total Return of approximately 39.05 million pinks, the Alaskan Districts 101, 102 and 103 AAH was 28.30 million pinks. The resulting Area 3-1 to 3-4 Canadian commercial net total allowable catch of this AAH was approximately 702,933 pinks of Alaskan Districts 101, 102 and 103 origin.

In the Canadian northern boundary area, pink salmon returns were anticipated to be average to above average for both Area 3 and Area 4, based on brood year return strength. Returns to Area 3 streams were below expectations while as anticipated for Area 4 streams in 2009. The 2009 Canadian pink salmon catch in Sub-areas 3-1 to 3-4 was 404,460 and a preliminary estimate of the Alaska stock component of this catch is estimated to be 271,910 , or $0.96 \%$ of the AAH, well below the allotted 2.49 \% of the AAH of 702,933 pieces. The pattern of total Area 3 troll weekly pink catch in 2009 is illustrated in Table 19.

## Area 1 Pink Troll Fishery (Preliminary)

Canada was to manage the Area 1 troll fishery to achieve an annual catch share of 2.57 percent of the annual allowable harvest (AAH) of Alaskan Districts 101, 102 and 103 pink salmon. With a Total Return of approximately 39.05 million pinks, the Alaskan Districts 101, 102 and 103 AAH was 28.30 million pinks. The resulting Area 1 Canadian commercial troll total allowable catch of this AAH was approximately 581,601 pinks of Alaskan Districts 101, 102 and 103 origin.

The Canadian commercial troll fishery in Area 1 was open in the northern portion of the Area from July 1 to September 30, with the directed pink fishery along the A-B line strip being open for that time period. Pink salmon directed effort was very minimal and the fishery harvested a total of 60,402 pink salmon, with an estimated 50,839 , or $84.2 \%$, being of Alaskan origin. This equates to 0.18 \% of the Alaskan District 101, 102 and 103 pink AAH, well below the annex agreement for 2.57 percent of the Alaskan Districts 101, 102 and 103 pink salmon AAH.

The pattern of total Area 1 weekly pink catch in 2009 is illustrated in Table 12.

## 2010 Salmon Forecast Northern British Columbia

Expectations and fishing plans for 2010 are still preliminary. Specific opening dates and fishing patterns are determined through consultations with industry and since this process has not yet been completed it is too early to provide details. A summary of the forecasts for Areas 1, 3, 4 and 5 is provided in Table 29.

## Area 1 Expectations

Sockeye There are no significant local sockeye stocks in Area 1 and no fisheries on passing stocks.

Pink A minor surplus is anticipated in Area 1 for pinks.

Chum Fishing opportunities will be dependent on identified surpluses.
Fishing Plans The fishing plans for net fisheries have yet to be established.

## Area 3 Expectations

Sockeye A below average Nass sockeye total return to Canada of 665,000 is expected to provide an Area 3 commercial harvest of 400,000 Nass-bound sockeye in 2010

Pink A Nass pink return of 223,000 is expected to provide no Area 3 catch in 2010.
Chum Area 3 chum stocks remain below target levels. No targeted fishing is anticipated.
Fishing Plans A modest Nass River sockeye fishery is anticipated in 2010.

## Area 4 Expectations

Sockeye The Skeena sockeye return is forecast to be 663 thousand to Canadian waters providing no harvest opportunity.

Pink The Skeena pink forecast for 2010 is 236,000 , allowing no commercial harvest opportunity in 2010.

Chum Skeena chum escapements are depressed and there will be no chum retention in Area 4.
Fishing Plans Domestic management initiatives to respond to poor Skeena sockeye, pink and chum salmon returns will be the key factors in developing 2010 management plans. Pre-season expectation are poor for Area 4 net fisheries.

## Area 5 Expectations

Sockeye No sockeye interception is anticipated in 2010.
Pink Local Area 5 and passing Skeena pink returns in 2010 are expected to produce no surplus for harvest.

Chum Local chum stocks are depressed, and no surplus is anticipated.
Fishing Plans Area 5 fishing patterns will be based largely on the in-season abundance estimates of local and Skeena sockeye and pink salmon returns.

TABLES

Table 1. Weekly commercial catch and fishing effort by opening in the 2009 Alaska District 101 purse seine fishery (preliminary).

| Week/ Opening | Openings | Closures | Effort |  |  | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Date | Date | Boats | Hours | Boat <br> Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 28 | July 5, 2009 | July 5, 2009 | 11 | 15 | 165 | 148 | 1,070 | 737 | 49,659 | 5,315 | 56,929 |
| 29 | July 12, 2009 | July 12, 2009 | 36 | 15 | 540 | 139 | 3,741 | 2,850 | 351,926 | 14,542 | 373,198 |
| 29B | July 16, 2009 | July 16, 2009 | 49 | 15 | 735 | 237 | 5,253 | 3,907 | 407,201 | 18,564 | 435,162 |
| 30 | July 19, 2009 | July 19, 2009 | 38 | 15 | 570 | 108 | 6,619 | 1,955 | 382,203 | 16,726 | 407,611 |
| 30B | July 23, 2009 | July 23, 2009 | 57 | 15 | 855 | 80 | 2,118 | 2,337 | 313,081 | 14,397 | 332,013 |
| 31 | July 26, 2009 | July 27, 2009 | 49 | 39 | 1,911 | 74 | 4,066 | 3,493 | 855,864 | 22,532 | 886,029 |
| 31B | July 30, 2009 | July 31, 2009 | 44 | 39 | 1,716 | 97 | 3,328 | 6,451 | 631,637 | 13,502 | 655,015 |
| 32 | August 3, 2009 | August 4, 2009 | 60 | 39 | 2,340 | 64 | 3,680 | 5,057 | 1,129,453 | 16,568 | 1,154,822 |
| 32B | August 7, 2009 | August 8, 2009 | 63 | 39 | 2,457 | 60 | 5,418 | 5,656 | 1,315,784 | 11,960 | 1,338,878 |
| 33 | August 11, 2009 | August 12, 2009 | 55 | 39 | 2,145 | 36 | 4,147 | 3,769 | 880,656 | 11,094 | 899,702 |
| 33B | August 15, 2009 | August 16, 2009 | 43 | 39 | 1,677 | 1 | 2,253 | 2,818 | 428,810 | 4,310 | 438,192 |
| 34 | August 19, 2009 | August 20, 2009 | 51 | 39 | 1,989 | 5 | 2,256 | 4,670 | 458,518 | 8,177 | 473,626 |
| 35 | August 23, 2009 | August 24, 2009 | 37 | 39 | 1,443 | 4 | 1,140 | 5,139 | 423,029 | 9,998 | 439,310 |
| 35B | August 27, 2009 | August 28, 2009 | 36 | 39 | 1,404 | 2 | 813 | 4,454 | 160,174 | 9,075 | 174,518 |
| Season Tot |  |  | 125 | 426 | 53,250 | 1,055 | 45,902 | 53,29 3 | 7,787,995 | 176,760 | 8,065,005 |

Table 2. Weekly commercial catch and fishing effort by opening in the 2009 Alaska District 102 purse seine fishery (preliminary).

|  | Openings | Closures | Effort |  |  | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week/ Opening | Date | Date | Boats | Hours | Boat Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 26 | June 21, 2009 | June 24, 2009 | 18 | 87 | 1,566 | 321 | 1,355 | 1,900 | 879 | 22,566 | 27,021 |
| 27 | June 28, 2009 | July 1, 2009 | 36 | 87 | 3,132 | 297 | 4,780 | 3,584 | 43,347 | 119,029 | 171,037 |
| 28 | July 5, 2009 | July 5, 2009 | 34 | 15 | 510 | 98 | 3,069 | 1,265 | 13,092 | 31,271 | 48,795 |
| 28B | July 6, 2009 | July 8, 2009 | 42 | 63 | 2,646 | 300 | 4,666 | 2,849 | 40,932 | 59,174 | 107,921 |
| 29 | July 12, 2009 | July 12, 2009 | 9 | 15 | 135 | 21 | 2,161 | 1,315 | 41,281 | 16,000 | 60,778 |
| 29B | July 16, 2009 | July 16, 2009 | 15 | 15 | 225 | 32 | 2,456 | 1,803 | 84,714 | 36,577 | 125,582 |
| 30 | July 19, 2009 | July 19, 2009 | 22 | 15 | 330 | 41 | 2,613 | 1,594 | 106,585 | 32,747 | 143,580 |
| 30B | July 23, 2009 | July 23, 2009 | 15 | 15 | 225 | 18 | 1,502 | 2,036 | 174,404 | 18,126 | 196,086 |
| 31 | July 26, 2009 | July 27, 2009 | 41 | 39 | 1,599 | 80 | 3,596 | 3,451 | 489,846 | 17,881 | 514,854 |
| 31B | July 30, 2009 | July 31, 2009 | 45 | 39 | 1,755 | 86 | 3,857 | 6,212 | 574,393 | 12,792 | 597,340 |
| 32 | August 3, 2009 | August 4, 2009 | 19 | 39 | 741 | 13 | 1,809 | 2,338 | 260,408 | 2,329 | 266,897 |
| 32B | August 7, 2009 | August 8, 2009 | 15 | 39 | 585 | 22 | 2,216 | 2,475 | 283,403 | 3,104 | 291,220 |
| 33 | August 11, 2009 | August 12, 2009 | 47 | 39 | 1,833 | 83 | 6,553 | 6,998 | 907,544 | 16,537 | 937,715 |
| 33B | August 15, 2009 | August 16, 2009 | 49 | 39 | 1,911 | 16 | 2,566 | 4,840 | 538,368 | 8,476 | 554,266 |
| 34 | August 19, 2009 | August 20, 2009 | 16 | 39 | 624 | 1 | 601 | 1,523 | 135,247 | 2,802 | 140,174 |
| 35 | August 23, 2009 | August 24, 2009 | 15 | 39 | 585 | 0 | 718 | 1,751 | 101,837 | 6,347 | 110,653 |
| 35B | August 27, 2009 | August 28, 2009 | 13 | 39 | 507 | 0 | 571 | 3,701 | 102,420 | 12,550 | 119,242 |
| Season Total |  |  | 128 | 663 | 84,864 | 1,429 | 45,089 | 49,635 | 3,898,700 | 418,308 | 4,413,161 |

Table 3. Weekly commercial catch and fishing effort by opening in the 2009 Alaska District 103 purse seine fishery (preliminary).

|  | Openings | Closures | Effort |  |  | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week/ <br> Opening | Date | Date | Boats | Hours | Boat <br> Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 30 | July 23, 2009 | July 23, 2009 | 3 | 15 | 45 | 3 | 203 | 277 | 6,965 | 343 | 7,791 |
| 30B | July 23, 2009 | July 23, 2009 |  | 15 |  | Confidenti | informatio | ess than | hree boats f |  |  |
| 31 | July 26, 2009 | July 27, 2009 | 14 | 39 | 546 | 141 | 2,999 | 3,847 | 166,927 | 4,044 | 177,958 |
| 31B | July 30, 2009 | July 31, 2009 | 32 | 39 | 1,248 | 327 | 4,508 | 3,742 | 364,319 | 6,757 | 379,653 |
| 32 | August 3, 2009 | August 4, 2009 | 37 | 39 | 1,443 | 181 | 2,858 | 4,835 | 527,150 | 5,351 | 540,375 |
| 32B | August 7, 2009 | August 8, 2009 | 42 | 39 | 1,638 | 152 | 2,318 | 5,047 | 646,896 | 6,189 | 660,602 |
| 33 | August 11, 2009 | August 12, 2009 | 35 | 39 | 1,365 | 109 | 2,885 | 4,169 | 635,026 | 8,756 | 650,945 |
| 33B | August 15, 2009 | August 16, 2009 | 50 | 39 | 1,950 | 88 | 2,531 | 6,152 | 926,526 | 12,940 | 948,237 |
| 34 | August 19, 2009 | August 20, 2009 | 63 | 39 | 2,457 | 82 | 1,375 | 5,585 | 614,760 | 14,060 | 635,862 |
| 35 | August 23, 2009 | August 24, 2009 | 53 | 39 | 2,067 | 10 | 764 | 3,789 | 338,968 | 8,977 | 352,508 |
| 35B | August 27, 2009 | August 28, 2009 | 20 | 39 | 780 | 4 | 430 | 2,825 | 178,557 | 5,616 | 187,432 |
| Season Total |  |  | 110 | 381 | 41,910 | 1,101 | 21,046 | 40,848 | 4,417,488 | 73,422 | 4,553,905 |

Table 4. Weekly commercial catch and fishing effort by opening in the 2009 Alaska District 104 purse seine fishery (preliminary).

|  | Openings | Closures | Effort |  |  | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week/ Opening | Date | Date | Boats | Hours | Boat <br> Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 28 | July 5, 2009 | July 5, 2009 | 6 | 12 | 72 | 12 | 914 | 270 | 2,919 | 4,091 | 8,206 |
| 29 | July 12, 2009 | July 12, 2009 | 10 | 15 | 150 | 58 | 1,199 | 519 | 19,992 | 4,215 | 25,983 |
| 29B | July 16, 2009 | July 16, 2009 | 10 | 15 | 150 | 197 | 1,898 | 3,293 | 59,499 | 4,255 | 69,142 |
| 30 | July 19, 2009 | July 19, 2009 | 16 | 15 | 240 | 537 | 6,669 | 5,163 | 173,215 | 7,123 | 192,707 |
| 30B | July 23, 2009 | July 23, 2009 | 22 | 15 | 330 | 193 | 5,291 | 3,320 | 109,287 | 6,094 | 124,185 |
| 31 | July 26, 2009 | July 27, 2009 | 54 | 39 | 2,106 | 1,586 | 43,968 | 19,578 | 1,021,313 | 20,202 | 1,106,647 |
| 31B | July 30, 2009 | July 31, 2009 | 19 | 39 | 741 | 158 | 6,209 | 2,179 | 280,568 | 3,960 | 293,074 |
| 32 | August 3, 2009 | August 4, 2009 | 21 | 39 | 819 | 156 | 2,605 | 1,868 | 217,555 | 2,768 | 224,952 |
| 32B | August 7, 2009 | August 8, 2009 | 24 | 39 | 936 | 692 | 4,683 | 4,889 | 512,917 | 9,754 | 532,935 |
| 33 | August 11, 2009 | August 12, 2009 | 53 | 39 | 2,067 | 2,275 | 13,498 | 15,999 | 1,061,416 | 21,327 | 1,114,515 |
| 33B | August 15, 2009 | August 16, 2009 | 51 | 39 | 1,989 | 716 | 8,268 | 9,327 | 1,015,924 | 11,182 | 1,045,417 |
| 34 | August 19, 2009 | August 20, 2009 | 42 | 39 | 1,638 | 390 | 7,591 | 7,634 | 621,416 | 13,187 | 650,218 |
| 35 | August 23, 2009 | August 24, 2009 | 37 | 39 | 1,443 | 67 | 3,621 | 3,405 | 259,631 | 6,425 | 273,149 |
| 35B | August 27, 2009 | August 28, 2009 | 10 | 39 | 390 | 35 | 2,957 | 6,943 | 98,780 | 3,416 | 112,131 |
| Season Total |  |  | 92 | 327 | 30,084 | 7,072 | 109,371 | 84,387 | 5,454,432 | 117,999 | 5,773,261 |

Table 5. Weekly commercial catch and fishing effort by opening in the 2009 Alaska District 101 drift gillnet fishery (preliminary).

|  | Openings | Closures | Effort |  |  | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Date | Boats | Hours | Boat Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 26 | June 21, 2009 | June 25, 2009 | 50 | 96 | 4,799 | 473 | 15,177 | 720 | 151 | 26,285 | 42,806 |
| 27 | June 28, 2009 | July 2, 2009 | 49 | 96 | 4,703 | 215 | 9,505 | 952 | 14,800 | 58,745 | 84,217 |
| 28 | July 5, 2009 | July 9, 2009 | 45 | 96 | 4,319 | 173 | 8,494 | 1,697 | 16,492 | 53,241 | 80,097 |
| 29 | July 12, 2009 | July 16, 2009 | 44 | 96 | 4,223 | 105 | 7,999 | 2,120 | 14,217 | 36,747 | 61,188 |
| 30 | July 19, 2009 | July 23, 2009 | 42 | 96 | 4,031 | 103 | 7,731 | 2,200 | 18,107 | 29,370 | 57,511 |
| 31 | July 26, 2009 | July 31, 2009 | 42 | 120 | 5,039 | 50 | 10,113 | 4,962 | 32,048 | 21,436 | 68,609 |
| 32 | August 2, 2009 | August 7, 2009 | 42 | 120 | 5,039 | 25 | 6,269 | 5,172 | 26,739 | 8,771 | 46,976 |
| 33 | August 9, 2009 | August 14, 2009 | 34 | 120 | 4,079 | 2 | 2,186 | 4,019 | 19,910 | 6,640 | 32,757 |
| 34 | August 16, 2009 | August 21, 2009 | 30 | 120 | 3,599 | 4 | 1,141 | 3,406 | 15,084 | 3,158 | 22,793 |
| 35 | August 23, 2009 | August 28, 2009 | 30 | 120 | 3,599 | 3 | 710 | 4,837 | 10,054 | 5,011 | 20,615 |
| 36 | August 30, 2009 | September 3, 2009 | 35 | 96 | 3,359 | 3 | 397 | 8,772 | 2,293 | 3,779 | 15,244 |
| 37 | September 6, 2009 | September 10, 2009 | 33 | 96 | 3,167 | 3 | 121 | 15,039 | 645 | 5,316 | 21,124 |
| 38 | September 13, 2009 | September 17, 2009 | 32 | 96 | 3,071 | 1 | 16 | 10,094 | 35 | 3,437 | 13,583 |
| 39 | September 20, 2009 | September 24, 2009 | 18 | 96 | 1,728 | 0 | 0 | 2,506 | 0 | 1,042 | 3,548 |
| 40 | September 27, 2009 | September 29, 2009 | 3 | 48 | 144 | 0 | 0 | 673 | 0 | 57 | 730 |
| Season T | otal |  | 65 | 1,512 | 54,901 | 1,160 | 69,859 | 67,169 | 170,575 | 263,035 | 571,798 |

Table 6. Weekly commercial catch and fishing effort by opening in the 2009 Alaska District 106 drift gillnet fishery (preliminary).

|  | Openings | Closures | Effort |  |  | Catch |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date and Time | Date and Time | Boats | Hours | Boat <br> Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 25 | June 15, 2009 | June 18, 2009 | 69 | 71.98 | 4,967 | 540 | 17,936 | 1,269 | 163 | 6,983 | 26,891 |
| 26 | June 21, 2009 | June 25, 2009 | 69 | 95.98 | 6,623 | 349 | 17,529 | 4,475 | 3,457 | 22,276 | 48,086 |
| 27 | June 28, 2009 | July 1, 2009 | 89 | 71.98 | 6,406 | 248 | 16,745 | 8,554 | 14,070 | 72,691 | 112,308 |
| 28 | July 5, 2009 | July 8, 2009 | 85 | 72 | 6,120 | 230 | 15,285 | 10,020 | 15,349 | 51,983 | 92,867 |
| 29 | July 12, 2009 | July 14, 2009 | 50 | 47.98 | 2,399 | 63 | 10,723 | 8,335 | 9,384 | 20,773 | 49,278 |
| 30 | July 19, 2009 | July 21, 2009 | 35 | 47.98 | 1,679 | 8 | 4,899 | 9,643 | 3,852 | 9,065 | 27,467 |
| 31 | July 26, 2009 | July 28, 2009 | 68 | 47.98 | 3,263 | 16 | 8,134 | 7,046 | 10,807 | 12,950 | 38,953 |
| 32 | August 2, 2009 | August 5, 2009 | 85 | 71.98 | 6,118 | 119 | 10,440 | 16,113 | 34,409 | 11,389 | 72,470 |
| 33 | August 9, 2009 | August 12, 2009 | 83 | 71.98 | 5,974 | 12 | 6,146 | 13,218 | 22,226 | 8,919 | 50,521 |
| 34 | August 16, 2009 | August 19, 2009 | 73 | 71.98 | 5,255 | 3 | 2,975 | 10,367 | 19,070 | 10,371 | 42,786 |
| 35 | August 23, 2009 | August 26, 2009 | 56 | 71.98 | 4,031 | 2 | 829 | 6,971 | 4,943 | 11,110 | 23,855 |
| 36 | August 30, 2009 | September 2, 2009 | 99 | 71.98 | 7,126 | 4 | 261 | 14,507 | 4,387 | 14,303 | 33,462 |
| 37 | September 6, 2009 | September 9, 2009 | 97 | 71.98 | 6,982 | 16 | 59 | 14,367 | 1,339 | 16,194 | 31,975 |
| 38 | September 13, 2009 | September 16, 2009 | 84 | 71.98 | 6,046 | 11 | 23 | 13,017 | 133 | 13,736 | 26,920 |
| 39 | September 20, 2009 | September 23, 2009 | 51 | 71.98 | 3,671 | 2 | 0 | 3,554 | 0 | 2,496 | 6,052 |
| 40 | September 27, 2009 | September 29, 2009 | 29 | 47.98 | 1,391 | 2 | 0 | 3,113 | 0 | 2,468 | 5,583 |
| Season Total |  |  | 170 | 1,080 | 78,051 | 1,625 | 111,984 | 144,569 | 143,589 | 287,707 | 689,474 |

Table 7. Weekly commercial catch and fishing effort by opening in the 2009 Annette Island Reserve purse seine fishery (preliminary).

|  | Openings | Closures |  | Effort |  |  |  | Catch |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date and Time | Date and Time | Boats | Hours | Boat Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 26 | June 21, 2009 | June 21, 2009 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26B | June 26, 2009 | June 26, 2009 | 1 | 15 | 15 | 5 | 48 | 34 | 400 | 792 | 1,279 |
| 27 | June 29, 2009 | June 30, 2009 | 1 | 39 | 39 | 16 | 230 | 140 | 8,714 | 2,299 | 11,399 |
| 27B | July 3, 2009 | July 3, 2009 | 1 | 15 | 15 | 3 | 71 | 63 | 2,964 | 634 | 3,735 |
| 28 | July 5, 2009 | July 6, 2009 | 1 | 39 | 39 | 24 | 391 | 177 | 15,899 | 1,588 | 18,079 |
| 28B | July 10, 2009 | July 10, 2009 | 1 | 15 | 15 | 8 | 351 | 116 | 40,969 | 2,482 | 43,926 |
| 28 C | July 11, 2009 | July 11, 2009 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | July 13, 2009 | July 14, 2009 | 1 | 39 | 39 | 11 | 1,174 | 279 | 90,428 | 3,704 | 95,596 |
| 29B | July 17, 2009 | July 17, 2009 | 1 | 15 | 15 | 9 | 882 | 283 | 86,338 | 2,054 | 89,566 |
| 30 | July 19, 2009 | July 20, 2009 | 1 | 39 | 39 | 1 | 1,783 | 298 | 98,170 | 1,330 | 101,582 |
| 30B | July 23, 2009 | July 23, 2009 | 1 | 12 | 12 | 3 | 156 | 73 | 22,193 | 504 | 22,929 |
| 31 | July 27, 2009 | July 28, 2009 | 1 | 39 | 39 | 0 | 162 | 210 | 53,480 | 1,040 | 54,892 |
| 31B | July 30, 2009 | July 31, 2009 | 1 | 39 | 39 | 4 | 316 | 714 | 81,502 | 1,264 | 83,800 |
| 32 | August 2, 2009 | August 3, 2009 | 1 | 39 | 39 | 2 | 371 | 654 | 151,854 | 2,033 | 154,914 |
| 32B | August 5, 2009 | August 6, 2009 | 1 | 39 | 39 | 1 | 213 | 436 | 142,824 | 863 | 144,337 |
| 33 | August 10, 2009 | August 11, 2009 | 1 | 39 | 39 | 2 | 397 | 836 | 132,431 | 1,253 | 134,919 |
| 33B | August 13, 2009 | August 14, 2009 | 1 | 39 | 39 | 0 | 105 | 209 | 111,901 | 330 | 112,545 |
| 34 | August 16, 2009 | August 17, 2009 | 1 | 39 | 39 | 1 | 573 | 1,145 | 396,922 | 2,315 | 400,956 |
| 34B | August 20, 2009 | August 21, 2009 | 1 | 39 | 39 | 0 | 55 | 610 | 80,370 | 1,071 | 82,106 |
| 35 | August 24, 2009 | August 25, 2009 | 1 | 39 | 39 | 0 | 0 | 144 | 20,478 | 718 | 21,340 |
| 35B | August 27, 2009 | August 28, 2009 | 1 | 39 | 39 | 0 | 157 | 1,660 | 66,938 | 3,210 | 71,965 |
| 36 | August 30, 2009 | September 1, 2009 | 1 | 62 | 62 | 0 | 61 | 844 | 7,678 | 873 | 9,456 |
| 38 | September 12, 2009 | September 15, 2009 | 1 | 86 | 86 | 0 | 0 | 2,260 | 0 | 4,140 | 6,400 |
| 38B | September 18, 2009 | September 18, 2009 | 1 | 14 | 14 | 0 | 0 | 1,162 | 0 | 384 | 1,546 |
| 39 | September 19, 2009 | September 21, 2009 | 1 | 62 | 62 | 0 | 0 | 920 | 0 | 1,953 | 2,873 |
| 39B | September 25, 2009 | September 26, 2009 | 1 | 38 | 38 | 0 | 0 | 82 | 0 | 1,506 | 1,588 |
| 40 | September 27, 2009 | September 27, 2009 | 1 | 14 | 14 | 0 | 0 | 1,834 | 0 | 140 | 1,974 |
| 40B | September 29, 2009 | September 29, 2009 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Season Total |  |  |  | 938 | 894 | 90 | 7,496 | 15,183 | 1,612,453 | 38,480 | 1,673,702 |

Table 8. Weekly commercial catch and fishing effort by opening in the 2009 Annette Island Reserve gillnet fishery (preliminary).

|  | Openings | Closures |  | ffort |  |  |  | Catch |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date and Time | Date and Time | Boats | Hours | Boat <br> Hours | Chinook | Sockeye | Coho | Pink | Chum | Total |
| 22 | May 24, 2009 | May 26, 2009 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | June 7, 2009 | June 9, 2009 | 1 | 48 | 48 | 0 | 0 | 0 | 0 | 2 | 2 |
| 25 | June 14, 2009 | June 16, 2009 | 1 | 48 | 48 | 9 | 20 | 4 | 0 | 68 | 101 |
| 26 | June 21, 2009 | June 25, 2009 | 1 | 96 | 96 | 42 | 607 | 99 | 617 | 2,035 | 3,400 |
| 27 | June 28, 2009 | July 3, 2009 | 1 | 120 | 120 | 177 | 1,345 | 714 | 11,516 | 16,029 | 29,781 |
| 28 | July 5, 2009 | July 10, 2009 | 1 | 120 | 120 | 190 | 1,328 | 830 | 9,157 | 18,679 | 30,184 |
| 29 | July 12, 2009 | July 17, 2009 | 1 | 120 | 120 | 128 | 1,840 | 1,031 | 13,520 | 19,404 | 35,923 |
| 30 | July 19, 2009 | July 24, 2009 | 1 | 120 | 120 | 48 | 652 | 611 | 4,604 | 7,091 | 13,006 |
| 31 | July 26, 2009 | July 31, 2009 | 1 | 120 | 120 | 10 | 281 | 498 | 6,568 | 2,890 | 10,247 |
| 32 | August 2, 2009 | August 7, 2009 | 1 | 120 | 120 | 8 | 334 | 225 | 9,508 | 3,886 | 13,961 |
| 33 | August 9, 2009 | August 14, 2009 | 1 | 120 | 120 | 8 | 733 | 1,361 | 19,086 | 4,961 | 26,149 |
| 34 | August 16, 2009 | August 21, 2009 | 1 | 120 | 120 | 6 | 238 | 794 | 25,214 | 3,334 | 29,586 |
| 35 | August 23, 2009 | August 27, 2009 | 1 | 96 | 96 | 0 | 124 | 528 | 8,789 | 4,057 | 13,498 |
| 36 | August 30, 2009 | September 2, 2009 | 1 | 72 | 72 | 1 | 32 | 2,256 | 3,927 | 6,284 | 12,500 |
| 37 | September 6, 2009 | September 10, 2009 | 1 | 96 | 96 | 0 | 6 | 4,536 | 571 | 15,619 | 20,732 |
| 38 | September 13, 2009 | September 18, 2009 | 1 | 120 | 120 | 0 | 0 | 7,242 | 0 | 10,200 | 17,442 |
| 39 | September 20, 2009 | September 25, 2009 | 1 | 120 | 120 | 0 | 0 | 5,281 | 0 | 4,188 | 9,469 |
| 40 | September 27, 2009 | October 1, 2009 | 1 | 96 | 96 | 0 | 0 | 4,111 | 0 | 1,241 | 5,352 |
| 41 | October 4, 2009 | October 8, 2009 | 1 | 96 | 96 | 0 | 0 | 336 | 0 | 57 | 393 |
| Season Total |  |  |  | 1,896 | 1,848 | 627 | 7,540 | 30,457 | 113,077 | 120,025 | 271,726 |

Table 9. Southern Southeast Alaska pink salmon escapement indices by stock group and district for 2009 (in millions).

| Stock Group | District | Total Pink Salmon Index for 2009 | Lower Management Target | Upper Management Target | Met Minimum Escapement Target | Recent 10-year $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E Behm | 101 | 1.79 | 0.67 | 1.77 | + | 1.81 |
| Portland | 101 | 0.30 | 0.10 | 0.28 | + | 0.30 |
| W Behm | 101 | 0.58 | 0.25 | 0.66 | + | 0.60 |
| Kasaan | 102 | 0.93 | 0.24 | 0.64 | + | 0.93 |
| Moira | 102 | 0.13 | 0.05 | 0.13 | + | 0.12 |
| E Dall | 103 | 0.33 | 0.13 | 0.36 | + | 0.33 |
| Hetta | 103 | 0.58 | 0.30 | 0.79 | + | 0.80 |
| Klawock | 103 | 1.23 | 0.42 | 1.11 | + | 1.25 |
| Sea Otter Sound | 103 | 0.18 | 0.10 | 0.28 | + | 0.25 |
| Affleck Canal | 105 | 0.19 | 0.14 | 0.38 | + | 0.41 |
| Shipley Bay | 105 | 0.19 | 0.11 | 0.28 | + | 0.33 |
| Burnett | 106 | 0.09 | 0.05 | 0.14 | + | 0.18 |
| Ratz Harbor | 106 | 0.09 | 0.04 | 0.12 | + | 0.17 |
| Totem Bay | 106 | 0.04 | 0.05 | 0.13 | - | 0.16 |
| Whale Pass | 106 | 0.10 | 0.07 | 0.18 | + | 0.18 |
| Anan | 107 | 0.36 | 0.21 | 0.57 | + | 0.51 |
| Union Bay | 107 | 0.07 | 0.05 | 0.12 | + | 0.14 |
| Stikine | 108 | 0.03 | 0.02 | 0.06 | + | 0.07 |
| Total District 101 |  | 2.66 | 1.02 | 2.71 | + | 2.71 |
| Total District 102 |  | 1.06 | 0.29 | 0.77 | + | 1.05 |
| Total District 103 |  | 2.32 | 0.95 | 2.54 | + | 2.62 |
| Total District 105 |  | 0.38 | 0.25 | 0.66 | + | 0.74 |
| Total District 106 |  | 0.32 | 0.21 | 0.57 | + | 0.69 |
| Total District 107 |  | 0.43 | 0.26 | 0.69 | + | 0.64 |
| Total District 108 |  | 0.03 | 0.02 | 0.06 | + | 0.07 |
| Southern Southeast Alaska Total |  | 7.2 million | 3 million | 8 million | $+$ | 8.5 million |

Table 10. Department of Fisheries and Oceans commercial salmon harvest report, Area 1 gillnet weekly hailed catch, 2009 (Preliminary).


LOCAL FISHERY

| TOTAL LOCAL FISHERY | (No fisheries on local stocks) |  |
| :--- | :--- | :--- | :--- |
| FISHERY ON PASSING STOCKS | (No fishery on passing stocks) |  |
| TOTAL FISHERY ON <br> PASSING STOCKS |  |  |
| TOTAL AREA 1 GN FISHERY |  |  |

Table 11. Department of Fisheries and Oceans commercial salmon harvest report, Area 1 seine weekly hailed catch, 2009 (preliminary).


NOTE: 2009 CATCH FIGURES ARE BASED ON PHONE-IN HAIL DATA (FOS)
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 12. Department of Fisheries and Oceans commercial salmon harvest report, Area 1 troll weekly hailed catch 2009 (preliminary).

| JULIAN WEEK | STAT. <br> WEEK | ENDING DATE | SOCKEYE | COHO | PINK | CHUM | CHINOOK | TOTAL | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | HOURS OPEN | **DAYS <br> FISHING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FISHERY ON PASSING STOCKS |  |  |  |  |  |  |  |  |  |  |  |
| 25 | W/E 6-2 | JUN 20 | 2 | 0 | 4,293 | Closed | 17,083 | 21,378 | 595 | 168 | 7 |
| 26 | W/E 6-3 | 27 | 1 | 0 | 3,520 | Closed | 11,125 | 14,646 | 461 | 168 | 7 |
| 27 | W/E 6-4 | JUL 04 | 44 | 697 | 4,203 | Closed | 14,274 | 19,218 | 545 | 168 | 7 |
| 28 | W/E 7-1 | 11 | 21 | 2,032 | 13,251 | Closed | 8,526 | 23,830 | 521 | 168 | 7 |
| 29 | W/E 7-2 | 18 | 467 | 1,633 | 11,123 | Closed | 6,529 | 19,752 | 329 | 168 | 7 |
| 30 | W/E 7-3 | 25 | 150 | 62,401 | 7,145 | Closed | 4,002 | 73,698 | 425 | 168 | 7 |
| 31 | W/E 7-4 | AUG 01 | Closed | 13,627 | 6,877 | Closed | 2,049 | 22,553 | 226 | 168 | 7 |
| 32 | W/E 8-1 | 8 | Closed | 24,878 | 3,237 | Closed | 689 | 28,804 | 224 | 168 | 7 |
| 33 | W/E 8-2 | 15 | Closed | 24,402 | 5,164 | Closed | 10 | 29,576 | 323 | 168 | 7 |
| 34 | W/E 8-3 | 22 | Closed | 10,540 | 2,341 | Closed | 1,039 | 13,920 | 181 | 168 | 7 |
| 35 | W/E 8-4 | 29 | Closed | 2,606 | 322 | Closed | 1,127 | 4,055 | 98 | 168 | 7 |
| 36 | W/E 9-1 | SEP 05 | Closed | 4,111 | 297 | Closed | 875 | 5,283 | 127 | 168 | 7 |
| 37 | W/E 9-2 | 12 | Closed | 1,048 | 73 | Closed | 328 | 1,449 | 64 | 168 | 7 |
| 38 | W/E 9-3 | 19 | Closed | 238 | 0 | Closed | 217 | 455 | 18 | 168 | 7 |
| 39 | W/E 9-4 | 26 | Closed | 55 | 0 | Closed | 41 | 96 | 14 | 168 | 7 |
| 40 | W/E 10-1 | OCT 03 | Closed | 13 | 0 | Closed | 15 | 28 | 3 | 96 | 4 |
| TOTAL FISHERY ON |  |  |  |  |  |  |  |  |  |  |  |
| PASSING | OCKS |  | 685 | 148,281 | 61,846 | Closed | 67,929 | 278,741 | 4,154 | 2,616 | 109 |
| NO LOCA | ISHERY |  |  |  |  |  |  |  |  |  |  |


| TOTAL AREA 1 TROLL FISHERY | 685 | 148,281 | 61,846 | Closed | 67,929 | 278,741 | 4,154 | 2,616 | 109 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

[^0]Table 13. Department of Fisheries and Oceans commercial salmon harvest report, Area 3 (1-4) gillnet weekly hailed catch, 2009 (preliminary).

|  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| JULIAN <br> WEEK | STAT. <br> WEEK | WEEK <br> ENDING <br> DATE | SOCKEYE | COHO | PINK | CHUM | CHINOOK | CATCH |  |  |  |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP
DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 14. Department of Fisheries and Oceans commercial salmon harvest report, Area 3 (7-17) gillnet weekly hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. <br> WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 25 | 6-2 | JUN 20 | 6,597 | Closed | 1 | 75 | 127 | 6,800 | 72.7 | 16 | 0.7 |
| 26 | 6-3 | 27 | 5,439 | Closed | 2 | 671 | 288 | 6,400 | 127.3 | 16 | 0.7 |
| 27 | 6-4 | JUL 04 | 21,973 | Closed | 1,465 | 12,619 | 394 | 36,451 | 264.0 | 32 | 1.3 |
| 28 | 7-1 | 11 | 13,734 | Closed | 10,496 | 5,650 | 217 | 30,097 | 196.7 | 32 | 1.3 |
| 29 | 7-2 | 18 | 13,312 | Closed | 44,522 | 4,182 | 129 | 62,145 | 172.0 | 32 | 1.3 |
| 30 | 7-3 | 25 | 24,497 | Closed | 102,679 | 4,203 | 20 | 131,399 | 274.7 | 32 | 1.3 |
| TOTALS |  |  | 85,552 | Closed | 159,165 | 27,400 | 1,175 | 273,292 | 1107.4 | 160 | 6.7 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 15. Department of Fisheries and Oceans commercial salmon harvest report, total Area 3 weekly gillnet hailed catch 2009 (preliminary).

| JULIAN WEEK | STAT. <br> WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | BOAT DAYS | HOURS OPEN | DAYS <br> FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 25 | 6-2 | JUN 20 | 8,088 | Closed | 1 | 77 | 164 | 8,330 | 97.4 | 32 | 1.3 |
| 26 | 6-3 | 27 | 6,379 | Closed | 2 | 799 | 335 | 7,515 | 149.3 | 32 | 1.3 |
| 27 | 6-4 | JUL 04 | 28,205 | Closed | 1,922 | 18,103 | 454 | 48,684 | 337.3 | 32 | 1.3 |
| 28 | 7-1 | 11 | 20,025 | Closed | 16,893 | 12,512 | 364 | 49,794 | 336.7 | 32 | 1.3 |
| 29 | 7-2 | 18 | 24,093 | Closed | 70,936 | 11,705 | 218 | 106,952 | 321.3 | 32 | 1.3 |
| 30 | 7-3 | 25 | 24,497 | Closed | 102,679 | 4,203 | 20 | 131,399 | 274.7 | 32 | 1.3 |
| TOTALS |  |  | 111,287 | Closed | 192,433 | 47,399 | 1,555 | 352,674 | 1516.7 | 192 | 8.0 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 16. Department of Fisheries and Oceans commercial salmon harvest report, Area 3 Entrance (sub-areas 3-1 to 3-4) weekly seine hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | BOAT <br> DAYS | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 29 | 7-2 | 18 | 1,257 | 0 | 30,370 | 0 | 0 | 31,627 | 18.0 | 32 | 1.3 |
| 30 | 7-3 | 25 | 3,416 | 0 | 264,827 | 0 | 0 | 268,243 | 30.0 | 64 | 2.7 |
| 31 | 7-4 | AUG 01 | 247 | 0 | 11,227 | 0 | 0 | 11,474 | 5.3 | 16 | 0.7 |
| 32 | 8-1 | 8 | 37 | 0 | 14,601 | 0 | 0 | 14,638 | 4.0 | 32 | 1.3 |
| 33 | 8-2 | 15 | 0 | 859 | 37,939 | 0 | 0 | 38,798 | 4.7 | 64 | 2.7 |
| 34 | 8-3 | 22 | 0 | 460 | 12,227 | 0 | 0 | 12,687 | 3.3 | 32 | 1.3 |
| TOTALS |  |  | 4,957 | 1,319 | 371,191 | 0 | 0 | 377,467 | 65.3 | 240 | 10.0 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP
DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 17. Department of Fisheries and Oceans commercial salmon harvest report, Area 3 Inside (sub-areas 7 to 17) purse seine hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 29 | 7-2 | 18 | 2,165 | Closed | 70,814 | Closed | Closed | 72,979 | 20.7 | 32 | 1 |
| 30 | 7-3 | 25 | 1,407 | Closed | 103,126 | Closed | Closed | 104,533 | 14.7 | 64 | 3 |
| 31 | 7-4 | AUG 01 | 841 | Closed | 35,656 | Closed | Closed | 36,497 | 7.3 | 16 | 1 |
| 32 | 8-1 | 8 | 153 | Closed | 14,935 | Closed | Closed | 15,088 | 4.7 | 32 | 1 |
| 33 | 8-2 | 15 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| 34 | 8-3 | 22 | Closed | 542 | 14,328 | Closed | Closed | 14,870 | 2.7 | 32 | 1 |
| TOTALS |  |  | 4,566 | 542 | 238,859 | Closed | Closed | 243,967 | 50.1 | 176 | 7.3 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 18. Department of Fisheries and Oceans commercial salmon harvest report, total Area 3 purse seine hailed catch. 2009 (preliminary).

| JULIAN WEEK | STAT. <br> WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | BOAT <br> DAYS | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 29 | 7-2 | 18 | 3,422 | Closed | 101,184 | Closed | Closed | 104,606 | 38.7 | 32 | 1.3 |
| 30 | 7-3 | 25 | 4,823 | Closed | 367,953 | Closed | Closed | 372,776 | 44.7 | 64 | 2.7 |
| 31 | 7-4 | AUG 01 | 1,088 | Closed | 46,883 | Closed | Closed | 47,971 | 12.6 | 16 | 0.7 |
| 32 | 8-1 | 8 | 190 | Closed | 29,536 | Closed | Closed | 29,726 | 8.7 | 32 | 1.3 |
| 33 | 8-2 | 15 | - | 859 | 37,939 | - | - | 38,798 | 5 | 64 | 3 |
| 34 | 8-3 | 22 | Closed | 1,002 | 26,555 | Closed | Closed | 27,557 | 6.0 | 32 | 1.3 |
| TOTALS |  |  | 9,523 | 1,861 | 610,050 | Closed | Closed | 621,434 | 115.4 | 240 | 10.0 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 19. Department of Fisheries and Oceans commercial salmon harvest report, Area 3 troll hailed catch, 2009 (preliminary).

|  |  | WEEK |  |  | CAT |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| JULIAN WEEK | STAT. WEEK | ENDING DATE | SOCKEYE | COHO | PINK | CHUM | CHINOOK | TOTAL | BOAT DAYS | HOURS OPEN | DAYS <br> FISHING* |
| 34 | W/E 8-3 | 11 | Closed | 2,948 | 110 | Closed | Closed | 3,058 | 17 | 168 | 7.0 |
| 35 | W/E 8-4 | 18 | Closed | 7,809 | 312 | Closed | Closed | 8,121 | 98 | 168 | 7.0 |
| 36 | W/E 9-1 | 25 | Closed | 5,223 | 27 | Closed | Closed | 5,250 | 69 | 168 | 7.0 |
| 37 | W/E 9-2 | SEP 01 | Closed | 5,907 | 13 | Closed | Closed | 5,920 | 78 | 168 | 7.0 |
| 38 | W/E 9-3 | 8 | Closed | 4,529 | 2 | Closed | Closed | 4,531 | 75 | 168 | 7.0 |
| 39 | W/E 9-4 <br> W/E 10- | 15 | Closed | 1,525 | 0 | Closed | Closed | 1,525 | 27 | 168 | 7.0 |
| 40 | 1 | 22 | Closed | 0 | 0 | Closed | Closed | 0 | 0 | 24 | 1.0 |
| TOTAL FISHERY ON <br> PASSING <br> sTOCKs |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

[^1]Table 20. Department of Fisheries and Oceans commercial salmon harvest report, Area 4 gillnet hailed catch, 2009 (preliminary).


NOTE: 2009 CATCH FIGURES ARE BASED ON PHONE-IN HAILS AS SALES SLIP DATA NOT FINALIZED *DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 21. Department of Fisheries and Oceans commercial salmon harvest report, Area 4 purse seine hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. <br> WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | BOAT DAYS | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 30 | 7-4 | JUL 28 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| 31 | 7-5 | AUG 04 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| 32 | 7-5 | 11 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| 33 | 8-2 | 18 | Closed | Closed | 419,043 | Closed | Closed | 419,043 | 28.0 | 64 | 2.7 |
| 34 | 8-3 | 25 | Closed | Closed | 43,116 | Closed | Closed | 43,116 | 4.7 | 32 | 1.3 |
| TOTALS |  |  | Closed | Closed | 462,159 | Closed | Closed | 462,159 | 32.7 | 96 | 4.0 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP
DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 22. Department of Fisheries and Oceans commercial salmon harvest report, Area 4 troll hailed catch, 2009 (preliminary).

|  |  | WEEK |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| JULIAN WEEK | STAT. WEEK | $\begin{aligned} & \text { ENDING } \\ & \text { DATE } \end{aligned}$ | SOCKEYE | COHO | PINK | CHUM | CHINOOK | TOTAL | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | HOURS OPEN | DAYS FISHING* |
| 30 | W/E 7-4 | JUL 25 | Closed | 0 | 0 | Closed | 0 | 0 | 0 | 168 | 7.0 |
| 31 | W/E 7-5 | AUG 01 | Closed | 0 | 0 | Closed | 0 | 0 | 0 | 168 | 7.0 |
| 32 | W/E 8-1 | 8 | Closed | 4,820 | 242 | Closed | 0 | 5,062 | 34 | 168 | 7.0 |
| 33 | W/E 8-2 | 15 | Closed | 5,899 | 303 | Closed | 0 | 6,202 | 50 | 168 | 7.0 |
| 34 | W/E 8-3 | 22 | Closed | 1,005 | 74 | Closed | 17 | 1,096 | 11 | 168 | 7.0 |
| 35 | W/E 8-4 | 29 | Closed | 0 | 0 | Closed | 0 | 0 | 0 | 168 | 7.0 |
| 36 | W/E 9-1 | SEP 05 | Closed | 1,725 | 13 | Closed | 5 | 1,743 | 10 | 168 | 7.0 |
| 37 | W/E 9-2 | 12 | Closed | 175 | 1 | Closed | 0 | 176 | 1 | 168 | 7.0 |
| 38 | W/E 9-3 | 19 | Closed | 0 | 0 | Closed | 0 | 0 | 0 | 168 | 7.0 |
| 39 | W/E 9-4 <br> W/E 10- | 26 | Closed | 0 | 0 | Closed | 0 | 0 | 0 | 168 | 7.0 |
| 40 | 1 | ОСT 03 | Closed | 0 | 0 | Closed | 0 | 0 | 0 | 96 | 4.0 |
| TOTAL FISHERY ON PASSING |  |  |  |  |  |  |  |  |  |  |  |
| STOCKS |  |  | Closed | 13,624 | 633 | Closed | 22 | 14,279 | 106 | 1,512 | 63.0 |

NOTE: 2009 CATCH FIGURES ARE BASED ON PHONE-IN HAIL DATA (FOS), AS SALES SLIP DATA NOT FINALISED. *DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 23. Department of Fisheries and Oceans commercial salmon harvest report, Area 5 gillnet hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. <br> WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | BOAT <br> DAYS | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 29 | 7-2 | JUL 21 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| 30 | 7-4 | 28 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| 31 | 7-5 | AUG 04 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |
| TOTALS |  |  | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP
DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 24. Department of Fisheries and Oceans commercial salmon harvest report, Area 5 seine hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 33 | W/E 8-2 | 15 | Closed | Closed | 40,552 | Closed | Closed | 40,552 | 5.3 | 64 | 2.7 |
| 34 | W/E 8-3 | 22 | Closed | Closed | 69,646 | Closed | Closed | 69,646 | 6.7 | 32 | 1.3 |
| 35 | W/E 8-4 | 29 | Closed | Closed | 21,978 | Closed | Closed | 21,978 | 3.3 | 32 | 1.3 |
| TOTALS |  |  | Closed | - | 132,176 | Closed | - | 132,176 | 15.3 | 128 | 5.3 |

NOTE: 2009 CATCH FIGURES ARE BASED ON SALES SLIP DATA
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 25. Department of Fisheries and Oceans commercial salmon harvest report, Area 5 troll hailed catch, 2009 (preliminary).

| JULIAN WEEK | STAT. WEEK | WEEK ENDING DATE | SOCKEYE | COHO | CATCH |  | CHINOOK | TOTAL | BOAT DAYS | HOURS OPEN | DAYS FISHING* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | PINK | CHUM |  |  |  |  |  |
| 30 | W/E 7-4 | JUL 25 | Closed | 3,427 | 482 | Closed | Closed | 3,909 | 12.0 | 168 | 7.0 |
| 31 | W/E 7-5 | AUG 01 | Closed | 1,132 | 259 | Closed | Closed | 1,391 | 7.0 | 168 | 7.0 |
| 32 | W/E 8-1 | 8 | Closed | 248 | 3 | Closed | Closed | 251 | 6.0 | 168 | 7.0 |
| 33 | W/E 8-2 | 15 | Closed | 2,219 | 1 | Closed | Closed | 2,220 | 19.0 | 168 | 7.0 |
| 34 | W/E 8-3 | 22 | Closed | 1,712 | 1 | Closed | Closed | 1,713 | 24.0 | 168 | 7.0 |
| 35 | W/E 8-4 | 29 | Closed | 0 | 0 | Closed | Closed | 0 | 0.0 | 168 | 7.0 |
| 36 | W/E 9-1 | SEP 05 | Closed | 0 | 0 | Closed | Closed | 0 | 0.0 | 168 | 7.0 |
| 37 | W/E 9-2 | 12 | Closed | 0 | 0 | Closed | Closed | 0 | 0.0 | 168 | 7.0 |
| 38 | W/E 9-3 | 19 | Closed | 0 | 0 | Closed | Closed | 0 | 0.0 | 168 | 7.0 |
| 39 | W/E 9-4 | 26 | Closed | 0 | 0 | Closed | Closed | 0 | 0.0 | 168 | 7.0 |
| 40 | W/E 10-1 | OCT 03 | Closed | 0 | 0 | Closed | Closed | 0 | 0.0 | 96 | 4.0 |
| TOTAL FISHERY ON |  |  |  |  |  |  |  |  |  |  |  |
| PASSIN | STOCKS |  | Closed | 8,738 | 746 | Closed | Closed | 9,484 | 68.0 | 1,512 | 63.0 |

NOTE: 2009 CATCH FIGURES ARE BASED ON PHONE-IN HAIL DATA (FOS), AS SALES SLIP DATA NOT FINALISED.
*DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

Table 26.-Preliminary annual allowable harvest (AAH) calculations for Canadian Area 3(1-4) net fishery, $2009{ }^{1}$.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Annual Allowable Harvest (AAH) of Alaska District 101, 102, and 103 Pink Salmon:

| Total Run ${ }^{2}$ | 53,011,083 | 22,935,854 | 62,126,912 | 43,056,270 | 42,771,456 | 34,999,070 | 43,651,072 | 11,524,695 | 52,342,831 | 25,728,121 | 39,048,953 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actual Escapement ${ }^{2}$ | 19,900,203 | 11,936,450 | 21,903,643 | 20,178,163 | 20,047,003 | 16,769,261 | 17,519,566 | 8,532,450 | 23,578,584 | 13,669,062 | 16,095,463 |
| Escapement Requirement 3 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 |
| Annual Allowable Harvest (AAH) | 42,261,083 | 12,185,854 | 51,376,912 | 32,306,270 | 32,021,456 | 24,249,070 | 32,901,072 | 2,992,245 | 41,592,831 | 14,978,121 | 28,298,953 |

## Actual Number and \%AAH of Alaska Pink Salmon Harvested in Canadian Area 3(1-4) Net Fishery

| Total Pink Harvest in Area 3(1-4) Net | 2,224,180 | 89,980 | 1,155,691 | 1,163,645 | 924,183 | 559,034 | 894,890 | 143,733 | 1,740,271 | 12,082 | 404,460 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actual Number of Alaskan Pink Harvested | 1,276,329 | 67,465 | 911,959 | 766,390 | 668,100 | 448,730 | 690,317 | 112,342 | 1,421,812 | 10,580 | 271,910 |
| Actual \%AAH | 3.02\% | 0.55\% | 1.78\% | 2.37\% | 2.09\% | 1.85\% | 2.10\% | 3.75\% | 3.42\% | 0.07\% | 0.96\% |
| Overage/Underage Based on the $\mathbf{2 . 4 9 \%}$ AAH Stipulated in the Treaty: |  |  |  |  |  |  |  |  |  |  |  |
| Allowable \% AAH | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% | 2.49\% |
| Allowable Harvest | 1,052,301 | 303,428 | 1,279,285 | 804,426 | 797,334 | 603,802 | 819,237 | 74,507 | 1,035,661 | 372,955 | 704,644 |
| Overage [Positive]/Underage (Negative) | 224,028 | $(235,963)$ | $(367,326)$ | $(38,036)$ | $(129,234)$ | $(155,072)$ | $(128,920)$ | 37,836 | 386,150 | $(362,375)$ | $(432,733)$ |
| Cumulative Overage/Underage | 224,028 | $(11,934)$ | $(379,260)$ | $(417,296)$ | $(546,530)$ | $(701,602)$ | $(830,522)$ | $(792,687)$ | $(406,536)$ | $(768,912)$ | $(1,201,645)$ |
| ${ }^{1}$ Canadian and Alaskan pink salmon catch data for 1999-2006 were reviewed and updated, which changed the preliminary AAH calculations reported in the 2006 NBTC Annual Report |  |  |  |  |  |  |  |  |  |  |  |
| 2 Total Run [Sum of AK catch of AK, BC catch of AK, and Dist $101-103$ esc index x 2.5 ] |  |  |  |  |  |  |  |  |  |  |  |
| 4 Escapement Requirement [ Dist $101-103$ escapement goal ] |  |  |  |  |  |  |  |  |  |  |  |

Table 27. Preliminary annual allowable harvest (AAH) calculations for Canadian Area 1 troll fishery, 2009 ${ }^{1}$.

|  | Year |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| Annual Allowable Harvest (AAH) of Alaska District 101, 102, and 103 Pink Salmon: |  |  |  |  |  |  |  |  |  |  |  |
| Total Run | 53,011,083 | 22,935,854 | 62,126,912 | 43,056,270 | 42,771,456 | 34,999,070 | 43,651,072 | 11,524,695 | 52,342,831 | 25,728,121 | 39,048,953 |
| Actual Escapement | 19,900,203 | 11,936,450 | 21,903,643 | 20,178,163 | 20,047,003 | 16,769,261 | 17,519,566 | 8,532,450 | 23,578,584 | 13,669,062 | 16,095,463 |
| Escapement Requirement | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 | 10,750,000 |
| Annual Allowable Harvest (AAH) | 42,261,083 | 12,185,854 | 51,376,912 | 32,306,270 | 32,021,456 | 24,249,070 | 32,901,072 | 2,992,245 | 41,592,831 | 14,978,121 | 28,298,953 |
| Actual Number and \%AAH of Alaska Pink Salmon Harvested in Canadian Area 1 Troll Fishery: |  |  |  |  |  |  |  |  |  |  |  |
| Total Pink Harvest in Area 1 Troll Actual Number of Alaskan Pink Harvested Actual \%AAH | $\begin{array}{r} 31,013 \\ 25,125 \\ 0.06 \% \end{array}$ | $\begin{array}{r} 73,358 \\ 56,042 \\ 0.46 \% \end{array}$ | 132,709 <br> 116,490 <br> 0.23\% | $\begin{gathered} 22,918 \\ 17,723 \\ 0.05 \% \end{gathered}$ | 74,160 <br> 61,284 <br> $0.19 \%$ | $\begin{array}{r} 22,198 \\ 19,499 \\ 0.08 \% \end{array}$ | $\begin{array}{r} 27,768 \\ 23,098 \\ 0.07 \% \end{array}$ | $\begin{array}{r} 34,854 \\ 30,134 \\ 1.01 \% \end{array}$ | $\begin{array}{r} 61,276 \\ 55,418 \\ 0.13 \% \end{array}$ | $\begin{gathered} 23,243 \\ 21,171 \\ 0.14 \% \end{gathered}$ | $\begin{gathered} 60,402 \\ 50,839 \\ 0.18 \% \end{gathered}$ |
| Overage/Underage Based on the $\mathbf{2 . 5 7 \%}$ AAH Stipulated in the Treaty: |  |  |  |  |  |  |  |  |  |  |  |
| Allowable \%AAH | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% | 2.57\% |
| Allowable Harvest <br> Overage (Positive)/Underage (Negative) <br> Cumulative Overage/Underage | $\begin{array}{r} 1,086,110 \\ (1,060,984) \\ (1,060,984) \end{array}$ | $\begin{array}{r} 313,176 \\ (257,134) \\ (1,318,119) \end{array}$ | $\begin{array}{r} 1,320,387 \\ (1,203,896) \\ (2,522,015) \end{array}$ | $\begin{array}{r} 830,271 \\ (812,548) \\ (3,334,563) \end{array}$ | $\begin{array}{r} 822,951 \\ (761,668) \\ (4,096,231) \end{array}$ | $\begin{array}{r} 623,201 \\ (603,702) \\ (4,699,933) \end{array}$ | $\begin{array}{r} 845,558 \\ (822,460) \\ (5,522,393) \end{array}$ | $\begin{array}{r} 76,901 \\ (46,767) \\ (5,569,160) \end{array}$ | $\begin{array}{r} 1,068,936 \\ (1,013,518) \\ (6,582,678) \end{array}$ | $\begin{array}{r} 384,938 \\ (363,766) \\ (6,946,444) \end{array}$ | $\begin{array}{r} 727,283 \\ (676,444) \\ (7,622,888) \end{array}$ |

${ }^{1}$ Canadian and Alaskan pink salmon catch data for 1999-2006 were reviewed and updated, which changed the preliminary AAH calculations reported in the 2006 NBTC Annual Report.

Table 28. Department of Fisheries and Oceans, 2009 escapements to Areas 3, 4, and 5 (preliminary).

| Area | Sockeye | Pink | Chum |
| :--- | :---: | :---: | :---: |
| 3 |  |  |  |
| Meziadin: | 179,650 | 640,214 | 20,615 |
| 4 | 168,404 |  |  |
|  |  |  | 992 |
| 5 | N/A | 164,350 | 3,998 |
|  |  |  |  |

Table 29. Department of Fisheries and Oceans, 2010 salmon forecast, Areas 1, 3, 4, and 5.

\left.|  | 2010 COMMERCIAL NET SOCKEYE AND PINK FORECAST |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |$\right)$

*     - Areas 3 and 4 catch includes commercial and First Nations harvests in tidal and non-tidal waters.

Table 30. Annual effort data for Canadian Areas 1, 3, 4, and 5.

| YEAR | GEAR | AREA 1 |  | AREA 3 |  | AREA 4 |  | AREA 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | $\begin{gathered} \text { DAYS* } \\ \text { FISHING } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | $\begin{gathered} \text { DAYS } \\ \text { FISHING } \end{gathered}$ | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \end{aligned}$ | $\begin{gathered} \text { DAYS } \\ \text { FISHING } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { BOAT } \\ & \text { DAYS } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { DAYS } \\ & \text { FISHING } \end{aligned}$ |
| 2009 | GN | 0 | 0 | 1517 | 8 | 187 | 2 | 0 | 0 |
|  | SN | 0 | 0 | 115 | 10 | 33 | 4 | 15 | 5 |
| 2008 | GN | 0 | 0 | 595 | 7 | 2213 | 9 | 18 | 7 |
|  | SN | 0 | 0 | 61 | 3 | 274 | 14 | 10 | 1 |
| 2007 | GN | 0 | 0 | 1694 | 9 | 1796 | 7 | 11 | 2 |
|  | SN | 0 | 0 | 478 | 15 | 85 | 9 | 82 | 15 |
| 2006 | GN | 7 | 5 | 3487 | 15 | 6376 | 17 | 71 | 13 |
|  | SN | 0 | 0 | 236 | 7 | 682 | 16 | 3 | 6 |
| 2005 | GN | 0 | 0 | 2645 | 16 | 198 | 2 | 0 | 0 |
|  | SN | 0 | 0 | 291 | 18 | 0 | 0 | 19 | 6 |
| 2004 | GN | 0 | 3 | 3241 | 13 | 1581 | 6 | 78 | 5 |
|  | SN | 0 | 0 | 448 | 13 | 218 | 13 | 28 | 7 |
| 2003 | GN | 0 | 0 | 3417 | 17 | 2484 | 8 | 27 | 5 |
|  | SN | 0 | 0 | 210 | 15 | 118 | 9 | 32 | 11 |
| 2002 | GN | 2 | 2 | 2882 | 19 | 3559 | 13 | 43 | 11 |
|  | SN | 7 | 2 | 294 | 15 | 218 | 15 | 64 | 15 |
| 2001 | GN | 2 | 1 | 1031 | 11 | 5380 | 19 | 86 | 12 |
|  | SN | 0 | 0 | 244 | 13 | 393 | 9 | 57 | 11 |
| 2000 | GN | 15 | 4 | 2321 | 17 | 5150 | 19 | 164 | 3 |
|  | SN | 0 | 0 | 282 | 12 | 544 | 9 | 54 | 11 |
| 1999 | GN | 1 | 5 | 3300 | 17 | 238 | 3 | 0 | 0 |
|  | SN | 0 | 0 | 1001 | 15 | 26 | 2 | 6 | 2 |
| 1998 | GN | 5 | 11 | 1197 | 16 | 1041 | 6 | 47 | 3 |
|  | SN | 12 | 2 | 204 | 9 | 0 | 0 | 4 | 0 |
| 1997 | GN | 536 | 23 | 2759 | 23 | 9558 | 21 | 269 | 20 |
|  | SN | 313 | 8 | 809 | 15 | 172 | 11 | 25 | 13 |
| 1996 | GN | 19 | 18 | 4433 | 36 | 13487 | 25 | 507 | 26 |
|  | SN | 79 | 15 | 1117 | 20 | 975 | 14 | 347 | 19 |
| 1995 | GN | 270 | 29 | 4305 | 31 | 12062 | 19 | 434 | 22 |
|  | SN | 322 | 7 | 2536 | 15 | 484 | 9 | 154 | 13 |
| 1994 | GN | 82 | 16 | 3443 | 23 | 8130 | 20 | 430 | 12 |
|  | SN | 164 | 7 | 698 | 9 | 0 | 0 | 5 | 1 |
| 1993 | GN | 26 | 15 | 3692 | 43 | 10909 | 22 | 183 | 22 |
|  | SN | 15 | 15 | 1816 | 16 | 329 | 12 | 71 | 13 |
| 1992 | GN | 68 | 21 | 2527 | 31 | 12110 | 25 | 368 | 24 |
|  | SN | 239 | 16 | 1016 | 18 | 197 | 10 | 128 | 17 |
| 1991 | GN | 16 | 13 | 1813 | 36 | 10931 | 25 | 375 | 24 |
|  | SN | 64 | 5 | 2958 | 18 | 178 | 7 | 228 | 18 |
| 1990 | GN | 12 | 17 | 977 | 26 | 8583 | 32 | 282 | 21 |
|  | SN | 215 | 17 | 556 | 15 | 60 | 20 | 296 | 15 |
| 1989 | GN | 20 | 11 | 1525 | 26 | 8638 | 28 | 428 | 22 |
|  | SN | 78 | 11 | 1059 | 18 | 70 | 18 | 87 | 17 |
| 1988 | GN | 56 | 18 | 727 | 18 | 14141 | 23 | 305 | 17 |
|  | SN | 190 | 16 | 888 | 15 | 273 | 4 | 229 | 15 |
| 1987 | GN | 39 | 13 | 1015 | 19 | 5803 | 17 | 192 | 13 |
|  | SN | 156 | 13 | 1780 | 18 | 215 | 7 | 269 | 12 |
| 1986 | GN | 345 | 27 | 1125 | 25 | 6095 | 21 | 529 | 23 |
|  | SN | 328 | 35 | 1221 | 24 | 94 | 8 | 389 | 22 |
| 1985 | GN | 74 | 24 | 813 | 21 | 12504 | 26 | 169 | 16 |
|  | SN | 241 | 24 | 1099 | 17 | 819 | 9 | 241 | 12 |
| 1984 | GN | 18 | 27 | 2929 | 23 | 7705 | 22 | 435 | 15 |
|  | SN | 543 | 27 | 1580 | 20 | 761 | 6 | 355 | 14 |
| 1983 | GN | 6 | 12 | 2377 | 22 | 4699 | 15 | 501 | 14 |
|  | SN | 108 | 12 | 2157 | 22 | 0 | 0 | 55 | 14 |
| 1982 | GN |  |  | 3155 | 34 | 8799 | 18 | 548 | 17 |
|  | SN |  |  | 1649 | 34 | 827 | 6 | 197 | 17 |
| 1981 | GN |  |  | 2127 | 26 | 13170 | 26 | 552 | 11 |
|  | SN |  |  | 1189 | 26 | 401 | 8 | 49 | 11 |
| 1980 | GN |  |  | 2980 | 20 | 5726 | 13 | 852 | 15 |
|  | SN |  |  | 912 | 20 | 6 | 2 | 158 | 15 |
| AVG 99-08 | GN | 3 | 2 | 2461 | 14 | 2898 | 10 | 50 | 6 |
|  | SN | 1 | 0 | 355 | 13 | 256 | 10 | 36 | 9 |
|  | TOTAL | 3 | 2 | 2816 | 27 | 3153 | 20 | 85 | 14 |
| AVG 90-99 | GN | 104 | 17 | 2845 | 28 | 8705 | 20 | 290 | 17 |
|  | SN | 142 | 9 | 1271 | 15 | 242 | 8 | 126 | 11 |
|  | TOTAL | 246 | 26 | 4116 | 43 | 8947 | 28 | 416 | 28 |
| AVG 80-89 | GN | 80 | 19 | 1877 | 23 | 8728 | 21 | 451 | 16 |
|  | SN | 235 | 20 | 1353 | 21 | 347 | 7 | 203 | 15 |
|  | TOTAL | 315 | 38 | 3231 | 45 | 9075 | 28 | 654 | 31 |

[^2]Table 31. Annual escapement data for Canadian Area 1 (2009 is preliminary).

| AREA 1 |  |  |  |
| :---: | :---: | :---: | :---: |
| YEAR | SOCKEYE | PINK | CHUM |
| 2009* | 7,500 | - | n/a |
| 2008 | 9,100 | 607,750 | 600 |
| 2007 | 8,500 | - | 1,950 |
| 2006 | 26,700 | 250,250 | 18,300 |
| 2005 | 1,500 | 2 | 1,650 |
| 2004 | 10,000 | 177,500 | 4,002 |
| 2003 | 7,500 | - | 34,081 |
| 2002 | 9,850 | 939,003 | 7,000 |
| 2001 | 3,900 | 1 | 3,804 |
| 2000 | 19,200 | 465,000 | 13,520 |
| 1999 | 15,550 | 2,700 | 33,000 |
| 1998 | 14,000 | 747,200 | 32,100 |
| 1997 | 12,000 | 77,200 | 31,050 |
| 1996 | 19,300 | 2,924,000 | 6,725 |
| 1995 | 7,100 | 1,000 | 19,855 |
| 1994 | 8,700 | 647,000 | 32,150 |
| 1993 | 500 | 350 | 50,060 |
| 1992 | 12,100 | 994,800 | 6,300 |
| 1991 | 4,400 | 600 | 1,000 |
| 1990 | 200 | 1,389,560 | 4,700 |
| 1989 | 11,200 | 1,300 | 18,975 |
| 1988 | 23,600 | 566,100 | 29,950 |
| 1987 | 9,100 | 4,500 | 51,100 |
| 1986 | 13,500 | 838,500 | 82,500 |
| 1985 | 43,200 | 1,875 | 63,800 |
| 1984 | 18,500 | 1,213,900 | 52,775 |
| 1983 | 19,500 | 2,130 | 35,225 |
| 1982 | 28,500 | 362,000 | 70,800 |
| 1981 | 23,000 | 3,650 | 26,100 |
| 1980 | 33,200 | 290,795 | 14,768 |
| 1979 | 20,650 | 3,250 | 32,450 |
| 1978 | 20,300 | 217,500 | 56,200 |
| 1977 | 36,750 | 4,900 | 60,300 |
| 1976 | 40,900 | 285,050 | 53,500 |
| 1975 | 16,500 | 3,950 | 53,050 |
| 1974 | 39,000 | 201,400 | 41,800 |
| 1973 | 38,000 | 4,000 | 50,000 |
| 1972 | 17,500 | 329,900 | 8,600 |
| 1971 | 16,500 | 6,050 | 44,500 |
| 1970 | 26,500 | 432,650 | 24,800 |
| Averages |  |  |  |
| 1970-74 | 27,500 | 194,800 | 33,940 |
| 1975-79 | 27,020 | 102,930 | 51,100 |
| 1980-84 | 24,540 | 374,495 | 39,934 |
| 1985-89 | 20,120 | 282,455 | 49,265 |
| 1990-94 | 5,180 | 606,462 | 18,842 |
| 1995-99 | 13,590 | 734,980 | 24,546 |
| 1997-06 | 12,020 | 258,166 | 17,851 |
| 2000-09 | 9,394 | 219,390 | 8,923 |

Table 32. Annual escapement data for Canadian Area 3 (2009 is preliminary).

| YEAR | SOCKEYE | COHO | PINK | CHUM | CHINOOK |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2009* | 179,650 | 14,390 | 640,214 | 20,615 | 3,033 |
| 2008 | 218,075 | 4,967 | 58,742 | 14,649 | 5,509 |
| 2007 | 165,063 | 47,640 | 588,684 | 17,207 | 26,993 |
| 2006 | 250,642 | 88,746 | 130,425 | 44,691 | 25,675 |
| 2005 | 226,022 | 94,554 | 944,415 | 30,001 | 14,969 |
| 2004 | 217,271 | 60,728 | 542,500 | 54,033 | 18,460 |
| 2003 | 199,458 | 18,254 | 841,856 | 40,002 | 31,009 |
| 2002 | 338,879 | 30,224 | 598,264 | 17,813 | 17,639 |
| 2001 | 117,692 | 26,366 | 826,632 | 30,472 | 34,520 |
| 2000 | 138,042 | 17,339 | 322,990 | 20,718 | 20,144 |
| 1999 | 217,551 | 13,216 | 464,775 | 33,427 | 12,524 |
| 1998 | 193,810 | 9,781 | 147,940 | 138,440 | 24,673 |
| 1997 | 237,312 | 3,989 | 216,527 | 20,302 | 19,807 |
| 1996 | 219,825 | 12,753 | 315,160 | 22,890 | 22,943 |
| 1995 | 237,991 | 13,967 | 349,017 | 40,451 | 8,811 |
| 1994 | 179,262 | 15,329 | 155,356 | 33,199 | 24,850 |
| 1993 | 440,740 | 7,510 | 314,102 | 79,951 | 25,851 |
| 1992 | 645,964 | 16,118 | 196,808 | 15,684 | 17,716 |
| 1991 | 269,850 | 16,777 | 388,100 | 23,835 | 7,924 |
| 1990 | 155,472 | 38,510 | 154,968 | 30,980 | 26,511 |
| 1989 | 112,609 | 20,690 | 641,270 | 33,769 | 29,195 |
| 1988 | 136,760 | 10,551 | 185,065 | 47,050 | 16,840 |
| 1987 | 184,242 | 31,652 | 371,866 | 31,387 | 21,459 |
| 1986 | 187,251 | 34,910 | 375,245 | 34,900 | 38,661 |
| 1985 | 361,208 | 44,539 | 508,855 | 48,971 | 19,512 |
| 1984 | 182,450 | 67,650 | 531,035 | 67,425 | 24,567 |
| 1983 | 185,150 | 36,360 | 738,205 | 45,115 | 15,738 |
| 1982 | 306,070 | 31,055 | 427,135 | 29,476 | 10,772 |
| 1981 | 255,818 | 34,429 | 204,425 | 16,508 | 14,200 |
| 1980 | 155,515 | 22,405 | 130,777 | 54,794 | 14,908 |
| 1979 | 212,944 | 18,655 | 50,625 | 42,313 | 13,151 |
| 1978 | 147,718 | 33,100 | 401,445 | 75,970 | 18,635 |
| 1977 | 400,371 | 35,605 | 229,155 | 57,775 | 15,788 |
| 1976 | 143,405 | 32,700 | 158,175 | 64,650 | 5,590 |
| 1975 | 70,874 | 15,410 | 141,758 | 30,550 | 6,025 |
| 1974 | 193,703 | 16,435 | 84,915 | 121,570 | 3,775 |
| 1973 | 284,682 | 9,400 | 70,786 | 66,025 | 3,550 |
| 1972 | 178,716 | 20,850 | 244,250 | 81,125 | 19,800 |
| 1971 | 247,524 | 44,325 | 136,525 | 28,825 | 17,000 |
| 1970 | 115,503 | 43,300 | 224,750 | 35,400 | 18,250 |
| Averages |  |  |  |  |  |
| 1970-74 | 204,026 | 26,862 | 152,245 | 66,589 | 12,475 |
| 1975-79 | 195,062 | 27,094 | 196,232 | 54,252 | 11,838 |
| 1980-84 | 217,001 | 38,380 | 406,315 | 42,664 | 16,037 |
| 1985-89 | 196,414 | 28,468 | 416,460 | 39,215 | 25,133 |
| 1990-94 | 338,258 | 18,849 | 241,867 | 36,730 | 20,570 |
| 1995-99 | 221,298 | 10,741 | 298,684 | 51,102 | 17,752 |
| 1997-06 | 213,668 | 36,320 | 503,632 | 42,990 | 21,942 |
| 2000-09 | 212,528 | 42,874 | 574,637 | 29,943 | 19,756 |

Table 33. Annual escapement data for Canadian Area 4 (2009 is preliminary).

| YEAR | SOCKEYE | PINK | CHUM |
| :---: | :---: | :---: | :---: |
| 2009* | 750,000 | 2,367,364 | 992 |
| 2008 | 958,295 | 65,181 | 510 |
| 2007 | 1,035,634 | 627,423 | 474 |
| 2006 | 1,340,257 | 116,097 | 685 |
| 2005 | 703,959 | 1,213,770 | 2,335 |
| 2004 | 960,251 | 647,921 | 1,340 |
| 2003 | 1,211,762 | 1,517,355 | 1,782 |
| 2002 | 625,215 | 543,880 | 3,030 |
| 2001 | 1,508,045 | 1,017,612 | 8,620 |
| 2000 | 1,410,296 | 260,481 | 4,650 |
| 1999 | 624,366 | 1,095,152 | 2,650 |
| 1998 | 521,417 | 272,871 | 14,664 |
| 1997 | 984,947 | 484,476 | 21,750 |
| 1996 | 1,727,147 | 2,025,661 | 8,404 |
| 1995 | 1,720,292 | 1,641,489 | 7,928 |
| 1994 | 1,026,816 | 242,035 | 7,967 |
| 1993 | 1,629,426 | 663,888 | 10,052 |
| 1992 | 1,550,109 | 821,950 | 11,285 |
| 1991 | 1,232,568 | 4,797,937 | 4,680 |
| 1990 | 989,566 | 2,611,520 | 6,343 |
| 1989 | 1,137,994 | 4,675,527 | 20,331 |
| 1988 | 1,417,543 | 828,090 | 108,921 |
| 1987 | 1,324,128 | 3,180,414 | 7,652 |
| 1986 | 716,312 | 2,323,944 | 12,780 |
| 1985 | 2,174,806 | 2,042,150 | 12,198 |
| 1984 | 1,055,215 | 1,037,698 | 29,764 |
| 1983 | 893,724 | 2,610,074 | 1,667 |
| 1982 | 1,140,737 | 739,247 | 4,626 |
| 1981 | 1,424,509 | 1,187,835 | 9,385 |
| 1980 | 542,164 | 745,367 | 25,007 |
| 1979 | 1,166,236 | 515,563 | 5,705 |
| 1978 | 424,075 | 724,597 | 8,153 |
| 1977 | 951,805 | 976,527 | 10,927 |
| 1976 | 575,590 | 693,850 | 11,071 |
| 1975 | 822,633 | 1,767,907 | 10,375 |
| 1974 | 723,898 | 367,605 | 14,102 |
| 1973 | 820,196 | 1,260,186 | 25,476 |
| 1972 | 697,237 | 1,765,154 | 36,920 |
| 1971 | 821,850 | 1,173,381 | 5,232 |
| 1970 | 578,652 | 971,800 | 10,890 |
| Averages |  |  |  |
| 1970-74 | 728,367 | 1,107,625 | 18,524 |
| 1975-79 | 788,068 | 935,689 | 9,246 |
| 1980-84 | 1,011,270 | 1,264,044 | 14,090 |
| 1985-89 | 1,354,157 | 2,610,025 | 32,376 |
| 1990-94 | 1,285,697 | 1,827,466 | 8,065 |
| 1995-99 | 1,115,634 | 1,103,930 | 11,079 |
| 1997-06 | 989,052 | 716,962 | 6,151 |
| 2000-09 | 1,050,371 | 837,708 | 2,442 |

Table 34. Annual escapement data for Canadian Area 5 (2009 is preliminary).

| YEAR | SOCKEYE | PINK | CHUM |
| :---: | :---: | :---: | :---: |
| 2009* | UKN | 164,350 | 3,998 |
| 2008 | 2,600 | 22,049 | 2,141 |
| 2007 | 14,150 | 111,200 | 1,125 |
| 2006 | 23,620 | 29,490 | 3,328 |
| 2005 | 14,000 | 277,400 | 2,600 |
| 2004 | 13,600 | 95,370 | 2,790 |
| 2003 | 42,850 | 233,825 | 4,110 |
| 2002 | 9,500 | 406,810 | 4,910 |
| 2001 | 21,500 | 395,650 | 3,080 |
| 2000 | 22,600 | 278,150 | 1,070 |
| 1999 | 23,500 | 313,450 | 900 |
| 1998 | 10,450 | 161,250 | 9,250 |
| 1997 | 28,400 | 68,750 | 2,260 |
| 1996 | 24,100 | 270,100 | 3,200 |
| 1995 | 8,700 | 90,900 | 3,880 |
| 1994 | 6,800 | 44,725 | 870 |
| 1993 | 33,150 | 39,475 | 1,795 |
| 1992 | 22,895 | 41,161 | 731 |
| 1991 | 32,035 | 70,160 | 4,113 |
| 1990 | 5,676 | 202,244 | 3,607 |
| 1989 | 21,900 | 178,500 | 4,750 |
| 1988 | 33,400 | 162,000 | 12,750 |
| 1987 | 26,550 | 127,950 | 10,175 |
| 1986 | 25,000 | 313,900 | 16,450 |
| 1985 | 37,250 | 176,075 | 11,765 |
| 1984 | 17,150 | 162,450 | 6,830 |
| 1983 | 12,450 | 81,025 | 4,596 |
| 1982 | 19,450 | 70,300 | 7,370 |
| 1981 | 16,000 | 121,850 | 3,120 |
| 1980 | 16,800 | 225,825 | 9,350 |
| 1979 | 16,000 | 43,000 | 13,950 |
| 1978 | 28,650 | 264,850 | 13,775 |
| 1977 | 11,400 | 110,275 | 32,170 |
| 1976 | 19,050 | 348,450 | 19,625 |
| 1975 | 50,000 | 170,375 | 10,075 |
| 1974 | 43,925 | 337,075 | 34,025 |
| 1973 | 32,425 | 56,375 | 18,975 |
| 1972 | 24,400 | 280,725 | 17,725 |
| 1971 | 55,225 | 80,761 | 25,625 |
| 1970 | 23,750 | 139,850 | 12,250 |
| Averages |  |  |  |
| 1970-74 | 35,945 | 178,957 | 21,720 |
| 1975-79 | 25,020 | 187,390 | 17,919 |
| 1980-84 | 16,370 | 132,290 | 6,253 |
| 1985-89 | 28,820 | 191,685 | 11,178 |
| 1990-94 | 20,111 | 79,553 | 2,223 |
| 1995-99 | 19,030 | 180,890 | 3,898 |
| 1997-06 | 21,002 | 226,015 | 3,430 |
| 2000-09 | 18,792 | 216,339 | 2,605 |

## FIGURES



Figure 1. Alaska Department of Fish and Game Southern Southeast Alaska regulatory districts.


Figure 2. Canadian Department of Fisheries and Oceans Statistical Areas 1-10, Northern British Columbia.


Figure 3. Canadian Department of Fisheries and Oceans Statistical Area 1 management sub-areas.


Figure 4. Canadian Department of Fisheries and Oceans Statistical Area 3 management subareas.


[^0]:    NOTE: 2009 CATCH FIGURES ARE BASED ON PHONE-IN HAIL DATA (FOS), AS SALES SLIP DATA NOT FINALISED.
    *INCLUDES FISH CAPTURED DURING TEST FISHERY
    **DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

[^1]:    NOTE: 2009 CATCH FIGURES ARE BASED ON PHONE-IN HAIL DATA (FOS), AS SALES SLIP DATA NOT FINALISED.
    *DAYS FISHING: HOURS OF FISHING ARE REPRESENTED AS A PORTION OF A 24-HOUR DAY.

[^2]:    *DAYS FISHING: REPRESENTS HOURS FISHING AS A PORTION OF A 24-HOUR DAY.

