# 2009 North Coast (Areas 3 \& 4) Creel Survey Statistics for Salmon and Groundfish 

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#### Abstract

This report documents 2009 catch and effort statistics for the North Coast (DFO Statistical Areas 3 \& 4) creel survey and describes the methods employed to collect the data. Creel surveys have been conducted in eight seasons since 1995 , using a combined access point and aerial survey design. The 2009 survey was completed by Fisheries and Oceans Canada in a similar manner to the survey conducted in 2008, utilizing data entry and analysis tools developed and used by Fisheries and Oceans Canada, South Coast for the Strait of Georgia since 1982.

The survey commenced 1 June 2009 and operated until 13 September 2009. A total of 2,856 access point interviews were collected during 221 survey shifts, 2,966 sport fishing boats were counted during 32 aerial surveys, and details of 990 lodge-based fishing trips were recorded in 16 log books.

The survey focused on catch and effort data for Pacific salmon (Oncorhynchus spp.), Pacific Halibut (Hippoglossus stenolepis), Lingcod (Ophiodon elongates) and Rockfish (Sebastes spp.). Total fishing effort was estimated to be 10,529 boat trips. Total Chinook salmon catch was estimated to be 9,177 pieces, total Coho salmon catch was estimated to be 40,324 pieces and total other salmon catch was estimated to be 2,384 pieces. Total halibut, lingcod and other groundfish catch was estimated to be 12,842, 2,986 and 450 pieces respectively. Total rockfish catch was estimated to be 6,649 pieces.

Creel surveyors inspected 437 Chinook salmon for adipose fin clips, of which 31 were marked. Creel surveyors inspected 815 Coho salmon for adipose fin clips, of which 8 were marked. 1,027 halibut were measured for length and weights were estimated using the International Pacific Halibut Commission's length-weight table. The average weight of sampled halibut was calculated to be 22.5 pounds.


## RÉSUMÉ

Le présent rapport documente les statistiques sur les prises et l'effort pour la côte Nord (zones statistiques 3 et 4 du MPO) recueillies en 2009 dans le cadre de l'enquête par interrogation des pêcheurs et décrit la méthode de collecte des données. Des enquêtes par interrogation des pêcheurs ont été menées à huit reprises depuis 1995, par une méthode combinant les points d'accès et le survol aérien. Pêches et Océans Canada a effectué l'enquête de 2009 comme il l'a fait en 2008, en utilisant les outils d'entrée et d'analyse des données développés par le Secteur Côte Sud du Ministère et utilisés dans le détroit de Georgia depuis 1982.

Le relevé a débuté le $1^{\text {er }}$ juin 2009 et a pris fin le 13 septembre suivant. Au total, 2856 pêcheurs ont été interrogés aux points d'accès durant 221 périodes d'enquête, 2966 bateaux de pêche sportive ont été dénombrés lors de 32 survols et les détails de 990 sorties à partir de camps de pêche ont été consignés dans 16 registres de pêche.

L'accent du relevé de 2009 a été mis sur les prises et l'effort de pêche du saumon du Pacifique (Oncorhynchus sp.), du flétan du Pacifique (Hippoglossus stenolepis), de la morue-lingue (Ophiodon elongatus) et du sébaste (Sebastes $s p$.$) L'effort de pêche total a été estimé à 10529$ sorties. Les prises totales de saumons quinnats, de saumons Cohos et de saumons autres ont été estimées comme se chiffrant respectivement à 9177,40324 et 2384 ; les prises totales de flétan, de morue-lingue et de poissons de fond autres, à 12842,2986 et 450 respectivement; et les prises totales de sébaste, à 6649 .

Les sondeurs ont examiné 437 quinnats et 815 Cohos pour établir si leur nageoire adipeuse avait été rognée; 31 quinnats et 8 Cohos avaient ainsi été marqués. Ils ont aussi mesuré la longueur de 1027 flétans et, en utilisant le tableau longueur-poids de la Commission internationale du flétan du Pacifique, ont établi que leur poids moyen se chiffrait à 22,5 livres.

## INTRODUCTION

This report documents 2009 catch and effort statistics for the North Coast (Fisheries and Oceans, Canada (DFO) Statistical Areas 3 \& 4) creel survey and describes the methods employed to collect the data. Creel surveys have run in eight seasons since 1995, allowing comparisons of catch and effort estimates between years (Table 1 to 7 ). Statistics from creel surveys can be used to measure the effectiveness of conservation measures.

Sport fishing in the waters surrounding Prince Rupert is a popular activity for both residents and visitors to the area. A robust fishery has developed in response to this popularity and effort in the fishery increased from 6,740 boat days in 1995 (J.O. Thomas, 1995) to 12,352 boat days in 2008 (Talbot-Ellis, in press).

The Prince Rupert tidal recreational fishery is focused on DFO Statistical Areas 3 \& 4, comprising the waters of Chatham Sound between the Nass and Skeena Rivers on BC's north coast (Figure 1). Chatham Sound is bordered by the Alaska/BC border to the north, Dundas and Stephens Island groups to the west and Porcher Island to the south, and covers an area of $4200 \mathrm{~km}^{2}$. The target species include Pacific salmon (Oncorhynchus spp.), Pacific Halibut (Hippoglossus stenolepis), Lingcod (Ophiodon elongates), Rockfish (Sebastes spp.) and Dungeness crab (Cancer magister). Participants in the fishery include charter operators, fishing lodges, resident anglers and visiting anglers.

In Areas 3 \& 4, fishing for salmon is open year-round. The majority of the fishing effort occurs between May and September, coincident with seasonal migrations of Nass and Skeena River salmon stocks. Chinook salmon (O. tshawytscha) and Coho salmon (O. kisutch) were the main targeted salmon species, with smaller amounts of other salmon species caught as bycatch. Pacific salmon daily bag limits were 4 salmon per day, only 2 of which could be Chinook. Possession limits were 8 salmon, only 4 of which could be Chinook. Each angler was permitted to keep a maximum of 30 Chinook salmon per year. The minimum size limit for salmon was 30 cm except for Chinook, which had to have a minimum size of 45 cm .

The recreational halibut season opened on March 1, 2009, with a daily bag limit of one halibut per angler. This bag limit was in effect until August 21, when the daily bag limit was increased to two. The possession limit remained at two halibut for the entire 2009 season.

Fishing for Dungeness crab, Lingcod and rockfish was open year round. Dungeness crab limits were 6 per day, 12 in possession. Lingcod limits were 3 per day, 6 in possession. Rockfish limits were 5 per day (only 3 of which could be yellow eye rockfish) with a possession limit of 10 rockfish. There were 4
rockfish conservation areas within the study area where recreational angling was not permitted (Appendix A ).

The purpose of this survey was to provide estimates of salmon and groundfish catch and effort with known variance. A priority for the survey was to provide in-season estimates of halibut biomass harvested by recreational anglers in Areas 3 \& 4.

## METHODS

The 2009 creel survey was conducted between June 1 and September 13, 2009. The survey was a hybrid design with four components: an access point ground survey, an aerial survey, a trailer census and a fishing lodge log book program. The study design was similar to that in use in the Georgia Strait since 1982, and utilized entry and analysis tools developed by DFO South Coast, known as the Catch and Release Estimation Tools, or CREST (Korman et al, 2005). The fishery was stratified by the following criteria:

- Month - statistics were summarized for June, July, August and September.
- Sub-statistical area - the study area was divided into smaller areas, based on the nature of the fishery.
- Day type - the nature of the fishery was thought to differ between weekdays and weekend days. Holidays were considered weekend days.
- Trip type - guided trips generally have a higher catch rate than unguided trips according to unpublished data from prior creel surveys. While guided/unguided trips were kept separate during data collection, catch estimates were created using combined data.


## GROUND SURVEY

The access point ground survey consisted of an interview designed to collect catch information, angling activity times and biological samples of selected species from angling parties as they landed. The surveyor spent an 8 hour shift (stint) at the landing site, approaching landing parties and asking a series of questions about their angling trip, the answers to which were recorded on a creel survey form (Appendix C). The surveyor recorded catch composition, times and locations of angling activity, species targeted, and characteristics of the angling party (size, guided, etc). This data was used to calculate species specific and strata specific Catch per Unit Effort (CPUE) values and to create angler activity profiles. During each stint surveyors maintained a tally of all boats landing at the site, including boats interviewed, boats not fishing and boats not interviewed. Total landings were recorded for each time block (Appendix C).

Sampling objectives were to interview 20\% of landings each month. In combination with the effort estimates from approximately 30 aerial surveys, this
level of sampling provided coefficients of variation of $5 \%$ around catch estimates in recent creel surveys conducted in Areas 3 \& 4 (J.O. Thomas, 2002).

Biological data were collected from Chinook salmon, Coho salmon and Pacific halibut when possible. Coho and Chinook salmon were examined for missing adipose fins to generate fin clip incidence data for coded wire tag analyses. Scale samples were collected from Chinook salmon and submitted to the Pacific Biological Station for age and genetic analyses to determine age and stock composition of the sport catch in the study area. Genetic samples from Chinook salmon caught in the Area 3 \& 4 recreational fishery were compared against genetic baselines from 268 Chinook salmon populations in the eastern Pacific from Alaska to California. Samples were analyzed for 13 microsatellite loci using methods of DNA extraction, PCR reaction, electrophoresis, and allele scoring described by Candy et al. (2002) and Beacham et al. (2006). The Molecular Genetics Laboratory at the Pacific Biological Station provided the sample analyses using a program called "c-BAYES". (http://www-sci.pac.dfompo.gc.ca/mgl/data e.htm)

Halibut lengths were converted to weights using the International Pacific Halibut Commission (IPHC) length weight tables. (http://www.iphc.washington.edu/halcom/pubs/bulletin/lenwtmetchart.htm)

Access to the Chatham Sound fishery was limited by the topography of the region and limited infrastructure. There were five major access points in and around Prince Rupert (Figure 1), and sampling was conducted at each site.

1. Rushbrook boat launch and floats - this was the busiest sampling site, serving a variety of angling trips. Resident anglers, visitor anglers and charter operators utilized this site. The site consisted of a double width boat launch, parking lots and government floats. There were no fish dressing tables at this site. Most anglers processed their catch onboard their vessels or at home. At peak periods, surveyors could not collect biological data at this site since anglers were in a hurry to get their boats on trailers and out of the water.
2. Wampler's Marine Services - six dressing tables were available at this site but the fuel and running water present in 2008 were no longer offered. This was still a popular landing site for the charter fleet and provided surveyors with opportunities to collect biological samples from most boat trips observed. This site was not available after 21 August 2009, due to dock construction.
3. Prince Rupert Yacht Club/Northwest Fuels (formerly Stromdahl's) - these two neighboring locations were combined into a single sampling site due to their proximity to each other and moderate traffic. One surveyor could collect data from most boat trips landing at these two locations during a shift. There were a total of three dressing tables between the two sites.
4. Port Edward boat launch - this site was located approximately 15 km from Prince Rupert, and was popular with residents, visitors, and some charter operators. A single width boat launch and a dressing table with running water were the amenities on the site. Proximity to the fishing locations in the
southern parts of Chatham Sound near the mouth of the Skeena River, as well as free parking made this a consistently busy landing site. This site usually offered opportunities for observations of catch and collection of biological data.
5. Lachmach Forest Recreation Site - this rudimentary site, approximately 50 km from Prince Rupert, was located at the southern end of Work Channel. This site provided relatively sheltered access to fishing locations at the north end of Work Channel where it enters Portland Inlet. This site was popular with inland Canadian residents from Terrace, the Lakes District, Prince George and the Prairie Provinces. The access road was closed between 17 and 21 August. Traffic volumes at this site were relatively low so very few shifts were conducted here.

Sampling effort by the access point ground survey was stratified by week, day type, and time of day based on weekly effort estimates from the 2008 creel survey (Talbot-Ellis - in press). Sampling effort was increased coincident with increased fishing effort expected at the end of June, early July, and weeks with holiday weekends (Table 8). Weekly stints were weighted to day type with 60\% of sampling effort assigned to weekdays and $40 \%$ of sampling effort assigned to weekend days. Holidays were considered as weekend days. Sampling sites were selected to meet the objective of sampling at least $20 \%$ of fishing effort. Survey shifts were assigned to time of day (morning or afternoon-evening) with the constraint that only $10 \%$ of the survey stints were assigned to morning shifts. In-season adjustments were made to the stint schedule to maximize sampling opportunities when it became evident that the late evening part of the stints were encountering no anglers or when aerial surveys indicated high levels of effort near Work Channel (e.g. 2 pm to 10 pm stints were altered to 11 am to 7 pm stints to interview trips returning earlier in the day due to high levels of success and stints at Lachmach were scheduled during periods when high levels of effort were observed in subarea 3K) (Table 9 and Appendix B).

## AERIAL SURVEY

A total of 32 flights were made in a fixed-wing aircraft (de Havilland DHC-2 Beaver) following a standard flight path (Figure 2). The aircraft flew at an average elevation of 300 ft and airspeed of 100 mph to allow good visibility of sport-fishing boats. Flights were weighted $60 \%$ to week days and $40 \%$ to weekend days and flight effort was assigned by week using the 2008 weekly effort estimates (Table 8). Flight days within each week were selected randomly, (Appendix B). Minor adjustments were made to the flight schedule due to weather, visibility or scheduling challenges. Minor adjustments were made to the flight path to maximize observation of the fishing fleet during the season.

The flights commenced near noon to coincide with the peak in angler activity established in prior creel surveys (J.O. Thomas, 2002, Talbot-Ellis, in press). Flights averaged 1.7 hours in length. Data was collected on the number
of boats observed in each subarea, the time spent in each subarea and the conduct of the boats, whether they were running or fishing (Appendix C). A Garmin GPS unit was used to determine locations of subarea boundaries. The aerial surveys provided estimates of the effort for each subarea at the time of the flights.

## TRAILER CENSUS

During each creel survey stint at Rushbrook or Port Edward, a count of trailers parked at the location was conducted at a time between noon and 2 pm . Timing was similar to the aerial survey to conduct counts during the peak in fishing activity. The results of the trailer census were compared to the available flight data, and analyzed to determine the statistical correlation. Prior to this analysis, any lodge boats active during the flight were removed from the boat count. The trailer counts were an economical way to track changes in effort during days without aerial surveys.

## LODGE LOG BOOK PROGRAM

Three fishing lodges were operating in Area 3 in 2009, and each was provided with log books. Log book data were collected in-season and postseason, and incorporated into catch estimates using CREST data entry and analysis tools. The log book data provided a census of fishing lodge angling activity, as complete catch records were kept for each lodge-based boat trip (Appendix C).

## DATA COLLECTION, MANAGEMENT AND ANALYSIS

Surveyors routinely delivered their completed data forms to the office, where they were sorted by date prior to data entry. The CREST data entry application was used through the season to input field data into the creel database. A verification process was utilized to ensure accurate entry of data, prior to calculation of catch estimates.

Data analysis was conducted using CREST tools. Calculation of catch estimates, interview, log book and flight data was stratified by month (June, July, August, September), sub-statistical area, and day type (weekday or weekend). Strata-specific CPUE values were then calculated for each target species using the interview data. Subareas with fewer than five weekday or weekend interviews per month were grouped with neighboring subareas for CPUE calculations according to Table 10. Interview data was used to create angling activity profiles. Fishing effort was calculated from the aerial survey data combined with the angling activity profile for the subarea. Korman et al, 2005, summarizes formulae utilized by the CREST analysis program. Preliminary catch estimates were provided to recreational fishery managers in-season.

## RESULTS

## CATCH AND RELEASE ESTIMATES


#### Abstract

Salmon An estimated 9,177 Chinook salmon were retained by anglers in Areas 3 and 4 during the survey period, with a standard error of 522. Subarea 3 J had the highest catch of Chinook, with 2,756 pieces, representing $30 \%$ of the total catch. Subarea 4F was the second most productive, at 1,450 pieces, or $16 \%$ of the total catch. Subarea 31 was the third most productive area, at 1,414 pieces, or $15 \%$ of the total catch (Table 11, Figure 3). An estimated 1,703 Chinook salmon were released by anglers during the survey period. (Appendix D)


An estimated 40,324 Coho salmon were retained by anglers during the survey period, with a standard error of 1,903 . July and August were the most productive months, at 17,043 and 16,459 pieces respectively (Table 5). The most Coho salmon were caught in Subarea 4F, with 9,236 pieces, or $23 \%$ of the total catch. Subarea 3J was the second most productive, at 7,950 pieces, or $20 \%$ of the total catch. Subarea 31 was the third most productive, at 5,770 pieces, or $14 \%$ of the total catch (Table 12, Figure 4). An estimated 4,693 Coho salmon were released by anglers during the survey period (Appendix D).

An estimated 2,384 other salmon were retained by anglers during the survey period, with a standard error of 246 . Over 1,900 of these were pink salmon, with chum, sockeye and unknown salmon making up the remainder. An estimated 895 other salmon were released by anglers during the survey period (Table 13 and Appendix D).

## Halibut

An estimated 12,842 halibut were retained by anglers during the 2009 survey period, with a standard error of 740 . June and July were the most productive months, at over 4,000 pieces each (Table 7). Most of the halibut were caught in subarea 4H (Chatham Sound - North), with an estimated 2,729 pieces retained, representing $21 \%$ of the total catch. Subareas 3 J and 4 F were the next most productive areas for halibut, each responsible for $16 \%$ of the total halibut catch. An estimated 1,655 halibut were released by anglers during the survey period (Appendix D).

## Lingcod, Other Groundfish and Rockfish

An estimated 2,986 lingcod were retained by anglers during the 2009 survey period, with a standard error of 326 . Subareas $3 \mathrm{~J}, 4 \mathrm{~F}$ and 4 H were the most productive. (Table 15, Figure 6) Anglers released an estimated 123
lingcod. An estimated total of 450 other groundfish were retained by anglers in 2009 with an estimated 1,079 released; species include Arrowtooth flounder (Turbot), Cabezon, Dogfish, Greenling, Pacific Cod, Rock Sole, Sablefish and Starry flounder (Table 13 and Appendix D). An estimated total of 6,649 rockfish were kept by anglers this season; species include Black, Blue, Canary, China, Copper, Dusky, Quillback, Redstripe, Tiger, Yellow Eye (Red Snapper), and Yellow Tail rockfish. Anglers released an estimated 407 rockfish (Table 13 and Appendix D).

## DISTRIBUTION OF SAMPLING EFFORT

Creel survey surveyors worked 221 sampling stints over the 16 weeks from June 1 to September 13, 2009. They collected data from 2,856 fishing interviews resulting in an average of 13 interviews per stint (Table 16, Figure 7). $35 \%$ of interviews were collected from guided fishing trips (Table 17, Figure 8). The distribution of sampling effort closely followed fishing effort during the season (Table 18, Figure 9 and 10). The goal of sampling $20 \%$ of fishing effort was met in all time strata except September, where $19 \%$ of effort was sampled (Table 16). Rushbrook was the busiest site, providing data for almost 1,200 subarea fishing trips (Table 19, Figure 11).

At total of 32 flights were conducted during the season and a total of 2,966 boats were counted. Average weekday counts were 75 boats, and average weekend counts were 99 boats. The average weekday trailer count was 42 trailers, and average weekend counts were 63 trailers. Flight times closely corresponded with the peak in angler activity, as shown in the activity profiles presented in Figure 12 through 15.

Lodge boats reported fishing in an area at the time of the aerial survey were removed from the final boat count.

## FISHING EFFORT ESTIMATES

An estimated total of 10,529 boat trips were made between June 1 and September 13, with a standard error of 413 . July was the busiest month with a total of 3,804 boat trips, in June, effort was 3,043 boat trips, and August saw a total of 2,865 boat trips. Effort remained significant in September as an abundance of Coho and fair weather likely kept many anglers on the water.

Trailer counts were closely related to non-lodge effort (Pearson linear correlation coefficient of $r=0.835$ ) (Figure 16).

The busiest fishing area was subarea 4F (Qwaldzeet/Tree Nobs) which hosted an estimated 1,737 boat trips, representing $16 \%$ of total fishing effort. Subarea 3J (North/West Dundas Island) was the next busiest, hosting 1,522 boat
trips, or $14 \%$ of fishing effort. Fishing lodge activity was responsible for almost 400 boat trips in Subarea 3J. The third busiest subarea was 4C (Chatham Sound South), which hosted 1,406 boat trips, or $13 \%$ of fishing effort. This subarea includes the waters closest to Prince Rupert, with Lucy Islands being a popular destination for resident anglers (Table 20, Figure 17).

## LOG BOOKS

The three fishing lodges in Area 3 completed sixteen log books containing catch/effort information for 990 fishing trips. 879 of the 990 boat trips were completed during the survey period (June 1 to September 13, 2009). Log book data included catches of 1,240 Chinook, 2,291 Coho and 384 halibut as well as release estimates (Table 21). Lodge effort and catch data have been included in the statistics summarized by subarea above.

## BIOLOGICAL DATA

A total of 1,995 Chinook were reported caught to surveyors, of which 723 were sampled for length, gender, flesh colour, scales and/or adipose fin clips. The sex ratio of fish observed was $51: 49$ (male:female). Most of the fish, 76\%, were red fleshed, $19 \%$ were white fleshed and $5 \%$ were marbled red and white fleshed (Appendix E). The mean size of Chinook caught was 81 cm and ranged from 48 cm to 122 cm . The mode of the length frequency distribution was at 81 cm (Figure 18).

A total of 6,634 Coho were reported caught, of which 905 were sampled for length, gender and/or adipose fin clips. The sex ratio of fish observed was 54:46 (Appendix E). The mean size of Coho caught was 66 cm and ranged from 37 cm to 92 cm . The mode of the length frequency distribution was at 69 cm (Figure 19).

A total of 2,076 halibut were reported caught during interviews, and 1,243 halibut were observed, of which 1,027 were sampled for length. The average weight of halibut sampled in the 2009 creel survey was 22.5 lbs . (Appendix E). The mean size of halibut caught was 89 cm and ranged from 57 cm to 186 cm . The mode of the length frequency distribution was at 78 cm (Figure 20).

## Chinook and Coho Adipose Fin Clip Observations

A total of 223 Chinook salmon were examined for adipose fin clips by creel survey crews from catches in Area 3, of which 4 fin clipped fish were observed. Further, a total of 1,231 Chinook were recorded in lodge log books with 27 fin clipped Chinook included in the records. The total mark or fin clip incidence for Chinook salmon retained from Area 3, including lodge log book data and creel survey data, was $2.1 \%$. In Area 4, a total of 684 Chinook salmon
were examined by creel survey crews for adipose fin clips, of which 20 were marked. The mark incidence rate for Area 4 was $2.9 \%$. The mark incidence rate for the combined Area 3/4 recreational fishery was 2.4\% (Table 22).

At time of writing, a total of 33 Chinook salmon heads had been submitted by creel survey and/or lodge staff for coded wire tag removal and analysis, resulting in the successful recovery of 16 coded wire tags (Table 23).

A total of 815 Coho salmon were inspected and 8 had adipose fin clips, resulting in a mark incidence rate of $1 \%$. Additionally, 39 adipose fin clips were reported in the log book program from a catch of 2,291 coho salmon, resulting in a mark incidence rate of $1.7 \%$ for the lodge-based fishery. A total of 9 Coho salmon heads were submitted for coded wire tag removal and analysis, resulting in the successful recovery of six coded wire tags (Table 24).

## Stock Composition and Catch-At-Age for Chinook

A total of 568 Chinook scale samples were successfully analyzed for age and DNA, 122 samples from Area 3 and 446 samples from Area 4. Table 25 and 26 show the catch-at-age for Chinook broken down by stock for Areas 3 \& 4 respectively, and Table 27 shows percent stock composition for Areas $3 \& 4$. Most of the fish aged were 5 years from brood and had one freshwater annulus (stream type). Skeena and Nass stocks made the biggest contribution to the sampled catch in both areas. The majority of the sampled catch was from the 2004 and 2005 brood years. A significant proportion, 44\%, did not have a freshwater annulus (ocean type), consistent with the genetic results where a similar proportion was from southern rivers where ocean type fish are more prevalent (Table 27).

## DISCUSSION

## COMPARISONS WITH EARLIER SURVEYS

Effort in the recreational fishery in Areas 3 \& 4 has grown from 6,740 boat trips in 1995 to 10,529 boat trips in 2009. Over the same period Chinook salmon catch has grown from 1,813 pieces to 9,177 pieces, Coho salmon catch has grown from 3,759 pieces to 40,324 pieces, and halibut catch has grown from 2,129 pieces to 12,842 pieces (Tables 1-7, Figure 21). Fishing effort in 2009 was reduced from 2008 levels, probably due to a downturn in the economy. Coho catch grew to 40,324 , the highest amount recorded in any creel survey since 1995, in spite of reduced fishing effort observed in 2009. Management measures including the reduction in the daily bag limit for halibut from two in 2008 to one in early 2009 reduced the catch of halibut by nearly 50\%.

## SAMPLING AND ANALYSES

While this report includes estimates of released fish, it should be noted that a 2005 study in the Strait of Georgia (Diewert et al, 2005) compared creel survey release estimates with independent observer data, and found consistent biases in the creel data, underestimating fish released, particularly Chinook salmon, Coho salmon and rockfish. No such verification of fish released was conducted here so the release estimates may have had similar bias. Catch (when not observed) and release estimates suffer from the vagaries of angler recollection.

The reduction in the halibut bag limit to one at the start of the season resulted in the reluctance of some anglers to reveal halibut fishing locations, often stating "Chatham Sound" when asked. The "Chatham Sound" label on the creel survey map happens to fall in subarea 4 H , which could have resulted in a bias to the catch estimate for this subarea.

Examination of effort and interview data from subarea 4A, the Prince Rupert harbour area, suggests that this subarea was oversampled (i.e. angler interviews record more effort than suggested by the aerial survey). However, the nature of the fishery in this area was unique, with fishing activity concentrated in early morning and late afternoon hours as fishing parties set and hauled their shellfish traps. Interview data indicate that the fishing activity occurred in the morning and evening, essentially outside of the time when aerial surveys captured observations of effort.

The objective of sampling $20 \%$ of landings from Area 3 was not met through interviews. These areas were commonly accessed by multiple day fishing trips from Prince Rupert as they required significant time and fuel expense to reach. Although surveyors attempted to collect as much information as possible about multiple day trips, it was often difficult for anglers to recall details of the early portions of their trips. The CREST data entry and analysis program was designed to utilize interview data for a single day of fishing, usually the same day that the interview occurred. Aerial surveys observed multi-day boat trips that could not be sampled on the same day as the flight. The estimates assume that CPUE is similar between single day and multi-day fishing events. The goal of sampling $20 \%$ of boat trips in subareas I, J and K was only met if the Area 3 lodge trips reported in the log books were considered as $100 \%$ sampling events.

Direct observations of catches were limited due to anglers processing their catch at sea, storage of catch in coolers when surveyors had limited time to complete the interview, and reluctance of anglers to allow observation of their catch as they were in a hurry to leave the landing site. Port Edward, Wamplers and the Yacht Club were the best sites to collect biological samples. Rushbrook was generally a poor site for catch observation and biological sampling. Congestion at the Rushbrook ramp during peak periods and lack of any
processing facilities such as fish cleaning tables limited opportunities for observing and sampling fish.

## GUIDED / UNGUIDED CPUE COMPARISON

The refusal rate among guides increased significantly in 2009, at least partly in response to the change in the allowable catch of halibut by the sport fishery. Guided responses decreased by approximately $30 \%$ in 2009, causing concern about the impact of these refusals on the calculated catch estimates. Catch per Unit Effort (CPUE) estimates were calculated from the interview data for each species/trip type/strata combination. While guided CPUE was typically higher than unguided CPUE (Table 28 to 30 and Figure 22 to 24), the final catch estimates were calculated using the combined subarea average CPUE multiplied by the total effort count for the strata and expanded for the proportion of activity observed for the strata in the effort profile. The validity of this was tested by running simulations, using guided and unguided CPUE values, each multiplied by their corresponding proportion of fishing effort. Catch estimates produced using this method did not significantly vary from those calculated using combined CPUE, so no changes were required to the algorithms since it appeared that the refusals did not bias the catch estimates.

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TABLES

Table 1 - Areas 3 \& 4 Tidal Creel Survey Periods, 1995 to 2009

| Month | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Year 2001 | 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May | May 17-31 | May 15-31 | -- | -- | -- | -- | May 18-31 | May 15-31 | -- | -- | -- | May 15-31 | -- |
| June | Jun 1-30 | Jun 1-30 | -- | -- | -- | -- | Jun 1-30 | Jun 1-30 | -- | -- | -- | Jun 1-30 | Jun 1-30 |
| July | Jul 1-31 | Jul 1-31 | -- | Jul 9-31 | -- | Jul 1-31 | Jul 1-31 | Jul 1-31 | -- | -- | -- | Jul 1-31 | Jul 1-31 |
| Aug | Aug 1-31 | Aug 1-31 | -- | Aug 1-31 | -- | Aug 1-31 | Aug 1-31 | Aug 1-31 | -- | Aug 1-31 | -- | Aug 1-31 | Aug 1-31 |
| Sept | Sep 1-15 | Sep 1-15 | -- | Sep 1-20 | -- | Sep 1-30 | Sep 1-15 | Sep 1-15 | -- | Sep 1-15 | -- | Sep 1-14 | Sep 1-13 |

Table 2-Comparison of fishing effort during Area 3 \& 4 Tidal Creel Surveys, 1995 to 2009

| Month | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | Year 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May | 965 | 391 | -- | -- | -- | -- | 449 | 960 | -- | -- | -- | 983 | -- |
| June | 1,590 | 2,490 | -- | -- | -- | -- | 3,801 | 3,463 | -- | -- | -- | 4696 | 3043 |
| July | 1,394 | 2,385 | -- | 1,307 | -- | 1,842 | 2,588 | 2,892 | -- | -- | -- | 3750 | 3804 |
| Aug | 1,927 | 1,400 | -- | 1,351 | -- | 1,327 | 1,808 | 1,843 | -- | 2593 | -- | 2529 | 2865 |
| Sept | 864 | 488 |  | 504 | -- | 954 | 540 | 676 | -- | 758 | -- | 394 | 817 |
| Total | 6,740 | 7,154 | -- | 3,162 | -- | 4,123 | 9,186 | 9,834 | -- | 3,351 | -- | 12,352 | 10,529 |

Table 3 - Comparison of Chinook catch during Area 3 \& 4 Tidal Creel Surveys, 1995 to 2009

| Month | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\begin{gathered} \text { Year } \\ 2001 \\ \hline \end{gathered}$ | 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May | 141 | 45 | -- | -- | -- | -- | 509 | 522 | -- | -- | -- | 474 | -- |
| June | 907 | 2,165 | -- | -- | -- | -- | 6,630 | 4,028 | -- | -- | -- | 7708 | 4797 |
| July | 505 | 1,097 | -- | 254 | -- | 1,611 | 3,260 | 2,822 | -- | -- | -- | 3080 | 3873 |
| Aug | 245 | 257 | -- | 35 | -- | 108 | 299 | 474 | -- | 1207 | -- | 688 | 503 |
| Sept | 15 | 62 | -- | 6 | -- | 93 | 61 | 59 | -- | 203 | -- | 20 | 4 |
| Total | 1,813 | 3,626 | -- | 295 | -- | 1,812 | 10,759 | 7,905 | -- | 1,410 | -- | 11,970 | 9,177 |

Table 4 - Comparison of Chinook CPUE during Area 3 \& 4 Tidal Creel Surveys, 1995 to 2009

| Month | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\begin{gathered} \text { Year } \\ 2001 \\ \hline \end{gathered}$ | 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May | 0.15 | 0.12 | -- | -- | -- | -- | 1.13 | 0.54 | -- | -- | -- | 0.48 | -- |
| June | 0.57 | 0.87 | -- | -- | -- | -- | 1.74 | 1.16 | -- | -- | -- | 1.64 | 1.45 |
| July | 0.36 | 0.46 | -- | 0.19 | -- | 0.87 | 1.26 | 0.98 | -- | -- | -- | 0.82 | 1.02 |
| Aug | 0.13 | 0.18 | -- | 0.03 | -- | 0.08 | 0.17 | 0.26 | -- | 0.47 | -- | 0.27 | 0.17 |
| Sept | 0.02 | 0.13 | -- | 0.01 | -- | 0.1 | 0.11 | 0.09 | -- | 0.27 | -- | 0.05 | 0.03 |
| Total | 0.27 | 0.51 | -- | 0.09 | -- | 0.44 | 1.17 | 0.8 | -- | 0.42 | -- | 0.97 | 0.87 |

Table 5 - Comparison of Coho catch during Area 3 \& 4 Tidal Creel Surveys, 1995 to 2009

| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| May | 0 | 0 | -- | -- | -- | -- | 0 | 0 | -- | -- | -- | 0 | -- |
| June | 335 | 474 | -- | -- | -- | -- | 1,771 | 1,332 | -- | -- | -- | 3913 | 3686 |
| July | 402 | 3,565 | -- | 1,937 | -- | 568 | 4,736 | 9,798 | -- | -- | -- | 15982 | 17043 |
| Aug | 1,907 | 3,771 | -- | 1,500 | -- | 2,125 | 6,488 | 8,292 | -- | 15647 | -- | 13791 | 16459 |
| Sept | 1,115 | 1,417 | -- | 79 | -- | 790 | 1,006 | 1,010 | -- | 3215 | -- | 733 | 3136 |
| Total | 3,759 | 9,227 | -- | 3,516 | -- | 3,483 | 14,001 | 20,432 | -- | 18,862 | -- | 34,419 | 40,324 |

Table 6 - Comparison of Coho CPUE during Area 3 \& 4 Tidal Creel Surveys, 1995 to 2009

| Month | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\begin{gathered} \text { Year } \\ 2001 \\ \hline \end{gathered}$ | 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May | 0 | 0 | -- | -- | -- | -- | 0 | 0 | -- | -- | -- | 0 | -- |
| June | 0.21 | 0.19 | -- | -- | -- | -- | 0.47 | 0.38 | -- | -- | -- | 0.83 | 1.12 |
| July | 0.29 | 1.49 | -- | 1.48 | -- | 0.31 | 1.83 | 3.39 | -- | -- | -- | 4.26 | 4.11 |
| Aug | 0.99 | 2.69 | -- | 1.11 | -- | 1.6 | 3.59 | 4.5 | -- | 6.03 | -- | 5.45 | 5.43 |
| Sept | 1.29 | 2.9 | -- | 0.16 | -- | 0.83 | 1.86 | 1.49 | -- | 4.24 | -- | 1.86 | 3.75 |
| Total | 0.56 | 1.29 | -- | 1.11 | -- | 0.84 | 1.52 | 2.08 | -- | 5.63 | -- | 2.79 | 3.83 |

Table 7 - Comparison of Halibut catch during Area 3 \& 4 Tidal Creel Surveys, 1995 to 2009

| Month | Year |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003-05 | 2006 | 2007 | 2008 | 2009 |
| May | -- | -- | -- | -- | -- | -- | 281 | 467 | -- | -- | -- | 1435 | -- |
| June | -- | -- | -- | -- | -- | -- | 4872 | 3912 | -- | -- | -- | 8367 | 3029 |
| July | -- | -- | -- | -- | -- | 3963 | 3535 | 4716 | -- | -- | -- | 8507 | 4466 |
| Aug | -- | -- | -- | 1801 | -- | 2530 | 3085 | 3247 | -- | 8178 | -- | 5865 | 4142 |
| Sept | -- | -- | -- | 328 | -- | 1224 | 222 | 615 | -- | 1812 | -- | 774 | 1205 |
| Total | -- | -- | -- | 2129 | -- | 7717 | 11995 | 12957 | -- | 9990 | -- | 24948 | 12842 |

Table 8-2008 Fishing Effort by Week used for sampling stint and aerial survey allocation

| Week | Dates | Estimated <br> Effort | Percent | \# of stints |  | \# of flights |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | WD | WE | WD | WE |  |
| 61 | June 1-7 | 566 | $4.9 \%$ | 6 | 4 | 1 | 1 |
| 62 | June 8-14 | 723 | $6.3 \%$ | 7 | 5 | 0 | 1 |
| 63 | June 15-21 | 969 | $8.4 \%$ | 9 | 6 | 2 | 1 |
| 64 | June 22-28 | 1088 | $9.4 \%$ | 11 | 8 | 2 | 1 |
| 71 | June 29- July 5 | 1108 | $9.6 \%$ | 10 | 10 | 2 | 1 |
| 72 | July 6-12 | 890 | $7.7 \%$ | 15 | 7 | 1 | 1 |
| 73 | July 13-19 | 664 | $5.7 \%$ | 9 | 5 | 1 | 1 |
| 74 | July 20-26 | 756 | $6.5 \%$ | 9 | 6 | 1 | 1 |
| 75 | July 27-Aug 3 | 761 | $6.6 \%$ | 10 | 9 | 2 | 1 |
| 81 | August 4-9 | 926 | $8.0 \%$ | 8 | 5 | 1 | 1 |
| 82 | Aug 10-16 | 770 | $6.7 \%$ | 10 | 6 | 1 | 1 |
| 83 | Aug 17-23 | 816 | $7.1 \%$ | 9 | 6 | 1 | 0 |
| 84 | Aug 24-30 | 547 | $4.7 \%$ | 8 | 4 | 1 | 1 |
| 91 | Aug 31-Sept 7 | 530 | $4.6 \%$ | 6 | 7 | 2 | 1 |
| 92 | Sept 8-13 | 415 | $3.6 \%$ | 5 | 3 | 1 | 0 |
|  | TOTALS: | 11531 | $100 \%$ | 132 | 91 | 19 | 13 |

Table 9- Sampling and Aerial survey Allocation by Month

| Month | \% of sampling effort | \# of Flights |
| :---: | :---: | :---: |
| June | $28 \%$ | 10 |
| July | $34 \%$ | 9 |
| August | $30 \%$ | 9 |
| September | $8 \%$ | 4 |

Table 10 - Subarea Groups used for CPUE analysis

| Month | Subarea |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 A | 4B | 4 C | 4D | 4E | 4F | 4G | 4H | 3I | 3J | 3K | 4L |
| June | -- | -- | -- | -- | 4D, E, F | -- | -- | -- | -- | -- | 3I, J, K | 4G, H, L |
| July | -- | -- | -- | -- | 4D, E, F | -- | 4G, H, L | -- | -- | -- | -- | -- |
| August | -- | -- | -- | -- | 4D, E, F | -- | -- | -- | -- | -- | -- | -- |
| September | 4A, B, C | 4A, B, C | 4A, B, C | -- | 4D, E, F | 4D, E, F | 4G, H, L | 4G, H, L | 3I, J, K | 3I, J, K | 3I, J, K | 4G, H, L |

Table 11 - Estimated Chinook Catch Summary

| Month | Catch Type | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | $B$ | $C$ | D | $E$ | $F$ | G | H | I | $J$ | K | $L$ | Sub Total | STE |
| June | Retained | 0.4 | 430.0 | 71.7 | 298.1 | 28.4 | 516.1 | 163.2 | 204.7 | 966.5 | 1473.1 | 645.3 | 0.0 | 4797 | 417 |
|  | Released | 0 | 113.6 | 0 | 34.1 | 46.0 | 86.3 | 0 | 12.3 | 118.2 | 183 | 214.3 | 0 | 808 | 112 |
| July | Retained | 0 | 186.3 | 159.8 | 195.5 | 22.4 | 752.9 | 76.9 | 482.0 | 424.3 | 1202.9 | 331.8 | 37.8 | 3873 | 305 |
|  | Released | 0 | 36.52 | 5.687 | 39.13 | 3.076 | 69.87 | 26.08 | 20.45 | 33 | 280.2 | 190.8 | 0 | 705 | 153 |
| August | Retained | 1.7 | 7.7 | 14.5 | 57.8 | 2.8 | 180.6 | 6.9 | 78.9 | 23.0 | 79.8 | 31.6 | 17.4 | 503 | 73 |
|  | Released | 0 | 0 | 2.2 | 6.0 | 0.5 | 11.4 | 0.1 | 4.6 | 49.0 | 35.5 | 65.0 | 1 | 175 | 175 |
| September | Retained |  |  |  |  |  |  | 0.9 | 2.6 |  |  |  |  | 4 | 2 |
|  | Released | 0.0 | 0.0 | 0.0 | 2.3 | 1.0 | 1.1 | 2.6 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 15 | 10.0 |
| TOTAL | Retained | 2.1 | 624.0 | 245.9 | 551.4 | 53.5 | 1449.7 | 247.8 | 768.3 | 1413.8 | 2755.8 | 1008.7 | 55.1 | 9176 | 522 |
|  | Released | 0.0 | 150.2 | 7.9 | 81.5 | 50.7 | 168.6 | 28.8 | 45.3 | 200.2 | 498.8 | 470.1 | 1.0 | 1703 | 201 |

Table 12 - Estimated Coho catch summary

| Month | Catch Type | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | $J$ | $K$ | $L$ | Sub <br> Total | STE |
| June | Retained | 0.4 | 86.5 | 96.5 | 139.0 | 16.8 | 357.7 | 220.2 | 185.7 | 712.1 | 1454.2 | 416.6 | 0.0 | 3686 | 458 |
|  | Released | 0 | 2.0 | 0.0 | 16.6 | 0.6 | 0.0 | 6.3 | 0.0 | 75.1 | 192.9 | 35.0 | 0.0 | 328 | 72 |
| July | Retained | 0.8 | 464.2 | 1497.7 | 777.6 | 128.6 | 4589.8 | 292.9 | 2812.7 | 1019.2 | 3630.1 | 1294.6 | 535.0 | 17043 | 1106 |
|  | Released | 0 | 31.7 | 151.2 | 65.5 | 10.5 | 320.0 | 27.6 | 96.3 | 177.5 | 1664.1 | 317.3 | 0.0 | 2862 | 307 |
| August | Retained | 1.7 | 379.9 | 717.7 | 2260.0 | 74.3 | 4190.5 | 201.9 | 2075.9 | 2856.6 | 2228.9 | 1350.2 | 121.5 | 16459 | 1399 |
|  | Released | 0 | 0 | 8.9 | 65.1 | 3.8 | 86.7 | 1.8 | 29.3 | 111.0 | 35.0 | 1122.5 | 0.0 | 1464 | 87 |
| September | Retained | 0 | 97.3 | 108.6 | 126.1 | 57.8 | 98.1 | 81.5 | 282.6 | 1188.0 | 636.4 | 366.2 | 93.6 | 3136 | 483 |
|  | Released | 0 | 4.3 | 4.3 | 6.8 | 3.1 | 3.2 | 1.3 | 4.0 | 7.9 | 2.5 | 1.6 | 0.0 | 39 | 39 |
| TOTAL | Retained | 2.8 | 1027.9 | 2420.5 | 3302.7 | 277.5 | 9236.2 | 796.5 | 5356.8 | 5776.0 | 7949.7 | 3427.7 | 750.0 | 40324 | 1903 |
|  | Released | 0.0 | 38.0 | 164.3 | 154.0 | 18.0 | 409.9 | 37.0 | 129.6 | 371.5 | 1894.5 | 1476.3 | 0.0 | 4693 | 327 |

Table 13 - Estimated Other Species catch summary


Table 14 - Estimated Halibut catch summary

| Month | Catch <br> Type | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | $K$ | $L$ | Sub <br> Total | STE |
| June | Retained | 0.0 | 106.8 | 502.6 | 113.9 | 18.9 | 376.0 | 157.1 | 377.5 | 298.4 | 824.8 | 252.6 | 0.0 | 3029 | 360 |
|  | Released | 0.0 | 11.6 | 202.3 | 0.0 | 9.9 | 108.0 | 41.7 | 80.2 | 99.1 | 71.4 | 32.8 | 0.0 | 657 | 161 |
| July | Retained | 1.0 | 144.7 | 480.5 | 164.3 | 23.2 | 799.8 | 89.9 | 977.6 | 212.1 | 637.7 | 288.8 | 646.7 | 4466 | 356 |
|  | Released | 0.0 | 13.2 | 42.4 | 39.2 | 4.4 | 70.8 | 39.4 | 150.1 | 26.6 | 49.8 | 6.0 | 60.7 | 503 | 113 |
| August | Retained | 6.8 | 118.5 | 294.0 | 316.4 | 11.9 | 780.1 | 116.4 | 1045.2 | 523.6 | 541.9 | 187.3 | 199.6 | 4142 | 508 |
|  | Released | 0.0 | 0.0 | 8.9 | 54.4 | 2.2 | 51.6 | 17.6 | 178.2 | 0.0 | 0.0 | 4.0 | 95.4 | 412 | 165 |
| September | Retained | 0.0 | 98.2 | 99.8 | 29.9 | 12.8 | 66.7 | 96.0 | 329.2 | 205.8 | 105.4 | 61.1 | 100.0 | 1205 | 182 |
|  | Released | 0.0 | 0.0 | 0.0 | 3.3 | 0.6 | 3.8 | 15.6 | 47.7 | 7.9 | 2.5 | 1.6 | 0.0 | 83 | 32 |
| TOTAL | Retained | 7.8 | 468.1 | 1376.9 | 624.6 | 66.9 | 2022.6 | 459.3 | 2729.5 | 1239.9 | 2109.9 | 789.9 | 946.3 | 12842 | 740 |
|  | Released | 0.0 | 24.8 | 253.6 | 96.8 | 17.2 | 234.2 | 114.3 | 456.2 | 133.6 | 123.6 | 44.4 | 156.1 | 1655 | 258 |

Table 15 - Estimated Lingcod catch summary

| Month | Catch Type | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | $J$ | $K$ | $L$ | Sub Total | STE |
| June | Retained | 0.4 | 15.4 | 53.1 | 38.1 | 8.1 | 193.6 | 26.5 | 86.9 | 34.1 | 251.1 | 52.7 | 0.0 | 760 | 145 |
|  | Released | 0.0 | 2.0 | 11.9 | 0.0 | 1.9 | 57.6 | 0.0 | 0.0 | 2.0 | 7.0 | 0.0 | 0.0 | 82 | 56 |
| July | Retained | 0.3 | 7.7 | 61.6 | 31.4 | 4.9 | 187.8 | 14.8 | 175.7 | 71.7 | 235.0 | 62.0 | 166.1 | 1019 | 165 |
|  | Released | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 2.6 | 2.4 | 2.6 | 1.0 | 9.4 | 2.0 | 0.0 | 26 | 11 |
| August | Retained | 0.0 | 11.7 | 79.0 | 16.7 | 2.8 | 239.8 | 39.3 | 232.4 | 33.6 | 305.7 | 11.5 | 26.0 | 999 | 230 |
|  | Released | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 | 15 |
| September | Retained Released | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 7.6 | 19.0 | 62.8 | 46.6 | 37.5 | 20.4 | 12.9 | 208 0 | 73 0 |
| TOTAL | Retained | 0.6 | 34.8 | 193.7 | 86.1 | 17.2 | 628.9 | 99.6 | 557.8 | 186.0 | 829.2 | 146.6 | 205.0 | 2986 | 326 |
|  | Released | 0.0 | 2.0 | 17.6 |  | 2.3 | 74.5 | 2.4 | 2.6 | 3.0 | 16.4 | 2.0 | 0.0 | 123 | 59 |

Table 16 - Monthly Interviews and Stints per Landing Site and Sampling Efficiency

| LANDING SITE | June |  |  | July |  |  | August |  |  | September |  |  | TOTAL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# ints | $\begin{gathered} \# \\ \text { stints } \end{gathered}$ | $\begin{aligned} & \text { ints / } \\ & \text { stint } \end{aligned}$ | \# ints | $\begin{gathered} \# \\ \text { stints } \end{gathered}$ | ints / stint | \# ints | $\begin{gathered} \# \\ \text { stints } \end{gathered}$ | $\begin{aligned} & \text { ints / } \\ & \text { stint } \end{aligned}$ | \# ints | $\begin{gathered} \# \\ \text { stints } \end{gathered}$ | ints / stint | \# ints | $\begin{gathered} \# \\ \text { stints } \end{gathered}$ | ints / stint |
| Lachmach Forestry Site | 0 | 0 |  | 10 | 1 | 10.0 | 14 | 2 | 7.0 | 0 | 0 |  | 24 | 3 | 8.0 |
| Port Edward Boat Launch | 238 | 15 | 15.9 | 222 | 16 | 13.9 | 231 | 19 | 12.2 | 31 | 5 | 6.2 | 722 | 55 | 13.1 |
| Prince Rupert Yacht Club | 74 | 9 | 8.2 | 176 | 13 | 13.5 | 110 | 12 | 9.2 | 38 | 5 | 7.6 | 398 | 39 | 10.2 |
| Rushbrooke Boat Launch | 290 | 18 | 16.1 | 448 | 22 | 20.4 | 376 | 22 | 17.1 | 87 | 9 | 9.7 | 1201 | 71 | 16.9 |
| Wamplers Marine Services | 123 | 18 | 6.8 | 282 | 24 | 11.8 | 106 | 11 | 9.6 | 0 | 0 |  | 511 | 53 | 9.6 |
| TOTAL | 725 | 60 | 12.1 | 1138 | 76 | 15.0 | 837 | 66 | 12.7 | 156 | 19 | 8.2 | 2856 | 221 | 12.9 |
| \% of total interviews |  | 25\% |  |  | 40\% |  |  | 29\% |  |  | 5\% |  |  |  |  |
| Estimated (non-lodge) Effort |  | 2719 |  |  | 3316 |  |  | 2630 |  |  | 816 |  |  | 9481 |  |
| \% of total effort |  | 29\% |  |  | 35\% |  |  | 28\% |  |  | 9\% |  |  |  |  |
| \% effort sampled |  | 27\% |  |  | 34\% |  |  | 32\% |  |  | 19\% |  |  | 30\% |  |

Table 17 - Boat Trip Type (Guided/Unguided) by Landing Site

| LANDING SITE | Trip Type |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | guided | $\%$ | unguided | $\%$ |
| Lachmach Forestry Site | 0 |  | 24 | $100 \%$ |
| Port Edward Boat Launch | 30 | $4 \%$ | 692 | $96 \%$ |
| Prince Rupert Yacht Club | 194 | $49 \%$ | 204 | $51 \%$ |
| Rushbrooke Boat Launch | 411 | $34 \%$ | 790 | $66 \%$ |
| Wamplers Marine Services | 354 | $69 \%$ | 157 | $31 \%$ |
| TOTAL | 989 | $\mathbf{3 5 \%}$ | $\mathbf{1 8 6 7}$ | $65 \%$ |

Table 18 - Subarea Interviews by Month

| MONTH | 4A | 4B | 4C | 4D | 4E | 4F | 4G | 4H | 31 | 3J | 3K | 4L | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June | 71 | 166 | 94 | 83 | 7 | 128 | 24 | 52 | 59 | 61 | 3 | 10 | 758 |
| July | 96 | 80 | 194 | 97 | 5 | 284 | 22 | 202 | 52 | 68 | 21 | 39 | 1177 |
| August | 40 | 86 | 141 | 133 | 1 | 167 | 8 | 93 | 39 | 29 | 44 | 15 | 800 |
| September | 9 | 13 | 26 | 18 |  | 6 | 2 | 33 | 9 | 4 | 14 | 8 | 143 |
| Grand Total | 216 | 345 | 455 | 331 | 13 | 585 | 56 | 380 | 159 | 162 | 82 | 72 | 2878 |

Table 19 - Landing Site Interviews by Subarea

| SITE | 4A | 4B | 4C | 4D | 4E | 4F | 4G | 4H | 31 | 3J | 3K | 4L | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lachmach Forestry Site |  |  |  |  |  |  |  |  |  |  | 23 |  | 23 |
| Port Edward Boat Launch | 11 | 307 | 101 | 249 |  | 85 | 3 | 13 | 7 | 3 | 2 | 2 | 783 |
| Prince Rupert Yacht Club | 11 | 14 | 52 | 21 |  | 93 | 9 | 65 | 28 | 47 | 15 | 4 | 359 |
| Rushbrooke Boat Launch | 159 | 15 | 255 | 38 | 5 | 243 | 27 | 173 | 86 | 77 | 39 | 27 | 1144 |
| Wamplers Marine Services | 35 | 9 | 47 | 23 | 8 | 164 | 17 | 129 | 38 | 35 | 3 | 39 | 547 |
| Grand Total | 216 | 345 | 455 | 331 | 13 | 585 | 56 | 380 | 159 | 162 | 82 | 72 | 2856 |
| \% of total interviews | 7.6\% | 12\% | 16\% | 12\% | 0.5\% | 20.5\% | 2.0\% | 13\% | 5.6\% | 5.7\% | 2.9\% | 2.5\% |  |

Table 20 - Estimated Fishing Effort Summary

| Month | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | K | $L$ | Total | S.E. |
| June | 16.2 | 366.9 | 348.2 | 220.4 | 24.2 | 456.8 | 140.0 | 183.5 | 360.4 | 630.0 | 296.2 | 0.0 | 3043 | 240 |
| July | 20.5 | 290.9 | 558.0 | 250.5 | 22.5 | 668.6 | 61.7 | 505.2 | 232.4 | 567.2 | 394.0 | 232.7 | 3804 | 212 |
| August | 32.1 | 201.1 | 387.8 | 333.5 | 9.4 | 576.5 | 40.1 | 353.4 | 380.8 | 218.2 | 254.5 | 78.1 | 2865 | 249 |
| September | 0.0 | 103.9 | 111.7 | 36.2 | 16.3 | 35.5 | 28.1 | 95.1 | 196.1 | 107.0 | 61.4 | 25.8 | 817 | 78 |
| TOTAL: | 69 | 963 | 1406 | 841 | 72 | 1737 | 270 | 1137 | 1170 | 1522 | 1006 | 337 | 10529 | 413 |
| \% of Total: | 1\% | 9\% | 13\% | 8\% | 1\% | 16\% | 3\% | 11\% | 11\% | 14\% | 10\% | 3\% |  |  |

Table 21 - Lodge Log Book Data Summary

| Subject | Month |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | July | August | September |  |
| Boat Trips | 322 | 320 | 234 | 3 | 879 |
| Fish Kept |  |  |  |  |  |
| Chinook | 651 | 541 | 47 | 1 | 1240 |
| Halibut | 125 | 149 | 108 | 2 | 384 |
| Coho | 223 | 864 | 1190 | 14 | 2291 |
| Chum | 13 | 13 | 6 | 0 | 32 |
| Pink | 2 | 15 | 1 | 0 | 18 |
| Sockeye | 0 | 0 | 1 | 0 | 1 |
| Lingcod | 53 | 90 | 11 | 0 | 154 |
| Rockfish | 66 | 52 | 1 | 0 | 119 |
| Fish Released |  |  |  |  |  |
| Chinook | 322 | 279 | 68 | 0 | 669 |
| Halibut | 14 | 15 | 2 | 0 | 31 |
| Coho | 152 | 1730 | 1225 | 0 | 3107 |
| Chum | 4 | 40 | 10 | 0 | 54 |
| Pink | 7 | 396 | 175 | 6 | 584 |
| Sockeye | 0 | 0 | 0 | 0 | 0 |
| Lingcod | 9 | 4 | 0 | 0 | 13 |
| Rockfish | 13 | 7 | 7 | 0 | 27 |

Table 22 - Chinook salmon adipose fin clip observations

|  | June |  |  | July |  |  | August |  |  | Season |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \stackrel{0}{0} \\ & \stackrel{0}{\circ} \end{aligned}$ |  |  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \\ & \hline 0 \end{aligned}$ |  |  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \underset{0}{0} \\ & \hline 1 \end{aligned}$ |  |  | $$ |  |  |
|  | 643 | 5 | 0.8\% | 541 | 22 | 4.1\% | 47 | 0 | 0.0\% | 1231 | 27 | 2.2\% |
| Area 3 <br> - Creel | 126 | 4 | 3.2\% | 85 | 0 | 0.0\% | 12 | 0 | 0.0\% | 223 | 4 | 1.8\% |
| Area 3 <br> - Total | 769 | 9 | 1.2\% | 626 | 22 | 3.5\% | 59 | 0 | 0.0\% | 1454 | 31 | 2.1\% |
| Area 4 | 316 | 4 | 1.3\% | 326 | 14 | 4.3\% | 42 | 2 | 4.8\% | 684 | 20 | 2.9\% |
| TOTAL: | 1085 | 13 | 1.2\% | 952 | 36 | 3.8\% | 101 | 2 | 2.0\% | 2138 | 51 | 2.4\% |

Table 23 - Chinook coded wire tag recoveries

| Label | Date caught |  |  | Catch location | Tag Code | Brood | Hatchery | Agency |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 479525 | 18 | Jun | 2009 | Lucy Islands | 63-35-92 | 2005 | Dryden Pond | WDFW |
| 479593 | 4 | Jul | 2009 | Humpback Bay | 18-59-19 | 2005 | Gillard Pass | CDFO |
| 479514 | 12 | Jul | 2009 | Prince Rupert Harbour | 63-38-74 | 2006 | Keta Creek Hatchery | MUCK |
| 479596 | 7 | Jul | 2009 | Cutter Rock | 28-01-22 | 2005 | Kincolith River | CDFO |
| 479513 | 7 | Jul | 2009 | Zayas Island | 04-14-42 | 2005 | Neets Bay | SSRA |
| 479517 | 9 | Jul | 2009 | Dundas Island | 63-35-94 | 2005 | Similkameen Hatchery | WDFW |
| 479538 | 15 | Jun | 2009 | Unknown 3 | 09-46-27 | 2006 | South Santiam Hatchery | ODFW |
| 479522 | 15 | Jun | 2009 | Dundas Island | 21-07-45 | 2006 | Skagit River 03.0176 | WDFW |
| 520849 | 24 | Aug | 2009 | Rushton Island | 63-37-99 | 2006 | Stock = Wells Hatchery | WDFW |
| 482912 | 4 | Aug | 2009 | Rushton Island | 63-37-99 | 2006 | Stock = Wells Hatchery | WDFW |
| 479586 | 13 | Jul | 2009 | Stephens Island | 63-38-95 | 2006 | Stock = Wells Hatchery | WDFW |
| 479598 | 28 | Jun | 2009 | Humpback Bay | 18-48-31 | 2003 | Terrace | CDFO |
| 482916 | 14 | Jul | 2009 | Squaderee | 18-52-56 | 2005 | Terrace | CDFO |
| 479520 | 3 | Jul | 2009 | Dundas Island | 18-56-43 | 2004 | Terrace | CDFO |
| 479595 | 6 | Aug | 2009 | Squaderee | 63-35-95 | 2005 | Turtle Rock Hatchery | WDFW |
| 479531 | 7 | Jul | 2009 | Melville Island | 09-45-57 | 2006 | Williamette Hatchery | ODFW |
| 520851 | 15 | Jun | 2009 | Holiday Island | No Pin |  |  |  |
| 520850 | 15 | Jul | 2009 | Holiday Island | No Pin |  |  |  |
| 520848 | 30 | Jun | 2009 | Holiday Island | No Pin |  |  |  |
| 482925 | 6 | Aug | 2009 | Avery Island | No Pin |  |  |  |
| 479597 | 4 | Jul | 2009 | Chatham Sound | No Pin |  |  |  |
| 479594 | 7 | Jul | 2009 | Unknown 3 | No Pin |  |  |  |
| 479582 | 20 | Jun | 2009 | Unknown 3 | No Pin |  |  |  |
| 479568 | 11 | Jul | 2009 | Dundas Island | No Pin |  |  |  |
| 479567 | 17 | Jul | 2009 | Rushton Island | No Pin |  |  |  |
| 479565 | 1 | Aug | 2009 | Rushton Island | No Pin |  |  |  |
| 479533 | 15 | Jun | 2009 | Dundas Island | No Pin |  |  |  |
| 479526 | 7 | Jul | 2009 | Melville Island | No Pin |  |  |  |
| 479524 | 18 | Jun | 2009 | Zayas Island | No Pin |  |  |  |
| 479509 | 12 | Jul | 2009 | Prince Rupert Harbour | No Pin |  |  |  |
| 479508 | 12 | Jul | 2009 | Unknown 4 | No Pin |  |  |  |
| 479518 | 5 | Jul | 2009 | Dundas Island | No Pin |  |  |  |
| 482901 | 10 | Jul | 2009 | Unknown 3 | CFE |  |  |  |

Table 24 - Coho coded wire tag recoveries

| Label | Date caught |  | Catch location | Tag Code | Brood | Hatchery | Agency |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 479564 | 9 | Aug | 2009 | Squaderee | $04-16-64$ | 2006 | Nakat Inlet | SSRA |
| 479580 | 12 | Jul | 2009 | Prince Rupert <br> Harbour | $08-15-07$ | 2006 | Toboggan Creek | CDFO |
| 479539 | 15 | Jul | 2009 | Unknown 3 | $18-48-06$ | 2006 | Toboggan Creek | CDFO |
| 482924 | 16 | Aug | 2009 | Edye Passage | $18-51-51$ |  |  |  |
| 515281 | 16 | Jul | 2009 | Qlawdzeet | Anchorage | $18-60-12$ |  |  |
| 479519 | 3 | Jul | 2009 | Dundas Island | 63-37-99 | 2006 | Stock = Wells Hatchery | WDFW |
| 520847 | 15 | Aug | 2009 | Unknown 3 | No Pin |  |  |  |
| 479592 | 30 | Jun | 2009 | Holiday Island | No Pin |  |  |  |
| 479584 | 1 | Jul | 2009 | Stephens Island | No Pin |  |  |  |

Table 25 - Chinook salmon age data (Gilbert Rich method) by stock region for fish caught in Area 3

| Region name | $\mathbf{3}_{1}$ | $\mathbf{3}_{\mathbf{2}}$ | $\mathbf{4}_{\mathbf{1}}$ | $\mathbf{4}_{\mathbf{2}}$ | $\mathbf{5}_{\mathbf{1}}$ | $\mathbf{5}_{\mathbf{2}}$ | $\mathbf{5}_{\mathbf{3}}$ | $\mathbf{6}_{\mathbf{1}}$ | $\mathbf{6}_{\mathbf{2}}$ | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Unuk | 1 |  | 1 | 4 |  | 3 |  |  |  | 9 |
| Nass | 1 |  |  | 7 |  | 12 |  | 1 | 1 | 22 |
| Skeena |  |  | 2 | 13 |  | 21 |  |  | 4 | 40 |
| Northern Mainland | 1 |  | 5 | 2 |  | 2 |  |  |  | 10 |
| East Coast Vancouver Island | 3 |  | 2 |  | 1 |  |  |  |  | 6 |
| West Coast Vancouver Island | 3 |  | 1 | 1 | 1 | 1 |  |  | 7 |  |
| South Thompson | 1 |  | 1 | 1 | 2 | 2 |  |  | 7 |  |
| Puget Sound | 1 |  | 1 |  |  |  |  |  | 2 |  |
| Snake Fall | 1 |  | 4 | 1 | 1 | 1 |  |  | 8 |  |
| Upper Columbia Summer \& Fall | 2 | 2 | 6 | 1 |  |  |  | 1 | 5 | 122 |
| Total | 14 | 2 | 23 | 30 | 5 | 42 |  |  |  |  |

Table 26 - Chinook salmon age data (Gilbert Rich method) by stock region for fish caught in Area 4

| Region name | 31 | 32 | 41 | $4_{2}$ | 43 | 51 | 52 | 53 | $6_{2}$ | 63 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stikine |  |  |  | 3 |  |  | 3 |  |  |  | 6 |
| Nass |  |  |  | 1 |  |  | 6 |  |  |  | 7 |
| Skeena | 3 | 1 | 12 | 23 |  |  | 141 | 1 | 15 | 2 | 198 |
| Northern Mainland | 2 |  | 11 | 12 |  |  | 11 |  |  |  | 36 |
| Southern Mainland | 5 |  | 2 |  |  |  | 5 |  | 1 |  | 13 |
| East Coast Vancouver Island | 11 |  | 12 |  |  | 1 |  |  | 1 |  | 25 |
| West Coast Vancouver Island | 15 |  | 27 |  |  | 7 | 5 |  |  |  | 54 |
| Lower Fraser Spring |  |  |  |  |  |  | 1 |  |  |  | 1 |
| South Thompson | 14 |  | 18 | 3 |  | 3 | 3 |  |  |  | 41 |
| Puget Sound | 1 |  | 3 |  |  |  |  |  |  |  | 4 |
| Juan de Fuca |  |  | 1 |  |  |  |  |  |  |  | 1 |
| North \& Central Oregon | 2 | 1 | 1 |  |  |  |  |  |  |  | 4 |
| Lower Columbia | 2 |  | 3 |  |  |  |  |  |  |  | 5 |
| Snake Fall | 3 |  | 2 |  |  | 2 |  |  |  |  | 7 |
| Upper Willamette |  | 1 |  |  | 1 |  |  |  |  |  | 2 |
| Upper Columbia Summer \& Fall | 15 | 5 | 18 | 2 |  | 2 |  |  |  |  | 42 |
| Total | 73 | 8 | 110 | 44 | 1 | 15 | 175 | 1 | 17 | 2 | 446 |

Table 27 - Chinook stock composition observed in samples of sport catches in Areas 3 \& 4. Composition is presented as \% of the sample N. Standard deviations (SD) appear in brackets. Mixture analyses were performed with a 268 baseline sample.

|  | Area <br>  <br> Sample size | Area 3 |  | Area 4 |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Estimate |  |  |  |  |  |$\quad$ SD $\quad$ Estimate | SD |
| :---: |
| Region |

## Table 28 - Chinook CPUE Comparison

| Data | $\boldsymbol{A}$ | $\boldsymbol{B}$ | $\boldsymbol{C}$ | $\boldsymbol{D}$ | $\boldsymbol{E}$ | $\boldsymbol{F}$ | $\boldsymbol{G}$ | $\boldsymbol{H}$ | $\boldsymbol{I}$ | $\boldsymbol{J}$ | $\boldsymbol{K}$ | $\boldsymbol{L}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{n} / \mathrm{a}$ | 0.62 | 0.18 | 0.59 | 0.68 | 0.73 | 1.02 | 0.63 | 1.19 | 1.90 | 1.63 | 0.46 |
| Combined | $\mathrm{n} / \mathrm{a}$ | 0.19 | 1.38 | 1.26 | 1.30 | 1.35 | 0.67 | 0.61 | 2.56 | 2.33 | 2.01 |  |
| Guided | $\mathrm{n} / \mathrm{a}$ | 0.53 | 0.19 | 0.52 | 0.52 | 0.52 | 0.94 | 0.63 | 0.93 | 1.86 | 1.23 | 0.59 |
| Unguided |  |  |  |  |  |  |  |  |  |  |  |  |

Table 29 - Coho CPUE Comparison

| Data | $\boldsymbol{A}$ | $\boldsymbol{B}$ | $\boldsymbol{C}$ | $\boldsymbol{D}$ | $\boldsymbol{E}$ | $\boldsymbol{F}$ | $\boldsymbol{G}$ | $\boldsymbol{H}$ | $\boldsymbol{I}$ | $\boldsymbol{J}$ | $\boldsymbol{K}$ | $\boldsymbol{L}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{n} / \mathrm{a}$ | 1.21 | 1.46 | 3.40 | 4.18 | 4.52 | 3.66 | 3.71 | 4.72 | 5.20 | 6.79 | 1.81 |
| Combined | $\mathrm{n} / \mathrm{a}$ | 4.08 | 1.75 | 6.38 | 6.17 | 6.16 | 5.40 | 4.58 | 6.22 | 7.28 | 8.18 | 2.56 |
| Guided | $\mathrm{n} / \mathrm{a}$ | 1.10 | 1.51 | 3.12 | 3.57 | 3.71 | 3.29 | 2.80 | 3.72 | 3.48 | 5.29 | 1.02 |
| Unguided |  |  |  |  |  |  |  |  |  |  |  |  |

Table 30 - Halibut CPUE Comparison

| Data | $\boldsymbol{A}$ | $\boldsymbol{B}$ | $\boldsymbol{C}$ | $\boldsymbol{D}$ | $\boldsymbol{E}$ | $\boldsymbol{F}$ | $\boldsymbol{G}$ | $\boldsymbol{H}$ | $\boldsymbol{I}$ | $\boldsymbol{J}$ | $\boldsymbol{K}$ | $\boldsymbol{L}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\boldsymbol{\mathcal { L }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Combined | 0.24 | 0.53 | 0.95 | 0.92 | 1.15 | 1.20 | 2.24 | 2.59 | 1.13 | 1.16 | 1.54 | 2.91 |
| Guided | 0.82 | 1.26 | 1.65 | 1.54 | 2.66 | 2.64 | 3.01 | 3.10 | 1.82 | 1.41 | 2.10 | 3.42 |
| Unguided | 0.31 | 0.50 | 0.88 | 0.86 | 0.87 | 0.86 | 1.56 | 1.87 | 0.74 | 1.03 | 1.02 | 1.95 |

FIGURES

Figure 1 - Map of Study Area, showing Subareas, Landing Sites and Lodges


Figure 2 - Map of Study Area, showing Aerial survey Path


Figure 3 - Monthly Chinook catch by Subarea


Figure 4 - Monthly Coho catch by Subarea


Figure 5 - Monthly Halibut catch by Subarea


Figure 6 - Monthly Lingcod catch by Subarea


Figure 7 - Monthly Interviews per Landing Site


Figure 8 - Percentage of Guided/Unguided Interviews per Landing Site


Figure 9 - Subarea Interviews by Month


Figure 10 - Estimated Subarea non-lodge Boat Trips by Month


Figure 11 - Landing Site Interviews by Subarea


Figure 12 - Area 3 \& 4 Sport Fishing Activity Profile - June


Figure 13 - Area 3 \& 4 Sport Fishing Activity Profile - July


Figure 14 - Area 3 \& 4 Sport Fishing Activity Profile - August


Figure 15 - Area 3 \& 4 Sport Fishing Activity Profile - September


Figure 16 - Trailer Count versus Fishing Effort.


Figure 17 - Monthly Fishing Effort by Subarea (including Lodge-based effort)


Figure 18 - Length Frequency Distribution of sampled Chinook salmon ( $\mathrm{n}=692$ )


Figure 19 - Length Frequency Distribution of sampled Coho salmon ( $\mathbf{n = 9 0 4}$ )


Figure 20 - Length Frequency Distribution of sampled halibut ( $\mathrm{n}=1, \mathbf{0 2 7}$ )


Figure 21 - Area 3/4 Recreational Catch/Effort, 1995-2009


Figure 22 - Chinook CPUE comparison by Subarea


Figure 23 - Coho CPUE comparison by Subarea


Figure 24 - Halibut CPUE comparison by Subarea


## APPENDICES

Species and Limits tables for targeted species
Salmon

| Species | Min Size | Daily <br> Limit | Poss. <br> Limit | Annual Limit | Season <br> Open | Gear |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Chinook | 45 cm | 2 | 4 | 30 | All Year | Hook \& Line |
| Chum | 30 cm | 4 | 8 | N/A | All Year | Hook \& Line |
| Coho | 30 cm | 4 | 8 | N/A | All Year | Hook \& Line |
| Pink | 30 cm | 4 | 8 | N/A | All Year | Hook \& Line |
| Sockeye | 30 cm | 4 | 8 | N/A | All Year | Hook \& Line |

The combined daily limit for all species of Pacific salmon from tidal waters is 4. Coastwide daily limit for Chinook is 2 . Aggregate daily limit for all species of Pacific salmon from tidal and non-tidal waters combined is 4 . Barbless hooks must be used when fishing for salmon in all tidal waters of British Columbia.
http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/tidal-maree/a-s04-eng.htm
Other species

| Species | Area | Min. Size Limit | Daily Limit | Poss. Limit | Annual Limit | $\begin{gathered} \text { Season } \\ \text { Open } \end{gathered}$ | Gear | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Codfish | 1 to 29 | N/A | 8 | 16 | N/A | All Year | Hook \& line, spear | Species includes: Pacific cod, pollock and hake. |
| Greenling | 1 to 29 | N/A | 3 | 6 | N/A | All Year | Hook \& line, spear |  |
| Halibut | $\begin{aligned} & 1 \text { to } 29 \\ & \text { see } \\ & \text { exception } \\ & \text { below } \end{aligned}$ | N/A | 2 | 2 | N/A | Aug 22 <br> - Dec $\begin{gathered} 31, \\ 2009 \end{gathered}$ | Hook \& line, spear | FN0648 increased daily limit from 1 to 2, effective August 22, 2009 |
| Lingcod | 1 to 10 | None | 3 | 6 | N/A | All Year | Hook \& line, spear |  |
| Rockfish | 1 to 10 | N/A | 5 | 10 | N/A | All Year | Hook \& line, spear | Aggregate daily limit for all rockfish is 5 , no more than 3 may be Yelloweye. |
| Note: See next page for Area 4 Rockfish Conservation Areas. |  |  |  |  |  |  |  |  |
| Crab- <br> Dungeness | $\begin{aligned} & 1 \text { to } 10, \\ & 21 \text { to } 27 \end{aligned}$ | 165 mm | 6 | 12 | N/A | All Year | Maximum of two rings, dip nets, or traps or combination of these per fisher. Hand picking while diving is permitted. | It is prohibited to possess female crabs. |

## Area 4 Rockfish Conservation Areas



## 2009 Creel Survey Stint Allocation

| JUNE |  | Week 6-1 |  |  |  |  |  |  |  | Week 6-2 |  |  |  |  |  |  | Week 6-3 |  |  |  |  |  |  | Week 6-4 |  |  |  |  |  | Wk 7-1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | M | T | W | T | F | S | S |  | 4 |  | W | T | F | S | S | M | T | W | T | F | S | 5 | M | T | W | F | S | S | M | T |  |
| SITE | SHIFT | 1 | 2 | 3 | 4 | 5 | 6 |  | 7 | 8 | 91 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  | 6 | 72 | 29 | 30 |  |
| RUSHBROOKE | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WAMPLERS | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Yacht club | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PORT EDWARD | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OVERFLIGHT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| WAMPLERS | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| YACHT CLUB | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



| OVERFLIGHT ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |



| YACHT CLUB | A | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |




## 2009 Creel Survey Flight Schedule

| Day | Date | Notes | Day | \# of Flights |
| :---: | :---: | :---: | :---: | :---: |
| Tu | 02-Jun-09 |  | Monday | 3 |
| Sa | 06-Jun-09 |  | Tuesday | 4 |
| W | 10-Jun-09 | Cancelled - too windy | Wednesday | 5 |
| Su | 14-Jun-09 |  | Thursday | 3 |
| M | 15-Jun-09 |  | Friday | 4 |
| W | 17-Jun-09 |  | Saturday | 5 |
| Su | 21-Jun-09 |  | Sunday | 8 |
| W | 24-Jun-09 |  | Total: | 32 |
| F | 26-Jun-09 |  |  |  |
| Su | 28-Jun-09 | Changed to Sunday due to weather |  |  |
| Tu | 30-Jun-09 |  |  |  |
| W | 01-Jul-09 | Canada Day |  |  |
| Su | 05-Jul-09 |  |  |  |
| Tu | 07-Jul-09 |  |  |  |
| F | 10-Jut-09 | Cancelled - too foggy |  |  |
| Sa | 11-Jul-09 |  |  |  |
| Th | 16-Jul-09 | Changed to Thursday from Tuesday |  |  |
| Sa | 18-Jul-09 |  |  |  |
| Th | 23-Jul-09 |  |  |  |
| Sa | 25-Jul-09 |  |  |  |
| F | 31-Jul-09 |  |  |  |
| Su | 02-Aug-09 | Changed to Sunday due to weather |  |  |
| M | 03-Aug-09 | BC Day |  |  |
| W | 05-Aug-09 |  |  |  |
| Su | 09-Aug-09 |  |  |  |
| Tu | 11-Aug-09 |  |  |  |
| Sa | 15-Aug-09 |  |  |  |
| F | 21-Aug-09 |  |  |  |
| Sa | z2-Aus-09 | Cancelled - poor visibility |  |  |
| Th | 27-Aug-09 |  |  |  |
| Su | 30-Aug-09 |  |  |  |
| W | 02-Sep-09 | Changed to wed - foggy on Tuesday |  |  |
| Su | 06-Sep-09 |  |  |  |
| M | 07-Sep-09 | Labour Day |  |  |
| F | 11-Sep-09 | changed to fri - windy conditions |  |  |

Vessel Summary Log


| Species | Length (cm) | Weight | Weight Units (circle one) | Comments: |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | lbs. / kg |  |
|  |  |  | lbs. / kg |  |
|  |  |  | lbs. / kg |  |
|  |  |  | lbs. $/ \mathrm{kg}$ |  |
|  |  |  | lbs. / kg |  |
|  |  |  | lbs. / kg |  |
|  |  |  | lbs. / kg |  |
|  |  |  | lbs. / kg |  |



| Landing Site: | Interviewer Name: $\quad$Date: <br> Interviewer Code: <br> Shift Code: |
| :--- | :---: |


| Time Blocks |  |
| :---: | ---: |
| From - To | TB |
| Before 7:00 | 1 |
| $7: 00-7: 59$ | 2 |
| $8: 00-8: 59$ | 3 |
| $9: 00-9: 59$ | 4 |
| 10:00-10:59 | 5 |
| 11:00-11:59 | 6 |
| 12:00-12:59 | 7 |
| 13:00-13:59 | 8 |
| 14:00-14:59 | 9 |
| 15:00-15:59 | 10 |
| 16:00-16:59 | 11 |
| 17:00-17:59 | 12 |
| 18:00-18:59 | 13 |
| 19:00-19:59 | 14 |
| $20: 00-20: 59$ | 15 |
| $21: 00-21: 59$ | 16 |

${ }^{*}$ Fill in using numbers only.

| Time <br> Black | Fis hing <br> Conditions | Boats <br> Missed | Not <br> Fishina | Fishing |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Totals: |  |  |  |  |

Comments:
Trailer Count:

[^0]
## 2009 AREA 3/4 CREEL SURVEY AERIAL SURVEY VESSEL ENUMERATION FORM

DATE: $\qquad$ SURVEYOR:

FLIGHT\#: $\qquad$
$\qquad$

Note: only survey shaded subareas when conditions permit

| Sub | RIGHT FRONT COUNT |  |  |  | TOTAL COUNT |  |  |  | FLIGHT TIME |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area | SPORT (Fishing) | SPORT (Moving) | COMM. (Fishing) | COMM. (Moving) | $\begin{gathered} \hline \mathrm{S} \\ \text { (F) } \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{s} \\ (M) \end{gathered}$ | $\begin{gathered} \hline \mathrm{C} \\ \text { (F) } \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{C} \\ (M) \end{gathered}$ | START | FINISH | TOTAL |
| A |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  |  |  |  |  |  |  |  |  |  |
| G |  |  |  |  |  |  |  |  |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |
| G |  |  |  |  |  |  |  |  |  |  |  |
| J |  |  |  |  |  |  |  |  |  |  |  |
| I |  |  |  |  |  |  |  |  |  |  |  |
| K |  |  |  |  |  |  |  |  |  |  |  |
| I |  |  |  |  |  |  |  |  |  |  |  |
| H |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  |  |  |  |  |  |  |  |

WEATHER / SEA STATE / COMMENTS:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
SIGNATURE: $\qquad$

## Estimated Fishing Effort (Boat Trips)

| Month | $\frac{0}{\frac{2}{7}}$ | Data | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | $J$ | K | $L$ | Sub <br> Total |
| June | 1 | Lodge Reported | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.0 | 80.0 | 98.0 | 0.0 | 235 |
|  |  | Creel Estimated | 5.1 | 185.0 | 241.2 | 184.9 | 20.5 | 338.8 | 118.0 | 154.1 | 198.7 | 379.7 | 163.6 | 0.0 | 1990 |
|  |  | S.E.(standard error) | 4.5 | 51.5 | 57.8 | 78.6 | 9.0 | 92.6 | 41.9 | 78.4 | 63.9 | 85.7 | 111.6 | 0.0 | 229 |
|  |  | Total - Midweek | 5.1 | 185.0 | 241.2 | 184.9 | 20.5 | 338.8 | 118.0 | 154.1 | 255.7 | 459.7 | 261.6 | 0.0 | 2225 |
|  | 2 | Lodge Reported | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.0 | 38.0 | 31.0 | 0.0 | 87 |
|  |  | Creel Estimated | 11.0 | 181.9 | 106.9 | 35.5 | 3.6 | 117.9 | 22.0 | 29.4 | 86.7 | 132.3 | 3.6 | 0.0 | 731 |
|  |  | S.E. | 8.3 | 29.9 | 41.7 | 13.6 | 3.1 | 18.1 | 6.8 | 7.7 | 25.5 | 30.2 | 2.0 | 0.0 | 70 |
|  |  | Total - Midweek | 11.0 | 181.9 | 106.9 | 35.5 | 3.6 | 117.9 | 22.0 | 29.4 | 104.7 | 170.3 | 34.6 | 0.0 | 818 |
|  |  | Total - June | 16.2 | 366.9 | 348.2 | 220.4 | 24.2 | 456.8 | 140.0 | 183.5 | 360.4 | 630.0 | 296.2 | 0.0 | 3043 |
|  |  | S.E. - June | 9.5 | 59.6 | 71.3 | 79.7 | 9.5 | 94.4 | 42.4 | 78.8 | 68.8 | 90.9 | 111.6 | 0.0 | 240 |
| July | 1 | Lodge Reported | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.0 | 118.0 | 69.0 | 0.0 | 223 |
|  |  | Creel Estimated | 15.8 | 166.8 | 354.1 | 144.0 | 10.7 | 467.1 | 40.4 | 317.0 | 100.4 | 251.4 | 254.0 | 161.5 | $2283$ |
|  |  | S.E. | 8.4 | 63.8 | 55.9 | 45.9 | 10.2 | 67.1 | 22.4 | 90.7 | 58.5 | 91.2 | 62.3 | 31.4 | 198 |
|  |  | Total - Midweek | 15.8 | 166.8 | 354.1 | 144.0 | 10.7 | 467.1 | 40.4 | 317.0 | 136.4 | 369.4 | 323.0 | 161.5 | 2506 |
|  | 2 | Lodge Reported | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 46.0 | 32.0 | 0.0 | 97 |
|  |  | Creel Estimated | 4.7 | 124.1 | 203.9 | 106.5 | 11.8 | 201.5 | 21.3 | 188.1 | 77.0 | 151.8 | 39.0 | 71.1 | 1201 |
|  |  | S.E. | 3.3 | 22.4 | 24.4 | 26.7 | 5.9 | 30.4 | 13.1 | 15.9 | 14.0 | 27.9 | 18.0 | 33.3 | 75 |
|  |  | Total - Midweek | 4.7 | 124.1 | 203.9 | 106.5 | 11.8 | 201.5 | 21.3 | 188.1 | 96.0 | 197.8 | 71.0 | 71.1 | 1298 |
|  |  | Total - July | 20.5 | 290.9 | 558.0 | 250.5 | 22.5 | 668.6 | 61.7 | 505.2 | 232.4 | 567.2 | 394.0 | 232.7 | 3804 |
|  |  | S.E. - July | 9.1 | 67.6 | 61.0 | 53.1 | 11.8 | 73.7 | 26.0 | 92.1 | 60.1 | 95.4 | 64.9 | 45.8 | 212 |
| August | 1 | Lodge Reported | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.0 | 6.0 | 124.0 | 0.0 | 150 |
|  |  | Creel Estimated | 32.1 | 109.9 | 223.8 | 218.4 | 0.0 | 390.8 | 7.8 | 202.5 | 172.7 | 118.4 | 10.2 | 78.1 | 1565 |
|  |  | S.E. | 29.4 | 41.4 | 95.5 | 52.0 | 0.0 | 156.2 | 7.2 | 99.5 | 14.7 | 55.0 | 7.1 | 45.9 | 233 |
|  |  | Total - Midweek | 32.1 | 109.9 | 223.8 | 218.4 | 0.0 | 390.8 | 7.8 | 202.5 | 192.7 | 124.4 | 134.2 | 78.1 | 1715 |
|  | 2 | Lodge Reported | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.0 | 6.0 | 67.0 | 0.0 | 84 |

Appendix D1 - Detailed Fishing Effort Summary

|  |  | Creel Estimated | 0.0 | 91.2 | 164.0 | 115.1 | 9.4 | 185.7 | 32.3 | 150.9 | 177.2 | 87.8 | 53.4 | 0.0 | 1067 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | S.E.(standard error) | 0.0 | 16.4 | 53.1 | 23.0 | 7.3 | 31.9 | 25.0 | 23.5 | 18.0 | 14.4 | 37.5 | 0.0 | 88 |
|  |  | Total - Midweek | 0.0 | 91.2 | 164.0 | 115.1 | 9.4 | 185.7 | 32.3 | 150.9 | 188.2 | 93.8 | 120.4 | 0.0 | 1151 |
|  |  | Total - August | 32.1 | 201.1 | 387.8 | 333.5 | 9.4 | 576.5 | 40.1 | 353.4 | 380.8 | 218.2 | 254.5 | 78.1 | 2865 |
|  |  | S.E. - August | 29.4 | 44.5 | 109.3 | 56.8 | 7.3 | 159.5 | 26.0 | 102.2 | 23.2 | 56.8 | 38.1 | 45.9 | 249 |
| September | 1 | Creel Estimate | 0.0 | 24.1 | 31.9 | 24.8 | 12.5 | 12.7 | 12.9 | 48.7 | 61.6 | 65.2 | 34.5 | 25.8 | 355 |
|  |  | S.E. | 0.0 | 11.2 | 6.0 | 23.0 | 11.5 | 11.7 | 12.0 | 19.2 | 19.1 | 48.4 | 19.2 | 0.0 | 67 |
|  |  | Total - Midweek | 0.0 | 24.1 | 31.9 | 24.8 | 12.5 | 12.7 | 12.9 | 48.7 | 61.6 | 65.2 | 34.5 | 25.8 | 355 |
|  | 2 | Creel Estimate | 0.0 | 79.9 | 79.8 | 11.4 | 3.8 | 22.8 | 15.2 | 46.4 | 134.5 | 41.8 | 26.9 | 0.0 | 462 |
|  |  | S.E. | 0.0 | 3.3 | 9.9 | 3.3 | 3.3 | 13.2 | 6.6 | 13.4 | 3.3 | 29.6 | 10.0 | 0.0 | 39 |
|  |  | Total - Weekend | 0.0 | 79.9 | 79.8 | 11.4 | 3.8 | 22.8 | 15.2 | 46.4 | 134.5 | 41.8 | 26.9 | 0.0 | 462 |
|  |  | Total - September | 0.0 | 103.9 | 111.7 | 36.2 | 16.3 | 35.5 | 28.1 | 95.1 | 196.1 | 107.0 | 61.4 | 25.8 | 817 |
|  |  | S.E. - September | 0.0 | 11.7 | 11.5 | 23.2 | 12.0 | 17.6 | 13.6 | 23.4 | 19.4 | 56.7 | 21.7 | 0.0 | 78 |
|  |  | Total - Full season | 69 | 963 | 1406 | 841 | 72 | 1737 | 270 | 1137 | 1170 | 1522 | 1006 | 337 | 10529 |
|  |  | S.E. - Full season | 32 | 101 | 144 | 114 | 21 | 200 | 58 | 160 | 96 | 154 | 136 | 65 | 413 |

Chinook Retained

| Month | $\frac{0}{2}$ | Data | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | $K$ | L | Sub Total |
| June | 1 | estimate | 0.0 | 195.3 | 47.2 | 273.6 | 24.6 | 369.2 | 97.2 | 180.5 | 663.3 | 1020.9 | 573.6 | 0.0 | 3445 |
|  |  | ste | 0.0 | 58.5 | 17.3 | 99.9 | 8.4 | 106.0 | 59.3 | 89.4 | 154.7 | 222.9 | 205.3 | 0.0 | 390 |
|  | 2 | estimate | 0.4 | 234.7 | 24.5 | 24.4 | 3.8 | 146.9 | 66.0 | 24.2 | 303.3 | 452.2 | 71.7 | 0.0 | 1352 |
|  |  | ste | 0.5 | 49.2 | 13.4 | 10.9 | 2.5 | 30.1 | 32.2 | 10.8 | 87.4 | 94.8 | 4.6 | 0.0 | 146 |
|  |  | Total - June | 0.4 | 430.0 | 71.7 | 298.1 | 28.4 | 516.1 | 163.2 | 204.7 | 966.5 | 1473.1 | 645.3 | 0.0 | 4797 |
|  |  | ste - June | 0.5 | 76.4 | 21.9 | 100.5 | 8.8 | 110.2 | 67.5 | 90.1 | 177.7 | 242.3 | 205.4 | 0.0 | 417 |
| July | 1 | estimate | 0.0 | 85.9 | 90.1 | 86.4 | 11.2 | 566.8 | 34.2 | 286.4 | 260.0 | 824.5 | 239.3 | 32.3 | 2517 |
|  |  | ste | 0.0 | 55.6 | 27.8 | 30.4 | 7.6 | 90.7 | 18.1 | 73.5 | 130.9 | 188.4 | 82.6 | 17.7 | 280 |
|  | 2 | estimate | 0.0 | 100.4 | 69.7 | 109.1 | 11.2 | 186.1 | 42.7 | 195.7 | 164.3 | 378.4 | 92.6 | 5.5 | 1356 |
|  |  | ste | 0.0 | 28.5 | 19.2 | 35.9 | 4.3 | 38.1 | 27.6 | 41.3 | 37.3 | 75.1 | 34.0 | 6.6 | 121 |
|  |  | Total - July | 0.0 | 186.3 | 159.8 | 195.5 | 22.4 | 752.9 | 76.9 | 482.0 | 424.3 | 1202.9 | 331.8 | 37.8 | 3873 |
|  |  | ste - July | 0.0 | 62.5 | 33.8 | 47.1 | 8.8 | 98.4 | 33.0 | 84.3 | 136.1 | 202.8 | 89.3 | 18.9 | 305 |
| August | 1 | estimate | 1.7 | 5.6 | 3.4 | 32.0 | 0.0 | 114.9 | 1.8 | 50.6 | 20.0 | 49.4 | 11.6 | 17.4 | 308 |
|  |  | ste | 2.8 | 4.7 | 4.0 | 13.9 | 0.0 | 40.9 | 1.6 | 32.5 | 10.5 | 29.5 | 0.9 | 22.6 | 67 |
|  | 2 | estimate | 0.0 | 2.0 | 11.1 | 25.8 | 2.8 | 65.7 | 5.1 | 28.3 | 3.0 | 30.5 | 19.9 | 0.0 | 194 |
|  |  | ste | 0.0 | 2.1 | 7.0 | 9.3 | 1.7 | 16.6 | 4.3 | 14.8 | 0.0 | 11.3 | 5.2 | 0.0 | 28 |
|  |  | Total - August | $1.7$ | $7.7$ | $14.5$ | $57.8$ | $2.8$ | $180.6$ | $6.9$ | $78.9$ | $23.0$ | $79.8$ | $31.6$ | $17.4$ | 503 |
|  |  | ste - August | $2.8$ | $5.2$ | 8.1 | 16.8 | 1.7 | 44.2 | 4.6 | 35.7 | 10.5 | 31.6 | 5.2 | 22.6 | 73 |
| September | 2 | estimate |  |  |  |  |  |  | 0.87 | 2.65 |  |  |  |  | 4 |
|  |  | ste |  |  |  |  |  |  | 0.76 | 2.07 |  |  |  |  | 2 |
|  |  | Total - 2009 | 2 | 624 | 246 | 551 | 54 | 1450 | 247 | 766 | 1414 | 2756 | 1009 | 55 | 9173 |
|  |  | ste - 2009 | 3 | 99 | 41 | 112 | 13 | 154 | 75 | 128 | 224 | 318 | 224 | 29 | 522 |

Chinook Released

|  | $\begin{aligned} & 0 \\ & \stackrel{0}{7} \\ & \underset{\sim}{0} \end{aligned}$ | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Data | A | $B$ | C | D | $E$ | $F$ | G | H | I | $J$ | $K$ | $L$ | Sub <br> Total |
| June | 1 | estimate | 0.0 | 74.5 | 0.0 | 30.6 | 34.0 | 70.8 | 0.0 | 8.8 | 83.3 | 145.8 | 143.3 | 0.0 | 591 |
|  |  | ste | 0.0 | 35.9 | 0.0 | 28.2 | 24.9 | 50.3 | 0.0 | 10.8 | 33.5 | 58.0 | 31.4 | 0.0 | 104 |
|  | 2 | estimate | 0.0 | 39.1 | 0.0 | 3.6 | 12.0 | 15.5 | 0.0 | 3.5 | 34.9 | 37.2 | 71.0 | 0.0 | 217 |
|  |  | ste | 0.0 | 21.8 | 0.0 | 2.9 | 8.9 | 9.7 | 0.0 | 3.7 | 23.7 | 22.2 | 0.8 | 0.0 | 42 |
|  |  | Total - June | 0.0 | 113.6 | 0.0 | 34.1 | 46.0 | 86.3 | 0.0 | 12.3 | 118.2 | 183.0 | 214.3 | 0.0 | 808 |
|  |  | ste - June | 0.0 | 42.0 | 0.0 | 28.4 | 26.4 | 51.2 | 0.0 | 11.5 | 41.0 | 62.1 | 31.4 | 0.0 | 112 |
| July | 1 | estimateste | 0.0 | 10.1 | 3.1 | 20.9 | 0.9 | 31.5 | 0.0 | 20.5 | 19.0 | 182.9 | 161.8 | 0.0 | 451 |
|  |  |  | 0.0 | 11.5 | 3.2 | 13.7 | 0.9 | 21.2 | 0.0 | 17.9 | 0.0 | 81.2 | 115.2 | 0.0 | 145 |
|  | 2 | estimate | 0.0 | 26.4 | 2.6 | 18.2 | 2.2 | 38.4 | 26.1 | 0.0 | 14.0 | 97.3 | 29.0 | 0.0 | 254 |
|  |  | ste | 0.0 | 12.3 | 2.6 | 16.9 | 1.4 | 20.5 | 31.6 | 0.0 | 0.0 | 26.1 | 0.0 | 0.0 | 50 |
|  |  | Total - July | 0.0 | 36.5 | 5.7 | 39.1 | 3.1 | 69.9 | 26.1 | 20.5 | 33.0 | 280.2 | 190.8 | 0.0 | 705 |
|  |  | ste - July | 0.0 | 16.8 | 4.1 | 21.7 | 1.7 | 29.5 | 31.6 | 17.9 | 0.0 | 85.3 | 115.2 | 0.0 | 153 |
| August | 1 | estimate ste | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 4.6 | 49.0 | 35.5 | 38.0 | 0.0 | 127 |
|  |  |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 5.6 | 45.4 | 42.5 | 0.0 | 0.0 | 62 |
|  | 2 | estimate | 0.0 | 0.0 | 2.2 | 6.0 | 0.5 | 11.4 | 0.0 | 0.0 | 0.0 | 0.0 | 27.0 | 1.0 | 48 |
|  |  | ste | 0.0 | 0.0 | 2.4 | 6.2 | 0.6 | 11.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 14 |
|  |  | Total - August | 0.0 | 0.0 | 2.2 | 6.0 | 0.5 | 11.4 | 0.1 | 4.6 | 49.0 | 35.5 | 65.0 | 1.0 | 175 |
|  |  | ste - August | 0.0 | 0.0 | 2.4 | 6.2 | 0.6 | 11.8 | 0.2 | 5.6 | 45.4 | 42.5 | 2.8 | 0.0 | 64 |
| September | 1 | estimate |  |  |  | 2.25 | 1.04 | 1.05 |  |  |  |  |  |  | 4 |
|  |  | ste |  |  |  | 3.71 | 1.71 | 1.74 |  |  |  |  |  |  | 4 |
|  | 2 | estimate |  |  |  |  |  |  | 2.61 | 7.95 |  |  |  |  | 11 |
|  |  | ste |  |  |  |  |  |  | 3.05 | 8.59 |  |  |  |  | 9 |
|  |  | Total - September | 0.0 | 0.0 | 0.0 | 2.3 | 1.0 | 1.1 | 2.6 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
|  |  | ste-September | 0.0 | 0.0 | 0.0 | 3.7 | 1.7 | 1.7 | 3.1 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 10 |
|  |  | Total - 2009 | 0 | 150 | 8 | 81 | 51 | 169 | 29 | 45 | 200 | 499 | 470 | 1 | 1703 |
|  |  | ste - 2009 | 0 | 45 | 5 | 36 | 27 | 60 | 32 | 24 | 61 | 114 | 119 | 0 | 201 |

## Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries

## Chinook - CPUE

Subarea

|  | Month |  | 31 | 3J | 3K | 4 A | 4B | $4 C$ | 4D | 4E | 4F | 4G | 4H | 4L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { d } \\ & \text { d } \\ & \text { o } \\ & \text { O } \\ & 0 \end{aligned}$ | June | 1 | 2.72 | 2.28 | 2.49 |  | 1.06 | 0.20 | 1.48 | 1.20 | 1.09 | 0.82 | 1.17 | 0.93 |
|  |  | 2 | 2.85 | 2.76 | 2.69 | 0.03 | 1.29 | 0.23 | 0.69 | 1.04 | 1.25 | 3.00 | 0.82 | 1.30 |
|  | July | 1 | 2.19 | 2.40 | 0.64 |  | 0.52 | 0.25 | 0.60 | 1.05 | 1.21 | 0.85 | 0.90 | 0.20 |
|  |  | 2 | 1.64 | 1.72 | 1.14 |  | 0.81 | 0.34 | 1.02 | 0.95 | 0.92 | 2.00 | 1.04 | 0.08 |
|  | August | 1 | 0.09 | 0.40 | 0.06 | 0.05 | 0.05 | 0.02 | 0.15 | 0.23 | 0.29 | 0.22 | 0.25 | 0.22 |
|  |  | 2 |  | 0.21 | 0.11 |  | 0.02 | 0.07 | 0.22 | 0.29 | 0.35 | 0.16 | 0.19 |  |
|  | September | 1 |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 |  |  |  |
|  |  | 2 |  |  |  |  |  |  |  |  |  | 0.06 | 0.06 | 0.06 |


|  | June | 1 | 3.05 | 2.64 | 2.88 | 2.89 | 0.11 | 2.50 | 1.78 | 2.00 | 0.88 | 1.30 | 1.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | 2.82 | 3.20 | 3.04 | 4.20 | 0.13 | 2.00 | 1.68 | 1.65 | 3.50 | 0.86 | 1.43 |
| $\begin{aligned} & \text { d } \\ & \text { d } \\ & \text { O } \\ & 0 \end{aligned}$ | July | 1 | 2.53 | 2.97 | 2.00 | 3.25 | 0.33 | 1.00 | 1.50 | 1.56 | 0.71 | 1.03 | 0.29 |
|  |  | 2 | 3.10 | 2.71 | 2.33 | 3.00 |  | 2.33 | 1.77 | 1.72 | 4.00 | 1.14 |  |
|  | August | 1 | 0.15 | 0.33 |  |  |  | 0.11 | 0.38 | 0.44 | 0.16 | 0.14 | 0.29 |
|  |  | 2 |  | 0.23 |  | 0.50 |  | 0.33 | 0.42 | 0.45 | 0.11 | 0.13 |  |
|  | September | 2 |  |  |  |  |  |  |  |  | 0.06 | 0.06 | 0.06 |


|  | June | 1 | 2.17 | 2.05 | 2.09 |  | 0.79 | 0.22 | 1.34 | 0.99 | 0.67 | 0.78 | 0.92 | 0.82 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | 2.88 | 2.10 | 2.38 | 0.05 | 1.12 | 0.25 | 0.60 | 0.88 | 1.09 | 2.33 | 0.80 | 1.15 |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 5 \end{aligned}$ | July | 1 | 1.73 | 1.50 | 0.54 |  | 0.14 | 0.25 | 0.57 | 0.79 | 0.92 | 1.00 | 0.75 |  |
|  |  | 2 | 0.67 | 1.09 | 0.25 |  | 0.55 | 0.35 | 0.80 | 0.65 | 0.58 | 1.75 | 0.91 | 0.33 |
|  | August | 1 |  | 0.50 | 0.17 | 0.11 | 0.05 | 0.02 | 0.15 | 0.14 | 0.13 | 0.40 | 0.67 |  |
|  |  | 2 |  | 0.17 | 0.14 |  |  | 0.07 | 0.20 | 0.21 | 0.22 | 0.26 | 0.31 |  |
|  | September | 1 |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 |  |  |  |
|  |  | 2 |  |  |  |  |  |  |  |  |  | 0.05 | 0.05 | 0.05 |

Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries

## Coho Retained

| Month | $\stackrel{\otimes}{\stackrel{\Sigma}{7}}$ | Data | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | K | $L$ | Sub <br> Total |
| June | 1 | estimate | 0.0 | 59.1 | 78.7 | 114.6 | 14.0 | 263.0 | 201.4 | 180.5 | 586.5 | 867.5 | 403.7 | 0.0 | 2769 |
|  |  | ste | 0.0 | 30.4 | 42.3 | 55.4 | 5.4 | 88.5 | 130.3 | 111.6 | 208.5 | 228.2 | 215.9 | 0.0 | 1116 |
|  | 2 | estimate | 0.4 | 27.4 | 17.8 | 24.4 | 2.8 | 94.7 | 18.9 | 5.2 | 125.6 | 586.7 | 12.9 | 0.0 | 917 |
|  |  | ste | 0.5 | 11.6 | 11.3 | 20.4 | 2.1 | 44.8 | 12.1 | 4.1 | 43.5 | 141.7 | 4.3 | 0.0 | 296 |
|  |  | Total - June | 0.4 | 86.5 | 96.5 | 139.0 | 16.8 | 357.7 | 220.2 | 185.7 | 712.1 | 1454.2 | 416.6 | 0.0 | 3686 |
|  |  | ste - June | 0.5 | 32.6 | 43.7 | 59.0 | 5.8 | 99.1 | 130.9 | 111.7 | 213.0 | 268.6 | 216.0 | 0.0 | 458 |
| July | 1 | estimate | 0.6 | 308.3 | 981.6 | 432.0 | 65.4 | 3348.2 | 155.4 | 1892.0 | 619.6 | 2305.7 | 1070.2 | 277.8 | 11457 |
|  |  | ste | 0.7 | 144.3 | 179.8 | 127.1 | 44.6 | 428.7 | 86.3 | 448.1 | 276.1 | 588.6 | 306.4 | 155.5 | 2786 |
|  | 2 | estimate | 0.2 | 155.8 | 516.1 | 345.6 | 63.2 | 1241.6 | 137.5 | 920.7 | 399.6 | 1324.4 | 224.4 | 257.1 | 5586 |
|  |  | ste | 0.3 | 55.6 | 90.6 | 90.2 | 23.1 | 175.8 | 88.9 | 141.0 | 87.9 | 294.1 | 97.4 | 189.0 | 1334 |
|  |  | Total - July | 0.8 | 464.2 | 1497.7 | 777.6 | 128.6 | 4589.8 | 292.9 | 2812.7 | 1019.2 | 3630.1 | 1294.6 | 535.0 | 17043 |
|  |  | ste - July | 0.7 | 154.7 | 201.3 | 155.9 | 50.2 | 463.3 | 123.9 | 469.8 | 289.7 | 658.0 | 321.5 | 244.7 | 1106 |
| August | 1 | estimate | 1.7 | 155.0 | 434.0 | 1438.6 | 0.0 | 2605.3 | 43.9 | 1311.9 | 1727.6 | 1358.9 | 774.9 | 121.5 | 9973 |
|  |  | ste | 2.8 | 67.3 | 184.5 | 307.6 | 0.0 | 829.8 | 32.0 | 548.8 | 353.2 | 619.1 | 56.6 | 158.0 | 3160 |
|  | 2 | estimate | 0.0 | 224.8 | 283.6 | 821.4 | 74.3 | 1585.2 | 158.0 | 763.9 | 1129.0 | 870.0 | 575.4 | 0.0 | 6486 |
|  |  | ste | 0.0 | 74.4 | 93.0 | 168.8 | 45.0 | 276.1 | 110.5 | 169.0 | 261.1 | 207.1 | 153.1 | 0.0 | 1558 |
|  |  | Total - August | 1.7 | 379.9 | $717.7$ | 2260.0 | $74.3$ | $4190.5$ | $201.9$ | $2075.9$ | $2856.6$ | $2228.9$ | $1350.2$ | $121.5$ | 16459 |
|  |  | ste - August | 2.8 | 100.4 | 206.6 | 350.9 | $45.0$ | $874.6$ | $115.0$ | $574.2$ | $439.3$ | $652.8$ | $163.3$ | $158.0$ | 1399 |
| September | 1 | estimate | 0.0 | 34.7 | 46.1 | 108.2 | 49.9 | 50.6 | 46.8 | 176.6 | 357.5 | 378.4 | 199.8 | 93.6 | 1542 |
|  |  | ste | 0.0 | 26.4 | 29.6 | 93.4 | 43.3 | 44.0 | 59.3 | 138.9 | 144.4 | 304.0 | 125.0 | 59.3 | 1067 |
|  | 2 | estimate | 0.0 | 62.6 | 62.5 | 17.9 | 7.9 | 47.5 | 34.7 | 106.0 | 830.5 | 258.1 | 166.3 | 0.0 | 1594 |
|  |  | ste | 0.0 | 23.3 | 24.0 | 11.6 | 7.1 | 32.2 | 17.9 | 42.7 | 137.1 | 190.0 | 68.3 | 0.0 | 554 |
|  |  | Total - September | 0.0 | 97.3 | 108.6 | 126.1 | 57.8 | 98.1 | 81.5 | 282.6 | 1188.0 | 636.4 | 366.2 | 93.6 | 3136 |
|  |  | ste - September | 0.0 | 35.2 | 38.1 | 94.2 | 43.9 | 54.5 | 61.9 | 145.3 | 199.1 | 358.5 | 142.4 | 59.3 | 483 |
|  |  | Total - 2009 | 3 | 1028 | 2420 | 3303 | 277 | 9236 | 797 | 5357 | 5776 | 7950 | 3428 | 750 | 40324 |
|  |  | ste - 2009 | 3 | 190 | 294 | 400 | 81 | 996 | 223 | 764 | 602 | 1029 | 444 | 297 | 1903 |

Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries
Coho Released

|  | $\otimes$ | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month | 交 | Data | A | B | C | D | $E$ | $F$ | G | H | I | $J$ | $K$ | $L$ | Sub <br> Total |
| June | 1 | estimate ste | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 61.3 | 138.7 | 33.5 | 0.0 | 233 |
|  |  |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.6 | 47.1 | 26.4 | 0.0 | 65 |
|  | 2 | estimate | 0.0 | 2.0 | 0.0 | 16.6 | 0.6 | 0.0 | 6.3 | 0.0 | 13.8 | 54.2 | 1.5 | 0.0 | 95 |
|  |  | ste | 0.0 | 2.0 | 0.0 | 14.6 | 0.7 | 0.0 | 6.9 | 0.0 | 13.9 | 22.2 | 0.5 | 0.0 | 31 |
|  |  | Total - June | 0.0 | 2.0 | 0.0 | 16.6 | 0.6 | 0.0 | 6.3 | 0.0 | 75.1 | 192.9 | 35.0 | 0.0 | 328 |
|  |  | ste - June | 0.0 | 2.0 | 0.0 | 14.6 | 0.7 | 0.0 | 6.9 | 0.0 | 38.2 | 52.1 | 26.5 | 0.0 | 72 |
| July | 1 | estimate ste | 0.0 | 0.0 | 146.0 | 65.5 | 3.9 | 162.7 | 6.2 | 53.7 | 121.5 | 1277.1 | 235.8 | 0.0 | 2072 |
|  |  |  | 0.0 | 0.0 | 90.8 | 42.7 | 3.7 | 79.5 | 7.9 | 36.1 | 43.2 | 222.9 | 115.2 | 0.0 | 287 |
|  | 2 | estimate | 0.0 | 31.7 | 5.2 | 0.0 | 6.6 | 157.4 | 21.3 | 42.6 | 56.0 | 387.0 | 81.4 | 0.0 | 789 |
|  |  | ste | 0.0 | 23.7 | 5.2 | 0.0 | 4.5 | 86.7 | 17.7 | 37.9 | 0.0 | 0.0 | 39.9 | 0.0 | 107 |
|  |  | Total - July | 0.0 | 31.7 | 151.2 | 65.5 | 10.5 | 320.0 | 27.6 | 96.3 | 177.5 | 1664.1 | 317.3 | 0.0 | 2862 |
|  |  | ste - July | 0.0 | 23.7 | 90.9 | 42.7 | 5.9 | 117.6 | 19.4 | 52.3 | 43.2 | 222.9 | 121.9 | 0.0 | 307 |
| August | 1 | estimate ste | 0.0 | 0.0 | 0.0 | 17.5 | 0.0 | 15.3 | 0.7 | 23.0 | 86.0 | 23.0 | 744.0 | 0.0 | 909 |
|  |  |  | 0.0 | 0.0 | 0.0 | 15.9 | 0.0 | 17.6 | 1.1 | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37 |
|  | 2 | estimate | 0.0 | 0.0 | 8.9 | 47.6 | 3.8 | 71.4 | 1.1 | 6.3 | 25.0 | 12.0 | 378.5 | 0.0 | 555 |
|  |  | ste | 0.0 | 0.0 | 9.8 | 23.4 | 3.4 | 47.2 | 1.7 | 6.4 | 0.0 | 0.0 | 57.1 | 0.0 | 79 |
|  |  | Total - August | 0.0 | 0.0 | 8.9 | 65.1 | 3.8 | 86.7 | 1.8 | 29.3 | 111.0 | 35.0 | 1122.5 | 0.0 | 1464 |
|  |  | ste - August | 0.0 | 0.0 | 9.8 | 28.3 | 3.4 | 50.4 | 2.0 | 28.8 | 0.0 | 0.0 | 57.1 | 0.0 | 87 |
| September | 1 | estimate ste | 0.0 | 0.0 | 0.0 | 6.8 | 3.1 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13 |
|  |  |  | 0.0 | 0.0 | 0.0 | 11.1 | 5.1 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13 |
|  | 1 | estimate | 0.0 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 1.3 | 4.0 | 7.9 | 2.5 | 1.6 | 0.0 | 26 |
|  |  | $\begin{array}{r} \text { estimate } \\ \text { ste } \\ \hline \end{array}$ | 0.0 | 4.3 | 4.4 | 0.0 | 0.0 | 0.0 | 1.5 | 4.3 | 7.9 | 3.5 | 1.8 | 0.0 | 12 |
|  |  | Total - September ste-September | 0.0 | 4.3 | 4.3 | 6.8 | 3.1 | 3.2 | 1.3 | 4.0 | 7.9 | 2.5 | 1.6 | 0.0 | 39 |
|  | 2 |  | 0.0 | 4.3 | 4.4 | 11.1 | 5.1 | 5.2 | 1.5 | 4.3 | 7.9 | 3.5 | 1.8 | 0.0 | 18 |
|  |  | Total - 2009 | 0 | 38 | 164 | 154 | 18 | 410 | 37 | 130 | 371 | 1894 | 1476 | 0 | 4693 |
|  |  | ste - 2009 | 0 | 24 | 92 | 54 | 9 | 128 | 21 | 60 | 58 | 229 | 137 | 0 | 327 |

Coho - CPUE
Subarea

Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries

|  | Month | $\begin{aligned} & 0 \\ & \frac{2}{7} \\ & \frac{N}{0} \end{aligned}$ | 31 | 3J | 3K | 4A | 4B | $4 C$ | 4D | 4E | 4F | 4G | 4H | 4L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { D} \\ & \text { D } \\ & \text { E } \\ & 0 \end{aligned}$ | June | 1 | 2.75 | 2.06 | 2.38 |  | 0.32 | 0.33 | 0.62 | 0.68 | 0.78 | 1.71 | 1.17 | 1.19 |
|  |  | 2 | 1.33 | 3.92 | 2.47 | 0.03 | 0.15 | 0.17 | 0.69 | 0.76 | 0.80 | 0.86 | 0.18 | 0.33 |
|  | July | 1 | 5.35 | 7.83 | 3.64 | 0.04 | 1.85 | 2.77 | 3.00 | 6.12 | 7.17 | 3.85 | 5.97 | 1.72 |
|  |  | 2 | 4.36 | 7.67 | 3.86 | 0.04 | 1.26 | 2.53 | 3.24 | 5.34 | 6.16 | 6.44 | 4.89 | 3.62 |
|  | August | 1 | 9.74 | 11.20 | 9.31 | 0.05 | 1.41 | 1.94 | 6.59 | 6.60 | 6.67 | 5.60 | 6.48 | 1.56 |
|  |  | 2 | 6.06 | 9.68 | 4.11 |  | 2.47 | 1.73 | 7.14 | 7.88 | 8.54 | 4.89 | 5.06 | 0.17 |
|  | September | 1 | 5.80 | 5.80 | 5.80 | 1.44 | 1.44 | 1.44 | 4.36 | 4.00 | 4.00 | 3.63 | 3.63 | 3.63 |
|  |  | 2 | 6.18 | 6.18 | 6.18 | 0.78 | 0.78 | 0.78 | 1.57 | 2.08 | 2.08 | 2.29 | 2.29 | 2.29 |
| $\begin{aligned} & \text { D} \\ & \text { do } \\ & \text { OU } \\ & 0 \end{aligned}$ | June | 1 | 3.20 | 1.21 | 2.38 |  | 1.00 |  | 2.00 | 0.81 | 0.62 | 1.25 | 1.74 | 1.35 |
|  |  | 2 | 1.55 | 4.27 | 3.12 |  | 0.60 | 0.25 | 7.50 | 2.16 | 1.53 | 1.50 | 0.29 | 0.57 |
|  | July | 1 | 6.27 | 9.24 | 3.00 |  | 2.00 | 3.00 | 3.25 | 8.85 | 9.34 | 4.86 | 7.04 | 2.00 |
|  |  | 2 | 5.20 | 7.43 | 6.33 |  | 6.80 | 3.00 | 5.50 | 6.67 | 6.94 | 14.00 | 5.07 | 4.40 |
|  | August | 1 | 14.15 | 13.83 | 10.20 |  |  | 1.86 | 10.44 | 8.54 | 8.38 | 6.35 | 7.14 | 2.00 |
|  |  | 2 | 9.33 | 10.92 | July |  | 10.00 | 0.67 | 9.58 | 10.02 | 10.16 | 5.34 | 5.50 | 0.25 |
|  | September | 1 | 8.20 | 8.20 | 8.20 |  |  |  |  |  |  | 7.25 | 7.25 | 7.25 |
|  |  | 2 | 10.33 | 10.33 | 10.33 |  |  |  |  |  |  | 2.63 | 2.63 | 2.63 |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 5 \end{aligned}$ | June | 1 | 2.00 | 2.59 | 2.38 |  | 0.22 | 0.41 | 0.43 | 0.64 | 0.85 | 2.11 | 0.08 | 0.91 |
|  |  | 2 | 1.19 | 3.40 | 1.90 | 0.05 | 0.13 | 0.15 | 0.23 | 0.40 | 0.52 |  | 0.10 | 0.08 |
|  | July | 1 | 4.09 | 5.56 | 3.69 | 0.06 | 1.83 | 2.75 | 2.98 | 4.51 | 5.31 | 2.67 | 4.66 | 1.13 |
|  |  | 2 | 3.80 | 7.82 | 2.00 | 0.06 | 0.60 | 2.52 | 2.86 | 4.86 | 5.82 | 5.50 | 4.67 | 1.00 |
|  | August | 1 | 4.00 | 7.25 | 7.83 | 0.11 | 1.45 | 1.95 | 6.06 | 5.48 | 4.66 | 3.47 | 3.89 |  |
|  |  | 2 | 4.10 | 7.00 | 3.29 |  | 2.12 | 1.77 | 6.50 | 6.41 | 6.26 | 4.00 | 4.19 |  |
|  | September | 1 | 3.40 | 3.40 | 3.40 | 1.63 | 1.63 | 1.63 | 4.36 | 4.00 | 4.00 |  |  |  |
|  |  | 2 | 5.29 | 5.29 | 5.29 | 0.88 | 0.88 | 0.88 | 1.57 | 2.27 | 2.27 | 2.00 | 2.00 | 2.00 |

Other Salmon Retained

| Species | Month | $\stackrel{8}{7}$ |  | A | $B$ | C | D | $E$ | SUBAREA |  | H | I | J | K | $L$ | Sub <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Data |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| Chum | June | 1 | estimate |  |  |  | 3.7 | 0.5 | 10.1 |  | 4.4 | 6.2 | 31.6 | 9.6 |  | 66.2 |
|  |  |  | S.E. (standard error) |  |  |  | 4.3 | 0.4 | 7.9 |  | 5.4 | 6.8 | 19.5 | 8.7 |  | 24.8 |
|  |  | 2 | estimate |  | 3.9 | 2.2 |  |  |  |  |  |  | 5.3 | 0.1 |  | 11.5 |
|  |  |  | S.E. |  | 2.9 | 2.5 |  |  |  |  |  |  | 5.6 | 0.1 |  | 6.8 |
|  | July | 1 | estimate |  |  | 3.1 |  | 0.2 | 13.1 |  | 23.0 |  | 37.4 | 18.1 |  | 95.1 |
|  |  |  | S.E. |  |  | 3.2 |  | 0.3 | 6.2 |  | 12.1 |  | 19.5 | 19.2 |  | 30.7 |
|  |  | 2 | estimate |  |  | 10.3 | 5.2 | 0.3 | 3.8 | 7.1 | 10.0 |  | 8.4 |  | 5.5 | 50.7 |
|  |  |  | S.E. |  |  | 8.3 | 5.5 | 0.3 | 2.8 | 9.4 | 5.0 |  | 8.7 |  | 6.6 | 18.4 |
|  | August | 1 | estimate |  | 2.8 |  |  |  |  | 0.3 | 9.2 |  |  | 0.6 |  | 12.9 |
|  |  |  | S.E. |  | 3.2 |  |  |  |  | 0.4 | 8.5 |  |  | 0.9 |  | 9.1 |
|  |  | 2 | estimate |  |  |  |  | 0.2 | 5.7 | 0.6 | 3.1 | 11.1 |  | 2.0 |  | 22.6 |
|  |  |  | S.E. |  |  |  |  | 0.2 | 4.2 | 0.8 | 3.2 | 11.2 |  | 2.8 |  | 12.7 |
|  |  |  | Total | 0.0 | 6.7 | 15.7 | 8.9 | 1.2 | 32.8 | 8.0 | 49.8 | 17.3 | 82.8 | 30.4 | 5.5 | 259.0 |
|  |  |  | S.E. | 0.0 | 4.3 | 9.2 | 7.0 | 0.6 | 11.2 | 9.5 | 16.8 | 13.1 | 29.5 | 21.3 | 6.6 | 46.8 |
| Pink | June | 1 | estimate |  |  |  | 3.7 | 0.2 |  |  |  | 31.1 | 63.3 | 26.5 |  | 124.7 |
|  |  |  | S.E. |  |  |  | 4.3 | 0.2 |  |  |  | 23.4 | 35.9 | 22.2 |  | 48.4 |
|  |  | 2 | estimate |  | 2.0 |  | 1.1 | 0.1 | 1.9 |  |  |  |  | 0.1 |  | 5.1 |
|  |  |  | S.E. |  | 2.0 |  | 1.3 | 0.1 | 2.0 |  |  |  |  | 0.1 |  | 3.1 |
|  | July | 1 | estimate | 0.3 | 15.2 | 96.3 | 18.3 | 1.9 | 94.5 |  | 107.4 | 50.2 | 42.8 | 163.3 |  | 590.1 |
|  |  |  | S.E. | 0.3 | 13.3 | 38.6 | 11.3 | 2.0 | 32.4 |  | 43.1 | 35.8 | 22.9 | 89.8 |  | 120.8 |
|  |  | 2 | estimate |  | 2.6 | 33.5 | 10.4 | 2.5 | 46.1 |  | 45.2 | 89.3 | 92.7 | 16.7 |  | 339.0 |
|  |  |  | S.E. |  | 2.7 | 13.6 | 11.0 | 1.4 | 14.2 |  | 17.2 | 39.0 | 57.2 | 14.9 |  | 76.3 |
|  | August | 1 | estimate |  | 14.1 | 50.9 | 84.5 |  | 275.9 | 0.7 | 23.0 | 37.5 | 59.2 | 3.2 |  | 548.9 |
|  |  |  | S.E. |  | 10.3 | 29.6 | 31.1 |  | 132.6 | 0.9 | 20.2 | 30.9 | 70.8 | 3.3 |  | 161.0 |
|  |  | 2 | estimate |  | 36.5 | 31.0 | 41.7 | 2.9 | 48.6 | 9.1 | 47.2 | 44.3 | 13.9 | 19.8 |  | 294.7 |
|  |  |  | S.E. |  | 14.5 | 16.2 | 16.6 | 2.4 | 18.2 | 8.5 | 22.6 | 30.7 | 10.5 | 21.2 |  | 56.3 |
|  | September | 2 | estimate |  |  |  |  |  |  |  |  | 7.9 | 2.5 | 1.6 |  | 12.0 |
|  |  |  | S.E. |  |  |  |  |  |  |  |  | 7.9 | 3.5 | 1.8 |  | 8.8 |
|  |  |  | Total | 0.3 | 70.3 | 211.7 | 159.6 | 7.6 | 466.9 | 9.7 | 222.7 | 260.3 | 274.3 | 231.0 | 0.0 | 1914.5 |
|  |  |  | S.E. | 0.3 | 22.5 | 53.1 | 38.8 | 3.5 | 138.5 | 8.6 | 55.4 | 72.9 | 101.1 | 96.2 | 0.0 | 227.9 |

Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries

| Sockeye | June | 1 | estimate |  | 2.6 |  |  |  |  |  |  |  |  |  |  | 2.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | S.E. (standard error) |  | 2.8 |  |  |  |  |  |  |  |  |  |  | 2.8 |
|  | July | 1 | estimate |  |  | 3.1 |  |  |  |  |  |  |  |  |  | 3.1 |
|  |  |  | S.E. |  |  | 3.2 |  |  |  |  |  |  |  |  |  | 3.2 |
|  |  | 2 | estimate |  |  | 10.3 |  |  |  |  |  |  |  |  |  | 10.3 |
|  |  |  | S.E. |  |  | 10.5 |  |  |  |  |  |  |  |  |  | 10.5 |
|  | August | 1 | estimate |  | 8.5 | 3.4 | 2.9 |  |  |  |  |  |  |  |  | 14.8 |
|  |  |  | S.E. |  | 9.6 | 4.0 | 3.1 |  |  |  |  |  |  |  |  | 10.8 |
|  |  | 2 | estimate |  |  |  |  | 0.1 | 2.9 | 0.6 | 3.1 |  |  | 4.0 |  | 10.6 |
|  |  |  | S.E. |  |  |  |  | 0.1 | 2.9 | 0.8 | 3.2 |  |  | 5.6 |  | 7.1 |
|  | September | 2 | estimate |  |  |  |  |  |  | 0.4 | 1.3 |  |  |  |  | 1.8 |
|  |  |  | S.E. |  |  |  |  |  |  | 0.5 | 1.4 |  |  |  |  | 1.5 |
|  |  |  | Total | 0.0 | 11.0 | 16.8 | 2.9 | 0.1 | 2.9 | 1.0 | 4.5 | 0.0 | 0.0 | 4.0 | 0.0 | 43.1 |
|  |  |  | S.E. | 0.0 | 10.0 | 11.6 | 3.1 | 0.1 | 2.9 | 1.0 | 3.5 | 0.0 | 0.0 | 5.6 | 0.0 | 17.2 |
| Unknown | June | 1 | estimate |  | 5.1 |  |  |  |  |  |  | 24.8 |  | 9.6 |  | 39.6 |
|  |  |  | S.E. |  | 5.5 |  |  |  |  |  |  | 17.5 |  | 9.6 |  | 20.7 |
|  | July | 1 | estimate |  |  |  |  | 0.1 | 7.9 |  |  |  |  |  |  | 8.0 |
|  |  |  | S.E. |  |  |  |  | 0.2 | 8.0 |  |  |  |  |  |  | 8.0 |
|  |  | 2 | estimate |  | 5.3 |  | 62.4 | 1.9 |  |  |  |  |  |  |  | 69.6 |
|  |  |  | S.E. |  | 5.5 |  | 66.2 | 2.4 |  |  |  |  |  |  |  | 66.4 |
|  | August | 1 | estimate |  |  |  |  |  | 11.5 |  |  |  |  |  |  | 11.5 |
|  |  |  | S.E. |  |  |  |  |  | 13.2 |  |  |  |  |  |  | 13.2 |
|  | September | 2 | estimate |  |  |  | 16.3 | 3.2 | 19.0 |  |  |  |  |  |  | 38.5 |
|  |  |  | S.E. |  |  |  | 17.6 | 5.0 | 24.5 |  |  |  |  |  |  | 30.6 |
|  |  |  | Total | 0.0 | 10.4 | 0.0 | 78.6 | 5.2 | 38.4 | 0.0 | 0.0 | 24.8 | 0.0 | 9.6 | 0.0 | 167.1 |
|  |  |  | S.E. | 0.0 | 7.8 | 0.0 | 68.5 | 5.5 | 29.0 | 0.0 | 0.0 | 17.5 | 0.0 | 9.6 | 0.0 | 77.6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ALL-TOTAL: | 0.3 | 98.5 | 244.2 | 250.1 | 14.1 | 540.9 | 18.7 | 277.0 | 302.4 | 357.1 | 275.1 | 5.5 | 2384 |
|  |  |  | S.E.: | 0.3 | 26.1 | 55.2 | 79.1 | 6.6 | 141.9 | 12.8 | 58.0 | 76.1 | 105.3 | 99.1 | 6.6 | 246 |

Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries

Other Salmon Released

|  |  | 0 | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species | Month | $\stackrel{\rightharpoonup}{\pi}$ | Data | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | K | $L$ | Sub <br> Total |
| Pink | July | 1 | estimate |  | 10.1 | 31.1 | 10.5 | 0.3 | 7.9 |  | 23.0 | 23.2 | 53.5 | 90.7 |  | 250.2 |
|  |  |  | S.E. <br> (standard |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | error) |  | 11.5 | 31.8 | 11.5 | 0.5 | 8.0 |  | 19.7 | 23.8 | 60.1 | 96.0 |  | 123.0 |
|  |  | 2 | estimate |  |  | 18.1 | 80.5 | 3.8 | 30.7 | 21.3 | 40.1 |  |  | 11.1 |  | 205.7 |
|  |  |  | S.E. |  |  | 18.3 | 82.8 | 3.7 | 22.5 | 21.2 | 40.4 |  |  | 13.3 |  | 99.9 |
|  | August | 1 | estimate |  |  | 6.8 | 52.4 |  | 103.4 |  |  |  |  |  |  | 162.6 |
|  |  |  | S.E. |  |  | 7.9 | 32.0 |  | 73.4 |  |  |  |  |  |  | 80.5 |
|  |  | 2 | estimate |  | 8.1 | 4.4 | 7.9 | 0.9 | 22.8 |  |  | 177.2 |  | 13.8 |  | 235.2 |
|  |  |  | S.E. |  | 5.9 | 4.9 | 6.6 | 0.9 | 14.0 |  |  | 139.1 |  | 13.6 |  | 140.8 |
|  | September | 1 | estimate |  |  |  | 2.3 | 1.0 | 1.1 |  |  |  |  |  |  | 4.3 |
|  |  |  | S.E. |  |  |  | 3.7 | 1.7 | 1.7 |  |  |  |  |  |  | 4.4 |
|  |  |  | Total | 0.0 | 18.2 | 60.3 | 153.6 | 6.1 | 165.9 | 21.3 | 63.1 | 200.3 | 53.5 | 115.7 | 0.0 | 858.2 |
| Unknown | July | 2 | estimate |  | 37.0 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | S.E. |  | 38.2 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Total - 2009 | 0 | 55 | 60 | 154 | 6 | 166 | 21 | 63 | 200 | 53 | 116 | 0 | 895 |
|  |  |  | S.E. - 2009 | 0 | 40 | 38 | 90 | 4 | 78 | 21 | 45 | 141 | 60 | 98 | 0 | 230 |


| Other Salmon - CPUE |  |  |  |  |  |  |  |  | Subarea |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Species | Month | $\stackrel{\text { 2 }}{\frac{1}{7}}$ | 31 | $3 J$ | $3 K$ | $4 A$ | 4B | 4 C | $4 D$ | 4E | 4F | 4G | 4H | 4L |
| $\begin{aligned} & \text { D } \\ & \text { E } \\ & \text { E } \\ & \text { E } \\ & 0 \end{aligned}$ | Chum | June | 1 | 0.0 | 0.1 | 0.1 |  |  |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.02 |
|  |  |  | 2 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |  |  |  |  |  |
|  |  | July | 1 |  | 0.15 | 0.07 |  |  | 0.01 |  | 0.02 | 0.03 |  | 0.07 |  |
|  |  |  | 2 |  | 0.06 |  |  |  | 0.05 | 0.05 | 0.03 | 0.02 | 0.33 | 0.05 | 0.08 |
|  |  | August | 1 |  |  | 0.06 |  | 0.03 |  |  |  |  | 0.03 | 0.05 |  |
|  |  |  | 2 | 0.06 |  | 0.04 |  |  |  |  | 0.02 | 0.03 | 0.02 | 0.02 |  |
|  | Pink | June | 1 | 0.16 | 0.17 | 0.16 |  |  |  | 0.02 | 0.01 |  |  |  |  |
|  |  |  | 2 |  |  | 0.02 |  | 0.01 |  | 0.03 | 0.02 | 0.02 |  |  |  |
|  |  | July | 1 | 0.50 | 0.17 | 0.64 | 0.02 | 0.09 | 0.27 | 0.13 | 0.18 | 0.20 | 0.00 | 0.34 |  |
|  |  |  | 2 | 1.16 | 0.61 | 0.43 |  | 0.02 | 0.16 | 0.10 | 0.21 | 0.23 | 0.00 | 0.24 |  |
|  |  | August | 1 | 0.22 | 0.50 | 0.31 |  | 0.13 | 0.23 | 0.39 | 0.57 | 0.71 | 0.09 | 0.11 |  |
|  |  |  | 2 | 0.25 | 0.16 | 0.37 |  | 0.40 | 0.19 | 0.36 | 0.31 | 0.26 | 0.28 | 0.31 | 0.17 |
|  |  | September | 1 |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 |  |  |  |
|  |  |  | 2 | 0.06 | 0.06 | 0.06 |  |  |  |  |  |  |  |  |  |
|  | Sockeye | June | 1 |  |  |  |  | 0.01 |  |  |  |  |  |  |  |
|  |  | July | 1 |  |  |  |  |  | 0.01 |  |  |  |  |  |  |
|  |  |  | 2 |  |  |  |  |  | 0.05 |  |  |  |  |  |  |
|  |  | August | 1 |  |  |  |  | 0.08 | 0.02 | 0.01 | 0.01 |  |  |  |  |
|  |  |  | 2 |  |  | 0.07 |  |  |  |  | 0.01 | 0.02 | 0.02 | 0.02 |  |
|  |  | September | 2 |  |  |  |  |  |  |  |  |  | 0.03 | 0.03 | 0.03 |
|  | Unknown | June | 1 | 0.13 |  | 0.06 |  | 0.03 |  |  |  |  | 0.00 |  | 0.00 |
|  |  | July | 1 |  |  |  | 0.00 |  |  | 0.00 | 0.01 | 0.02 |  |  |  |
|  |  |  | 2 |  |  |  |  | 0.04 |  | 0.59 | 0.16 |  |  |  |  |
|  |  | August | 1 |  |  |  |  |  |  |  | 0.02 | 0.03 |  |  |  |
|  |  | September | 2 |  |  |  |  |  |  | 1.43 | 0.83 | 0.83 |  |  |  |
| $\begin{aligned} & \text { ס } \\ & \text { O } \\ & \text { O } \end{aligned}$ | Chum | June | 1 |  | 0.14 | 0.06 |  |  |  | 0.17 | 0.06 | 0.05 |  | 0.04 | 0.03 |
|  |  |  | 2 |  | 0.07 | 0.04 |  |  |  |  |  |  |  |  |  |
|  |  | July | 1 |  | 0.10 |  |  |  |  |  | 0.03 | 0.04 |  | 0.10 |  |
|  |  |  | 2 |  | 0.14 |  |  |  | 1.50 |  | 0.03 | 0.03 |  | 0.07 | 0.10 |
|  |  | August | 1 |  |  |  |  |  |  |  |  |  | 0.02 | 0.03 |  |
|  |  |  | 2 |  |  | 0.17 |  |  |  |  | 0.02 | 0.03 | 0.03 | 0.03 |  |

## Appendix D2 - Detailed Salmon Catch, Release and CPUE summaries



Halibut Retained

| Month | $\frac{\otimes}{\underset{\pi}{\pi}}$ |  | A | $B$ | C | D | $E$ | SUBAREA |  | H | I | J | K | L | Sub <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Data |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| June | 1 | estimate |  | 54.0 | 319.9 | 74.0 | 15.4 | 283.2 | 131.9 | 316.9 | 182.9 | 675.4 | 237.1 |  | 2291 |
|  |  | S.E. (standard error) |  | 23.4 | 97.8 | 39.8 | 7.3 | 100.2 | 67.8 | 170.3 | 86.6 | 179.2 | 151.9 |  | 924 |
|  | 2 | estimate |  | 52.8 | 182.7 | 40.0 | 3.5 | 92.8 | 25.1 | 60.6 | 115.5 | 149.4 | 15.5 |  | 738 |
|  |  | S.E. |  | 15.4 | 75.8 | 18.6 | 3.1 | 25.1 | 14.9 | 21.6 | 43.0 | 45.6 | 2.1 |  | 265 |
|  |  | Total - June | 0.0 | 106.8 | 502.6 | 113.9 | 18.9 | 376.0 | 157.1 | 377.5 | 298.4 | 824.8 | 252.6 | 0.0 | 3029 |
|  |  | S.E. - June | 0.0 | 28.1 | 123.7 | 43.9 | 7.9 | 103.3 | 69.4 | 171.6 | 96.7 | 185.0 | 151.9 | 0.0 | 360 |
| July | 1 | estimate | 0.8 | 70.8 | 323.1 | 83.8 | 12.1 | 598.3 | 59.1 | 626.4 | 103.5 | 432.1 | 214.4 | 471.7 | 2996 |
|  |  | S.E. | 1.0 | 48.0 | 68.7 | 34.9 | 11.6 | 106.0 | 42.5 | 189.6 | 64.3 | 152.8 | 82.5 | 107.2 | 909 |
|  | 2 | estimate | 0.2 | 74.0 | 157.4 | 80.5 | 11.1 | 201.5 | 30.8 | 351.2 | 108.6 | 205.6 | 74.4 | 175.1 | 1470 |
|  |  | S.E. | 0.3 | 26.8 | 37.7 | 31.5 | 5.8 | 43.4 | 25.3 | 48.7 | 29.8 | 66.1 | 45.2 | 90.4 | 451 |
|  |  | Total - July | 1.0 | 144.7 | 480.5 | 164.3 | 23.2 | 799.8 | 89.9 | 977.6 | 212.1 | 637.7 | 288.8 | 646.7 | 4466 |
|  |  | S.E. - July | 1.1 | 55.0 | 78.4 | 47.0 | 13.0 | 114.5 | 49.4 | 195.8 | 70.8 | 166.4 | 94.1 | 140.2 | 356 |
| August | 1 | estimate | 6.8 | 39.5 | 189.9 | 183.5 |  | 528.7 | 23.5 | 649.1 | 234.7 | 303.0 | 60.5 | 199.6 | 2419 |
|  |  | S.E. | 11.1 | 21.3 | 88.8 | 61.2 |  | 223.5 | 21.8 | 327.8 | 76.2 | 150.9 | 4.2 | 130.3 | 1117 |
|  | 2 | estimate |  | 79.0 | 104.1 | 132.9 | 11.9 | 251.3 | 92.9 | 396.1 | 288.9 | 239.0 | 126.9 |  | 1723 |
|  |  | S.E. |  | 21.2 | 38.8 | 36.2 | 9.4 | 61.9 | 73.5 | 84.3 | 117.3 | 62.1 | 70.2 |  | 575 |
|  |  | Total-August | 6.8 | 118.5 | 294.0 | 316.4 | 11.9 | 780.1 | 116.4 | 1045.2 | 523.6 | 541.9 | 187.3 | 199.6 | 4142 |
|  |  | S.E. - August | 11.1 | 30.0 | 97.0 | 71.1 | 9.4 | 232.0 | 76.7 | 338.5 | 139.9 | 163.2 | 70.3 | 130.3 | 508 |
| September | 1 | estimate |  | 5.3 | 7.1 | 2.3 | 2.1 | 2.1 | 50.0 | 188.8 | 55.5 | 58.7 | 31.0 | 100.0 | 503 |
|  |  | S.E. |  | 4.6 | 5.0 | 3.7 | 2.7 | 2.8 | 49.4 | 90.0 | 47.7 | 71.0 | 32.3 | 25.1 | 334 |
|  | 2 | estimate |  | 92.8 | 92.7 | 27.7 | 10.8 | 64.6 | 46.0 | 140.4 | 150.3 | 46.7 | 30.1 |  | 702 |
|  |  | S.E. |  | 26.3 | 28.6 | 17.1 | 10.8 | 47.1 | 21.7 | 47.7 | 67.2 | 41.8 | 18.2 |  | 327 |
|  |  | Total - September | 0.0 | 98.2 | 99.8 | 29.9 | 12.8 | 66.7 | 96.0 | 329.2 | 205.8 | 105.4 | 61.1 | 100.0 | 1205 |
|  |  | S.E. - September | 0.0 | 26.7 | 29.0 | 17.5 | 11.2 | 47.2 | 53.9 | 101.8 | 82.5 | 82.4 | 37.0 | 25.1 | 182 |
|  |  | Total - 2009 | 8 | 468 | 1377 | 625 | 67 | 2023 | 459 | 2729 | 1240 | 2110 | 790 | 946 | 12842 |
|  |  | S.E. -2009 | 11 | 74 | 178 | 97 | 21 | 283 | 127 | 439 | 202 | 309 | 196 | 193 | 740 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

## Halibut Released

| Month | $\frac{0}{\frac{0}{\pi}}$ |  | A | B | C | D | $E$ | SUBAREA |  | H | I | $J$ | K | $L$ | Sub Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Data |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| June | 1 | estimate |  | 7.7 | 115.4 |  | 9.4 | 80.9 | 41.7 | 35.2 | 43.5 | 44.2 | 30.5 |  | 408 |
|  |  | S.E. (standard error) |  | 6.3 | 87.8 |  | 9.2 | 60.0 | 46.6 | 29.6 | 37.4 | 44.3 | 26.4 |  | 348 |
|  | 2 | estimate |  | 3.9 | 86.9 |  | 0.5 | 27.1 |  | 45.0 | 55.6 | 27.2 | 2.4 |  | 249 |
|  |  | S.E. |  | 2.9 | 57.5 |  | 0.6 | 16.2 |  | 35.2 | 44.8 | 22.2 | 1.2 |  | 181 |
|  |  | Total - June | 0.0 | 11.6 | 202.3 | 0.0 | 9.9 | 108.0 | 41.7 | 80.2 | 99.1 | 71.4 | 32.8 | 0.0 | 657 |
|  |  | S.E. - June | 0.0 | 6.9 | 104.9 | 0.0 | 9.2 | 62.2 | 46.6 | 46.0 | 58.4 | 49.6 | 26.4 | 0.0 | 161 |
| July | 1 | estimate |  |  | 37.3 | 23.6 | 1.1 | 42.0 | 6.2 | 112.5 | 2.0 | 47.8 | 6.0 | 38.8 | 317 |
|  |  | S.E. |  |  | 24.2 | 23.8 | 1.4 | 30.8 | 7.9 | 60.2 | 0.0 | 43.0 | 0.0 | 40.2 | 232 |
|  | 2 | estimate |  | 13.2 | 5.2 | 15.6 | 3.3 | 28.8 | 33.2 | 37.6 | 24.6 | 2.0 |  | 21.9 | 185 |
|  |  | S.E. |  | 13.6 | 3.7 | 10.6 | 3.1 | 17.8 | 34.4 | 24.2 | 18.5 | 0.0 |  | 26.2 | 152 |
|  |  | Total - July | 0.0 | 13.2 | 42.4 | 39.2 | 4.4 | 70.8 | 39.4 | 150.1 | 26.6 | 49.8 | 6.0 | 60.7 | 503 |
|  |  | S.E. - July | 0.0 | 13.6 | 24.5 | 26.1 | 3.4 | 35.5 | 35.3 | 64.9 | 18.5 | 43.0 | 0.0 | 48.0 | 113 |
| August | 1 | estimate |  |  |  | 8.7 |  | 34.5 | 4.6 | 105.9 |  |  |  | 95.4 | 249 |
|  |  | S.E. |  |  |  | 7.0 |  | 29.7 | 5.3 | 90.7 |  |  |  | 124.1 | 257 |
|  | 2 | estimate |  |  | 8.9 | 45.6 | 2.2 | 17.1 | 13.0 | 72.3 |  |  | 4.0 |  | 163 |
|  |  | S.E. |  |  | 9.8 | 26.9 | 2.2 | 17.6 | 12.8 | 36.4 |  |  | 2.8 |  | 108 |
|  |  | Total - August | 0.0 | 0.0 | 8.9 | 54.4 | 2.2 | 51.6 | 17.6 | 178.2 | 0.0 | 0.0 | 4.0 | 95.4 | 412 |
|  |  | S.E. - August | 0.0 | 0.0 | 9.8 | 27.8 | 2.2 | 34.5 | 13.9 | 97.7 | 0.0 | 0.0 | 2.8 | 124.1 | 165 |
| September | 1 | estimate |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | S.E. |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2 | estimate |  |  |  | 3.3 | 0.6 | 3.8 | 15.6 | 47.7 | 7.9 | 2.5 | 1.6 |  | 83 |
|  |  | S.E. |  |  |  | 3.5 | 1.0 | 4.9 | 10.6 | 27.6 | 7.9 | 3.5 | 1.8 |  | 61 |
|  |  | Total | 0.0 | 0.0 | 0.0 | 3.3 | 0.6 | 3.8 | 15.6 | 47.7 | 7.9 | 2.5 | 1.6 | 0.0 | 83 |
|  |  | S.E. | 0.0 | 0.0 | 0.0 | 3.5 | 1.0 | 4.9 | 10.6 | 27.6 | 7.9 | 3.5 | 1.8 | 0.0 | 32 |
|  |  | Total - 2009 | 0 | 25 | 254 | 97 | 17 | 234 | 114 | 456 | 134 | 124 | 44 | 156 | 1655 |
|  |  | S.E. - 2009 | 0 | 15 | 108 | 38 | 10 | 80 | 61 | 129 | 62 | 66 | 27 | 133 | 258 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

| Halibut - CPUE |  |  |  |  |  |  |  | Subarea |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Month | $\begin{aligned} & \mathscr{0} \\ & \frac{2}{7} \\ & \frac{\pi}{0} \end{aligned}$ | 31 | $3 J$ | 3K | $4 A$ | $4 B$ | $4 C$ | 4D | 4E | 4F | 4G | 4H | 4L |
| OOOB0 | June | 1 | 0.88 | 1.69 | 1.31 | 0.00 | 0.29 | 1.33 | 0.40 | 0.75 | 0.84 | 1.12 | 2.06 | 1.95 |
|  |  | 2 | 1.15 | 0.88 | 0.98 |  | 0.29 | 1.71 | 1.13 | 0.97 | 0.79 | 1.14 | 2.06 | 1.96 |
|  | July | 1 | 0.96 | 1.47 | 0.71 | 0.05 | 0.42 | 0.91 | 0.58 | 1.14 | 1.28 | 1.46 | 1.98 | 2.92 |
|  |  | 2 | 1.32 | 1.11 | 1.86 | 0.04 | 0.60 | 0.77 | 0.76 | 0.94 | 1.00 | 1.44 | 1.87 | 2.46 |
|  | August | 1 | 1.35 | 2.50 | 0.44 | 0.21 | 0.36 | 0.85 | 0.84 | 1.15 | 1.35 | 3.00 | 3.20 | 2.56 |
|  |  | 2 | 1.63 | 2.63 | 1.74 | 0.00 | 0.87 | 0.64 | 1.16 | 1.26 | 1.35 | 2.88 | 2.63 | 4.50 |
|  | September | 1 | 0.90 | 0.90 | 0.90 | 0.22 | 0.22 | 0.22 | 0.09 | 0.17 | 0.17 | 3.88 | 3.88 | 3.88 |
|  |  | 2 | 1.12 | 1.12 | 1.12 | 1.16 | 1.16 | 1.16 | 2.43 | 2.83 | 2.83 | 3.03 | 3.03 | 3.03 |
| $\begin{aligned} & \text { D } \\ & \text { do } \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | June | 1 | 0.85 | 2.43 | 1.50 | 0.13 | 0.56 | 2.33 | 0.33 | 1.31 | 1.14 | 1.75 | 2.39 | 2.30 |
|  |  | 2 | 1.82 | 1.33 | 1.54 |  |  | 2.50 |  | 1.11 | 1.24 | 1.25 | 2.86 | 2.50 |
|  | July | 1 | 1.13 | 1.86 | 1.00 |  | 1.25 | 1.75 | 2.50 | 1.89 | 1.80 | 2.43 | 2.49 | 3.12 |
|  |  | 2 | 1.30 | 1.57 | 3.67 |  | 1.00 | 1.00 | 1.50 | 1.67 | 1.69 | 4.00 | 2.60 | 2.60 |
|  | August | 1 | 1.15 | 2.50 | 0.60 |  |  | 1.14 | 1.56 | 1.98 | 2.02 | 3.33 | 3.40 | 3.00 |
|  |  | 2 | 2.00 | 3.38 | 2.83 |  | 2.00 | 1.33 | 1.83 | 1.64 | 1.58 | 3.79 | 3.47 | 6.25 |
|  | September | 1 | 1.60 | 1.60 | 1.60 |  |  |  |  |  |  | 3.75 | 3.75 | 3.75 |
|  |  | 2 |  |  |  | 1.50 | 1.50 | 1.50 |  | 9.00 | 9.00 | 3.81 | 3.81 | 3.81 |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 5 \end{aligned}$ | June | 1 | 0.92 | 1.23 | 1.12 | 0.00 | 0.25 | 1.08 | 0.41 | 0.55 | 0.70 | 0.56 | 1.42 | 1.36 |
|  |  | 2 | 0.69 | 0.20 | 0.48 |  | 0.31 | 1.55 | 1.20 | 0.93 | 0.61 | 1.00 | 1.50 | 1.38 |
|  | July | 1 | 0.73 | 0.83 | 0.69 |  | 0.31 | 0.81 | 0.43 | 0.69 | 0.83 | 0.33 | 1.36 | 2.50 |
|  |  | 2 | 1.33 | 0.82 | 0.50 | 0.06 | 0.55 | 0.77 | 0.63 | 0.68 | 0.70 | 1.13 | 0.94 | 2.00 |
|  | August | 1 | 1.60 | 2.50 | 0.17 | 0.44 | 0.37 | 0.81 | 0.74 | 0.67 | 0.57 | 2.07 | 2.44 | 1.00 |
|  |  | 2 | 1.40 | 1.00 | 1.43 | 0.00 | 0.81 | 0.61 | 0.98 | 1.00 | 1.04 | 1.05 | 0.94 | 1.00 |
|  | September | 1 | 0.20 | 0.20 | 0.20 | 0.25 | 0.25 | 0.25 | 0.09 | 0.17 | 0.17 | 4.00 | 4.00 | 4.00 |
|  |  | 2 | 1.36 | 1.36 | 1.36 | 1.12 | 1.12 | 1.12 | 2.43 | 2.27 | 2.27 | 2.37 | 2.37 | 2.37 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries
Lingcod Retained

| Month | $\frac{\mathscr{D}}{\stackrel{0}{7}}$ |  | A | $B$ | C | D | $E$ | SUBAREA |  | H | I | J | K | $L$ | Sub <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Data |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| June | 1 | estimate |  | 15.4 | 42.0 | 37.0 | 6.5 | 116.3 | 13.9 | 74.8 | 27.6 | 199.3 | 52.1 |  | 585 |
|  |  | S.E. (standard error) |  | 12.0 | 23.1 | 28.4 | 3.3 | 47.1 | 11.2 | 60.2 | 15.6 | 99.7 | 41.6 |  | 342 |
|  | 2 | estimate | 0.4 |  | 11.1 | 1.1 | 1.6 | 77.3 | 12.6 | 12.1 | 6.4 | 51.8 | 0.6 |  | 175 |
|  |  | S.E. | 0.5 |  | 7.5 | 1.3 | 1.5 | 27.7 | 13.7 | 9.6 | 5.0 | 19.4 | 0.4 |  | 87 |
|  |  | Total - June | 0.4 | 15.4 | 53.1 | 38.1 | 8.1 | 193.6 | 26.5 | 86.9 | 34.1 | 251.1 | 52.7 | 0.0 | 760 |
|  |  | S.E. - June | 0.5 | 12.0 | 24.3 | 28.4 | 3.7 | 54.6 | 17.7 | 61.0 | 16.4 | 101.5 | 41.6 | 0.0 | 145 |
| July | 1 | estimate | 0.3 | 5.1 | 59.0 | 23.6 | 3.8 | 170.6 | 12.4 | 138.1 | 66.6 | 128.9 | 56.4 | 84.0 | 749 |
|  |  | S.E. | 0.3 | 5.7 | 22.0 | 14.9 | 3.8 | 45.8 | 9.3 | 63.4 | 59.5 | 47.3 | 57.6 | 50.3 | 380 |
|  | 2 | estimate |  | 2.6 | 2.6 | 7.8 | 1.1 | 17.3 | 2.4 | 37.6 | 5.1 | 106.0 | 5.6 | 82.1 | 270 |
|  |  | S.E. |  | 2.7 | 2.6 | 8.3 | 0.7 | 7.8 | 3.1 | 13.8 | 3.2 | 37.2 | 6.7 | 82.7 | 169 |
|  |  | Total - July | 0.3 | 7.7 | 61.6 | 31.4 | 4.9 | 187.8 | 14.8 | 175.7 | 71.7 | 235.0 | 62.0 | 166.1 | 1019 |
|  |  | S.E. - July | 0.3 | 6.4 | 22.2 | 17.0 | 3.8 | 46.4 | 9.8 | 64.8 | 59.5 | 60.2 | 58.0 | 96.8 | 165 |
| August | 1 | estimate |  | 5.6 | 74.6 | 8.7 |  | 145.6 | 4.7 | 138.1 | 22.5 | 179.6 | 3.6 | 26.0 | 609 |
|  |  | S.E. |  | 4.7 | 47.9 | 5.5 |  | 75.7 | 5.3 | 107.4 | 16.6 | 145.9 | 0.9 | 33.8 | 444 |
|  | 2 | estimate |  | 6.1 | 4.4 | 7.9 | 2.8 | 94.3 | 34.5 | 94.3 | 11.1 | 126.1 | 7.9 |  | 389 |
|  |  | S.E. |  | 4.7 | 4.9 | 5.1 | 2.7 | 46.5 | 31.3 | 51.3 | 11.2 | 65.8 | 8.0 |  | 231 |
|  |  | Total - August | 0.0 | 11.7 | 79.0 | 16.7 | 2.8 | 239.8 | 39.3 | 232.4 | 33.6 | 305.7 | 11.5 | 26.0 | 999 |
|  |  | S.E. - August | 0.0 | 6.6 | 48.1 | 7.5 | 2.7 | 88.8 | 31.7 | 119.0 | 20.1 | 160.0 | 8.0 | 33.8 | 230 |
| September | 1 | estimate |  |  |  |  |  |  | 6.5 | 24.4 | 30.8 | 32.6 | 17.2 | 12.9 | 124 |
|  |  | S.E. |  |  |  |  |  |  | 8.9 | 22.0 | 33.6 | 47.3 | 21.9 | 9.8 | 144 |
|  | 2 | estimate |  |  |  |  | 1.3 | 7.6 | 12.6 | 38.4 | 15.8 | 4.9 | 3.2 |  | 84 |
|  |  | S.E. |  |  |  |  | 2.0 | 9.8 | 7.3 | 18.0 | 15.8 | 7.0 | 3.6 |  | 64 |
|  |  | Total | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 7.6 | 19.0 | 62.8 | 46.6 | 37.5 | 20.4 | 12.9 | 208 |
|  |  | S.E. | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 9.8 | 11.5 | 28.4 | 37.2 | 47.8 | 22.2 | 9.8 | 73 |
|  |  | Total - 2009 | 1 | 35 | 194 | 86 | 17 | 629 | 100 | 558 | 186 | 829 | 147 | 205 | 2986 |
|  |  | S.E. - 2009 | 1 | 15 | 58 | 34 | 6 | 115 | 39 | 151 | 75 | 205 | 75 | 103 | 326 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

## Lingcod Released

| Month | $\begin{aligned} & \stackrel{0}{7} \\ & \stackrel{\rightharpoonup}{\pi} \end{aligned}$ |  | A | $B$ | C | D | $E$ | SUBAREA |  | H | I | J | $K$ | $L$ | Sub <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Data |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| June | 1 | estimate |  |  | 5.2 |  | 1.8 | 55.6 |  |  | 2.0 | 3.0 |  |  | 68 |
|  |  | S.E. (standard error) |  |  | 5.5 |  | 2.0 | 54.8 |  |  | 0.0 | 0.0 |  |  | 55 |
|  | 2 | estimate |  | 2.0 | 6.7 |  | 0.0 | 1.9 |  |  |  | 4.0 |  |  | 15 |
|  |  | S.E. |  | 2.0 | 7.6 |  | 0.1 | 2.0 |  |  |  | 0.0 |  |  | 8 |
|  |  | Total - June | 0.0 | 2.0 | 11.9 | 0.0 | 1.9 | 57.6 | 0.0 | 0.0 | 2.0 | 7.0 | 0.0 | 0.0 | 82 |
|  |  | S.E. - June | 0.0 | 2.0 | 9.4 | 0.0 | 2.0 | 54.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56 |
| July | 1 | estimate |  |  | 3.1 |  | 0.0 | 2.6 |  | 2.6 | 1.0 |  | 2.0 |  | 11 |
|  |  | S.E. |  |  | 3.2 |  | 0.1 | 2.7 |  | 2.8 | 0.0 |  | 0.0 |  | 5 |
|  | 2 | estimate |  |  | 2.6 |  |  |  | 2.4 |  |  | 9.4 |  |  | 14 |
|  |  | S.E. |  |  | 2.6 |  |  |  | 3.1 |  |  | 8.7 |  |  | 10 |
|  |  | Total - July | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 2.6 | 2.4 | 2.6 | 1.0 | 9.4 | 2.0 | 0.0 | 26 |
|  |  | S.E. - July | 0.0 | 0.0 | 4.1 | 0.0 | 0.1 | 2.7 | 3.1 | 2.8 | 0.0 | 8.7 | 0.0 | 0.0 | 11 |
| August | 1 | estimate |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | S.E. |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2 | estimate |  |  |  |  | 0.4 | 14.3 |  |  |  |  |  |  | 15 |
|  |  | S.E. |  |  |  |  | 0.6 | 14.7 |  |  |  |  |  |  | 15 |
|  |  | Total - August | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
|  |  | S.E. - August | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| September | 1 | estimate |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | S.E. |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2 | estimate |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | S.E. |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | Total | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |
|  |  | S.E. | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |
|  |  | Total - 2009 | 0 | 2 | 18 |  | 2 | 74 | 2 | 3 | 3 | 16 | 2 | 0 | 123 |
|  |  | S.E. - 2009 | 0 | 2 | 10 |  | 2 | 57 | 3 | 3 | 0 | 9 | 0 | 0 | 59 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries
Lingcod-CPUE

|  | Month | $\begin{aligned} & 0 \\ & \frac{2}{7} \\ & \frac{\pi}{0} \end{aligned}$ | 31 | $3 J$ | $3 K$ | $4 A$ | 4B | $4 C$ | 4D | 4E | 4F | 4G | 4H | $4 L$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OdOEOO | June | 1 | 0.09 | 0.47 | 0.29 |  | 0.08 | 0.17 | 0.20 | 0.32 | 0.34 | 0.12 | 0.49 | 0.64 |
|  |  | 2 | 0.07 | 0.24 | 0.16 | 0.03 | 0.00 | 0.10 | 0.03 | 0.45 | 0.66 | 0.57 | 0.41 | 0.44 |
|  | July | 1 | 0.65 | 0.36 | 0.21 | 0.02 | 0.03 | 0.17 | 0.16 | 0.35 | 0.37 | 0.31 | 0.44 | 0.52 |
|  |  | 2 | 0.04 | 0.39 | 0.14 |  | 0.02 | 0.01 | 0.07 | 0.10 | 0.09 | 0.11 | 0.20 | 1.15 |
|  | August | 1 | 0.13 | 1.50 | 0.06 |  | 0.05 | 0.33 | 0.04 | 0.23 | 0.37 | 0.60 | 0.68 | 0.33 |
|  |  | 2 | 0.06 | 1.37 | 0.15 |  | 0.07 | 0.03 | 0.07 | 0.30 | 0.51 | 1.07 | 0.63 | 5.17 |
|  | September | 1 | 0.50 | 0.50 | 0.50 |  |  |  |  |  |  | 0.50 | 0.50 | 0.50 |
|  |  | 2 | 0.12 | 0.12 | 0.12 |  |  |  |  | 0.33 | 0.33 | 0.83 | 0.83 | 0.83 |


| $\begin{aligned} & \text { d } \\ & \text { d } \\ & \text { D } \\ & \text { O } \end{aligned}$ | June | 1 | 0.15 | 0.86 | 0.44 | 0.11 | 0.22 |  | 0.53 | 0.52 | 0.13 | 0.30 | 0.68 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | 0.09 | 0.40 | 0.27 | 0.00 | 0.13 |  | 1.26 | 1.41 |  | 0.71 | 0.43 |
|  | July | 1 | 1.07 | 0.52 |  | 0.25 | 0.08 | 0.25 | 0.50 | 0.52 | 0.29 | 0.63 | 0.35 |
|  |  | 2 |  | 0.14 |  |  |  | 0.50 | 0.23 | 0.13 |  | 0.24 | 1.20 |
|  | August | 1 | 0.23 | 2.33 | 0.10 |  | 1.29 | 0.11 | 0.58 | 0.67 | 0.77 | 0.86 | 0.43 |
|  |  | 2 | 0.00 | 1.38 | 0.33 |  |  | 0.08 | 0.60 | 0.76 | 1.34 | 0.81 | 6.25 |
|  | September | 1 | 1.00 | 1.00 | 1.00 |  |  |  |  |  | 1.00 | 1.00 | 1.00 |
|  |  | 2 |  |  |  |  |  |  |  |  | 1.38 | 1.38 | 1.38 |


| $\begin{aligned} & \text { D } \\ & \text { do } \\ & 0 \\ & 0 \\ & 0 \\ & j \end{aligned}$ | June | 1 |  | 0.23 | 0.15 |  | 0.08 | 0.16 | 0.23 | 0.24 | 0.26 | 0.11 | 0.83 | 0.59 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July | 2 | 0.06 |  | 0.07 | 0.05 |  | 0.10 | 0.03 | 0.24 | 0.36 | 1.33 | 0.20 | 0.46 |
|  |  | 1 | 0.09 | 0.11 | 0.23 | 0.03 |  | 0.18 | 0.16 | 0.27 | 0.23 | 0.33 | 0.20 | 0.88 |
|  |  | 2 | 0.07 | 0.55 | 0.25 |  | 0.02 | 0.01 |  | 0.05 | 0.07 | 0.13 | 0.15 | 1.00 |
|  | August | 1 |  | 0.25 |  |  | 0.05 | 0.22 | 0.03 | 0.03 | 0.02 | 0.13 |  |  |
|  |  | 2 | 0.10 | 1.33 | 0.10 |  | 0.07 | 0.03 | 0.07 | 0.10 | 0.15 | 0.53 | 0.25 | 3.00 |
|  | September | 2 | 0.14 | 0.14 | 0.14 |  |  |  |  | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 |

## Other Groundfish Retained

|  |  | 0 | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species | Month | $\underset{\square}{\stackrel{\rightharpoonup}{0}}$ | Data | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | $K$ | $L$ | Sub <br> Total |
| Arrowtooth Flounder | August | 2 | estimate |  | 6.1 |  |  |  |  |  |  |  |  | 4.0 |  | 10.0 |
| (Turbot) |  |  | S.E. (standard error) |  | 6.3 |  |  |  |  |  |  |  |  | 5.6 |  | 8.4 |
| Cabezon | August | 1 | estimate |  |  |  |  |  | 3.8 |  |  |  |  |  |  | 3.8 |
|  |  |  | S.E. |  |  |  |  |  | 4.4 |  |  |  |  |  |  | 4.4 |
|  |  | 2 | estimate |  |  |  |  | 0.1 | 2.9 |  |  |  |  |  |  | 2.9 |
|  |  |  | S.E. |  |  |  |  | 0.1 | 2.9 |  |  |  |  |  |  | 2.9 |
|  |  |  | Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 |
|  |  |  | S.E. | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| Dogfish | July | 1 | estimate |  |  |  |  |  |  |  |  |  | 10.7 |  |  | 10.7 |
|  |  |  | S.E. |  |  |  |  |  |  |  |  |  | 12.0 |  |  | 12.0 |
|  |  | 2 | estimate |  | 5.3 |  |  |  |  |  |  |  |  |  |  | 5.3 |
|  |  |  | S.E. |  | 5.5 |  |  |  |  |  |  |  |  |  |  | 5.5 |
|  |  |  | Total | 0.0 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 16.0 |
|  |  |  | S.E. | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 13.2 |
| Greenling | June | 1 | estimate |  | 2.6 | 10.5 |  | 0.2 |  |  |  |  |  |  |  | 13.2 |
|  |  |  | S.E. |  | 2.8 | 11.1 |  | 0.2 |  |  |  |  |  |  |  | 11.4 |
|  |  | 2 | estimate |  | 2.0 |  |  |  |  |  | 3.5 |  |  |  |  | 5.4 |
|  |  |  | S.E. |  | 2.0 |  |  |  |  |  | 3.7 |  |  |  |  | 4.2 |
|  | July | 1 | estimate |  |  | 6.2 |  | 0.2 | 13.1 | 3.1 | 2.6 |  |  |  | 25.8 | 51.1 |
|  |  |  | S.E. |  |  | 6.4 |  | 0.3 | 8.1 | 4.0 | 2.8 |  |  |  | 18.9 | 22.1 |
|  |  | 2 | estimate |  |  |  |  | 0.1 | 1.9 |  |  |  |  | 5.6 |  | 7.6 |
|  |  |  | S.E. |  |  |  |  | 0.1 | 2.0 |  |  |  |  | 6.7 |  | 6.9 |
|  | August | 1 | estimate | 1.7 | 2.8 |  | 11.6 |  |  |  |  |  |  |  |  | 16.2 |
|  |  |  | S.E. | 2.8 | 3.2 |  | 12.3 |  |  |  |  |  |  |  |  | 13.0 |
|  |  | 2 | estimate |  |  |  |  |  |  | 0.6 |  |  |  | 2.0 |  | 2.5 |
|  |  |  | S.E. |  |  |  |  |  |  | 0.8 |  |  |  | 2.8 |  | 2.9 |
|  |  |  | Total | 1.7 | 7.3 | 16.7 | 11.6 | 0.5 | 15.0 | 3.7 | 6.0 | 0.0 | 0.0 | 7.5 | 25.8 | 96.0 |
|  |  |  | S.E. | 2.8 | 4.7 | 12.8 | 12.3 | 0.4 | 8.4 | 4.0 | 4.6 | 0.0 | 0.0 | 7.2 | 18.9 | 29.3 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

| Unknown Groundfish | June | 1 | estimate |  |  | 5.2 |  | 0.3 | 10.1 | 20.8 |  |  |  |  |  | 36.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | S.E. (standard error) |  |  | 5.5 |  | 0.4 | 10.8 | 17.7 |  |  |  |  |  | 21.5 |
|  |  | 2 | estimate |  |  |  | 1.1 | 0.0 |  |  |  |  |  |  |  | 1.1 |
|  |  |  | S.E. |  |  |  | 1.3 | 0.1 |  |  |  |  |  |  |  | 1.3 |
|  | July | 1 | estimate |  |  | 34.2 | 10.5 | 0.9 | 42.0 |  | 10.2 |  | 2.0 |  |  | 99.8 |
|  |  |  | S.E. |  |  | 23.8 | 9.3 | 1.1 | 29.3 |  | 7.1 |  | 0.0 |  |  | 39.6 |
|  |  | 2 | estimate |  |  | 5.2 |  |  |  |  |  |  | 2.0 |  |  | 7.2 |
|  |  |  | S.E. |  |  | 5.2 |  |  |  |  |  |  | 0.0 |  |  | 5.2 |
|  | August | 1 | estimate |  |  |  | 5.8 |  | 23.0 |  |  |  |  |  |  | 28.8 |
|  |  |  | S.E. |  |  |  | 6.1 |  | 26.4 |  |  |  |  |  |  | 27.1 |
|  |  | 2 | estimate |  |  |  | 4.0 | 0.7 | 20.0 | 0.6 | 3.1 |  |  | 2.0 |  | 30.3 |
|  |  |  | S.E. |  |  |  | 4.1 | 0.9 | 20.6 | 0.8 | 3.2 |  |  | 2.8 |  | 21.4 |
|  |  |  | Total | 0.0 | 0.0 | 44.6 | 21.4 | 2.0 | 95.1 | 21.4 | 13.4 | 0.0 | 4.0 | 2.0 | 0.0 | 203.7 |
|  |  |  | S.E. | 0.0 | 0.0 | 25.0 | 11.9 | 1.5 | 45.8 | 17.7 | 7.8 | 0.0 | 0.0 | 2.8 | 0.0 | 57.0 |
| Pacific cod | June | 2 | estimate |  |  |  | 1.1 | 0.0 |  |  |  |  |  |  |  | 1.1 |
|  |  |  | S.E. |  |  |  | 1.3 | 0.1 |  |  |  |  |  |  |  | 1.3 |
|  | July | 1 | estimate |  |  |  |  |  |  |  | 10.2 |  |  |  |  | 10.2 |
|  |  |  | S.E. |  |  |  |  |  |  |  | 8.0 |  |  |  |  | 8.0 |
|  |  | 2 | estimate |  |  | 2.6 |  |  |  |  |  |  | 8.4 |  |  | 11.0 |
|  |  |  | S.E. |  |  | 2.6 |  |  |  |  |  |  | 8.7 |  |  | 9.1 |
|  | August | 2 | estimate |  | 2.0 |  | 2.0 | 0.1 |  |  |  |  |  | 7.9 |  | 12.0 |
|  |  |  | S.E. |  | 2.1 |  | 2.1 | 0.1 |  |  |  |  |  | 11.1 |  | 11.5 |
|  | September | 2 | estimate |  | 10.8 | 10.8 |  |  |  |  |  |  |  |  |  | 21.6 |
|  |  |  | S.E. |  | 10.8 | 10.9 |  |  |  |  |  |  |  |  |  | 15.4 |
|  |  |  | Total | 0.0 | 12.8 | 13.4 | 3.1 | 0.1 | 0.0 | 0.0 | 10.2 | 0.0 | 8.4 | 7.9 | 0.0 | 56.0 |
|  |  |  | S.E. | 0.0 | 11.0 | 11.3 | 2.4 | 0.1 | 0.0 | 0.0 | 8.0 | 0.0 | 8.7 | 11.1 | 0.0 | 22.8 |
| Rock sole | June | 1 | estimate |  |  | 5.2 | 3.7 | 0.2 |  |  |  |  |  |  |  | 9.1 |
|  |  |  | S.E. |  |  | 5.5 | 4.3 | 0.2 |  |  |  |  |  |  |  | 7.0 |
|  |  | 2 | estimate |  | 2.0 |  |  |  |  |  |  |  |  |  |  | 2.0 |
|  |  |  | S.E. |  | 2.0 |  |  |  |  |  |  |  |  |  |  | 2.0 |
|  | August | 2 | estimate |  | 4.1 |  | 2.0 | 0.1 |  | 1.1 |  |  |  |  |  | 7.2 |
|  |  |  | S.E. |  | 4.2 |  | 2.1 | 0.1 |  | 1.7 |  |  |  |  |  | 5.0 |
|  | September | 2 | estimate |  |  |  |  | 0.3 | 1.9 |  |  |  |  |  |  | 2.2 |
|  |  |  | S.E. |  |  |  |  | 0.5 | 2.5 |  |  |  |  |  |  | 2.5 |
|  |  |  | Total | 0.0 | 6.0 | 5.2 | 5.7 | 0.6 | 1.9 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.5 |
|  |  |  | S.E. | 0.0 | 4.6 | 5.5 | 4.8 | 0.5 | 2.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

| Sablefish | September | 2 | estimate |  | 8.6 | 8.6 |  | 1.0 | 5.7 |  |  |  |  |  |  | 23.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | S.E. (standard error) |  | 8.6 | 8.8 |  | 1.5 | 7.4 |  |  |  |  |  |  | 14.4 |
| Starry flounder | June | 2 | estimate |  | 3.9 |  |  |  |  |  |  |  |  |  |  | 3.9 |
|  |  |  | S.E. |  | 2.9 |  |  |  |  |  |  |  |  |  |  | 2.9 |
|  | July | 2 | estimate |  | 2.6 |  |  |  |  |  |  |  |  |  |  | 2.6 |
|  |  |  | S.E. |  | 2.7 |  |  |  |  |  |  |  |  |  |  | 2.7 |
|  | August | 1 | estimate |  |  |  | 2.9 |  | 7.7 |  |  |  |  |  |  | 10.6 |
|  |  |  | S.E. |  |  |  | 3.1 |  | 8.8 |  |  |  |  |  |  | 9.3 |
|  |  |  | Total | 0.0 | 6.6 | 0.0 | 2.9 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.1 |
|  |  |  | S.E. | 0.0 | 4.0 | 0.0 | 3.1 | 0.0 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ALL-TOTAL: | 1.7 | 52.7 | 88.5 | 44.7 | 4.1 | 132.1 | 26.2 | 29.6 | 0.0 | 23.1 | 21.4 | 25.8 | 450 |
|  |  |  | S.E.: | 2.8 | 18.0 | 32.0 | 18.2 | 2.2 | 48.3 | 18.2 | 12.1 | 0.0 | 14.8 | 14.7 | 18.9 | 73 |

## Other Groundfish Released

| Month | $\frac{\otimes}{7}$ | Data | SUBAREA |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A | $B$ | C | D | $E$ | $F$ | G | H | I | J | $K$ | $L$ | Sub <br> Total |
| June | 1 | estimate | 0.2 | 15.4 | 5.2 | 7.4 | 0.5 | 5.1 |  | 52.8 |  |  | 5.0 |  | 92 |
|  |  | S.E. (standard error) | 0.3 | 16.6 | 5.5 | 8.6 | 0.6 | 5.4 |  | 65.1 |  |  | 0.0 |  | 68 |
|  | 2 | estimate |  | 3.9 |  | 17.8 | 0.7 | 1.9 |  | 10.4 |  |  |  |  | 35 |
|  |  | S.E. |  | 4.0 |  | 20.2 | 1.0 | 2.0 |  | 11.1 |  |  |  |  | 23 |
|  |  | Total - June | 0.2 | 19.3 | 5.2 | 25.2 | 1.2 | 7.0 | 0.0 | 63.2 | 0.0 | 0.0 | 5.0 | 0.0 | 126 |
|  |  | S.E. - June | 0.3 | 17.0 | 5.5 | 22.0 | 1.2 | 5.8 | 0.0 | 66.0 | 0.0 | 0.0 | 0.0 | 0.0 | 72 |
| July | 1 | estimate |  | 5.1 | 65.2 | 34.0 | 2.0 | 84.0 | 24.9 | 63.9 |  |  |  |  | 279 |
|  |  | S.E. |  | 5.7 | 56.9 | 35.8 | 2.9 | 85.7 | 31.6 | 64.1 |  |  |  |  | 130 |
|  | 2 | estimate |  | 10.6 | 28.4 | 10.4 | 0.6 | 7.7 |  |  |  | 1.0 |  |  | 59 |
|  |  | S.E. |  | 10.9 | 24.7 | 7.9 | 0.7 | 7.8 |  |  |  | 0.0 |  |  | 29 |
|  |  | Total - July | 0.0 | 15.6 | 93.6 | 44.4 | 2.7 | 91.6 | 24.9 | 63.9 | 0.0 | 1.0 | 0.0 | 0.0 | 338 |
|  |  | S.E. - July | 0.0 | 12.3 | 62.0 | 36.7 | 3.0 | 86.0 | 31.6 | 64.1 | 0.0 | 0.0 | 0.0 | 0.0 | 134 |
| August | 1 | estimate |  | 22.6 |  | 8.7 |  |  | 0.3 | 9.2 |  |  |  |  | 41 |
|  |  | S.E. |  | 19.3 |  | 9.2 |  |  | 0.4 | 11.2 |  |  |  |  | 24 |
|  | 2 | estimate |  | 38.5 | 28.8 | 13.9 | 0.9 | 14.3 |  |  |  |  | 14.9 |  | 111 |
|  |  | S.E. |  | 25.7 | 29.5 | 14.4 | 1.2 | 14.7 |  |  |  |  | 16.7 |  | 47 |
|  |  | Total-August | 0.0 | 61.0 | 28.8 | 22.6 | 0.9 | 14.3 | 0.3 | 9.2 | 0.0 | 0.0 | 14.9 | 0.0 | 152 |
|  |  | S.E. - August | 0.0 | 32.2 | 29.5 | 17.1 | 1.2 | 14.7 | 0.4 | 11.2 | 0.0 | 0.0 | 16.7 | 0.0 | 53 |
| September | 1 | estimate |  |  |  | 83.4 | 38.4 | 39.0 |  |  |  |  |  |  | 161 |
|  |  | S.E. |  |  |  | 137.4 | 63.3 | 64.3 |  |  |  |  |  |  | 164 |
|  | 2 | estimate |  | 12.9 | 12.9 | 55.4 | 10.8 | 64.6 | 3.5 | 10.6 | 87.0 | 27.0 | 17.4 |  | 302 |
|  |  | S.E. |  | 13.0 | 13.1 | 59.8 | 17.0 | 83.4 | 4.1 | 11.5 | 87.1 | 38.3 | 19.7 |  | 144 |
|  |  | Total - September | 0.0 | 12.9 | 12.9 | 138.8 | 49.2 | 103.6 | 3.5 | 10.6 | 87.0 | 27.0 | 17.4 | 0.0 | 463 |
|  |  | S.E. - September | 0.0 | 13.0 | 13.1 | 149.9 | 65.6 | 105.3 | 4.1 | 11.5 | 87.1 | 38.3 | 19.7 | 0.0 | 219 |
|  |  | Total - 2009 | 0 | 109 | 141 |  | 54 | 217 | 29 | 147 | 87 | 28 | 37 | 0 | 1079 |
|  |  | S.E. - 2009 | 0 | 41 | 70 |  | 66 | 137 | 32 | 93 | 87 | 38 | 26 | 0 | 271 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries


Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries


## Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

|  |  | 2 | 0.00 | 0.00 | 0.00 |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cabezon | August | 2 |  |  |  |  |  |  |  | 0.01 | 0.04 |  |  |  |
| Dogfish | June | 1 |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
|  | July | 1 |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |
|  |  | 2 |  |  |  |  | 0.05 | 0.00 | 0.00 | 0.00 |  |  |  |  |
|  | August | 1 |  |  |  |  | 0.00 |  | 0.00 | 0.00 |  | 0.00 | 0.00 |  |
|  |  | 2 |  |  | 0.00 |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |
|  | September | 1 |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 |  |  |  |
|  |  | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Greenling | June | 1 |  |  |  |  | 0.02 | 0.05 |  |  |  |  |  |  |
|  |  | 2 |  |  |  |  | 0.01 |  |  |  |  |  |  |  |
|  | July | 1 |  |  |  |  |  | 0.02 |  | 0.02 | 0.03 |  |  | 0.25 |
|  |  | 2 |  |  | 0.25 |  |  |  |  | 0.01 | 0.01 |  |  |  |
|  | August | 1 |  |  |  | 0.11 | 0.03 |  |  |  |  |  |  |  |
|  |  | 2 |  |  | 0.05 |  |  |  |  |  |  |  |  |  |
| Groundfish | June | 1 |  |  |  |  |  | 0.03 |  |  |  | 0.33 |  | 0.14 |
|  |  | 2 |  |  |  |  | 0.00 |  | 0.03 | 0.01 |  |  | 0.00 | 0.00 |
|  | July | 1 |  |  |  |  |  | 0.10 | 0.08 | 0.13 | 0.17 |  | 0.04 |  |
|  |  | 2 |  |  |  |  |  | 0.03 |  | 0.00 | 0.00 |  |  |  |
|  | August | 1 |  |  |  |  |  |  |  | 0.05 | 0.13 |  |  |  |
|  |  | 2 |  |  | 0.05 |  |  |  |  |  |  | 0.05 | 0.06 |  |
| Pacific cod | June | 2 |  |  |  |  |  |  | 0.03 | 0.01 |  |  |  |  |
|  | July | 2 |  |  |  |  |  | 0.01 |  |  |  |  |  |  |
|  | August | 2 |  |  |  |  | 0.02 |  | 0.02 | 0.01 |  |  |  |  |
|  | September | 2 | 0.00 | 0.00 | 0.00 | 0.15 | 0.15 | 0.15 | 0.00 | 0.00 | 0.00 |  |  |  |
| Rock sole | June | 1 |  |  |  | 0.00 | 0.00 | 0.03 |  |  |  |  |  |  |
|  |  | 2 |  |  |  |  | 0.01 |  | 0.00 | 0.00 |  |  |  |  |
|  | July | 1 |  |  |  |  |  |  |  | 0.00 | 0.00 |  | 0.00 |  |
|  |  | 2 |  |  |  |  |  | 0.00 |  |  |  |  |  |  |
|  | August | 2 |  |  |  |  | 0.05 |  | 0.02 | 0.01 |  |  |  |  |
|  | September | 2 |  |  |  |  |  |  |  | 0.09 | 0.09 |  |  |  |
| Sablefish | September | 2 |  |  |  | 0.12 | 0.12 | 0.12 |  | 0.27 | 0.27 |  |  |  |
| Starry flounder | June | 1 |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |  |
|  |  | 2 |  |  |  |  | 0.02 |  | 0.00 | 0.00 |  |  |  |  |
|  | July | 1 |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
|  |  | 2 |  |  |  |  | 0.02 |  |  |  |  |  |  |  |
|  | August | 1 |  |  |  |  |  |  | 0.02 | 0.01 |  |  |  |  |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries
Rockfish Retained

| Species | Month |  | Data | B | C | D | $E$ | SUBAREA |  | H | I | J | $K$ | $L$ | Sub Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| Black | June | 1 | estimate | 7.7 |  | 59.2 | 4.2 | 45.5 |  | 4.4 | 9.2 | 34.6 | 9.6 |  | 174.4 |
|  |  |  | S.E. (standard error) | 6.3 |  | 49.3 | 2.7 | 23.2 |  | 5.4 | 6.8 | 24.9 | 9.6 |  | 61.7 |
|  |  | 2 | estimate | 2.0 |  |  | 0.3 | 17.4 |  | 1.7 | 3.2 | 10.6 | 0.2 |  | 35.4 |
|  |  |  | S.E. | 2.0 |  |  | 0.5 | 16.0 |  | 1.8 | 3.5 | 11.1 | 0.2 |  | 20.0 |
|  | July | 1 | estimate |  |  | 13.1 | 1.6 | 57.7 | 6.2 | 12.8 | 7.7 | 13.7 |  | 32.3 | 145.1 |
|  |  |  | S.E. |  |  | 14.4 | 1.8 | 37.3 | 7.9 | 9.5 | 10.0 | 12.0 |  | 24.1 | 50.8 |
|  |  | 2 | estimate |  | 2.6 |  | 3.1 | 74.8 |  | 7.5 |  | 11.0 |  |  | 99.1 |
|  |  |  | S.E. |  | 2.6 |  | 2.5 | 43.0 |  | 5.6 |  | 0.0 |  |  | 43.5 |
|  | August | 1 | estimate 3.4 | 5.6 | 50.9 | 2.9 |  | 84.3 | 2.8 |  |  | 23.7 | 0.6 | 26.0 | 200.3 |
|  |  |  | S.E. 5.5 | 6.4 | 42.6 | 3.1 |  | 61.1 | 3.6 |  |  | 28.3 | 0.9 | 33.8 | 87.2 |
|  |  | 2 | estimate |  |  |  | 0.1 | 2.9 | 16.4 | 12.6 |  |  |  |  | 31.9 |
|  |  |  | S.E. |  |  |  | 0.1 | 2.9 | 18.6 | 12.9 |  |  |  |  | 22.8 |
|  | September | 1 | estimate |  |  | 2.3 | 1.0 | 1.1 |  |  |  |  |  |  | 4.3 |
|  |  |  | S.E. |  |  | 3.7 | 1.7 | 1.7 |  |  |  |  |  |  | 4.4 |
|  |  |  | Total 3.4 | 15.3 | 53.4 | 77.4 | 10.4 | 283.7 | 25.5 | 39.0 | 20.1 | 93.6 | 10.5 | 58.3 | 690.6 |
|  |  |  | S.E. 5.5 | 9.2 | 42.7 | 51.5 | 4.5 | 88.2 | 20.6 | 17.9 | 12.6 | 41.1 | 9.7 | 41.6 | 129.7 |
| Blue | July | 1 | estimate |  |  |  |  |  |  |  |  |  |  | 12.9 | 12.9 |
|  |  |  | S.E. |  |  |  |  |  |  |  |  |  |  | 13.4 | 13.4 |
|  | August | 2 | estimate |  |  |  |  |  | 3.4 | 18.9 |  |  |  |  | 22.3 |
|  |  |  | S.E. |  |  |  |  |  | 5.0 | 19.3 |  |  |  |  | 20.0 |
|  |  |  | Total 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 18.9 | 0.0 | 0.0 | 0.0 | 12.9 | 35.2 |
|  |  |  | S.E. 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 19.3 | 0.0 | 0.0 | 0.0 | 13.4 | 24.0 |
| Canary | June | 1 | estimate |  |  |  | 0.3 | 10.1 |  |  |  |  |  |  | 10.4 |
|  |  |  | S.E. |  |  |  | 0.4 | 10.8 |  |  |  |  |  |  | 10.9 |
|  |  | 2 | estimate | 2.0 |  |  |  |  |  |  |  |  |  |  | 2.0 |
|  |  |  | S.E. | 2.0 |  |  |  |  |  |  |  |  |  |  | 2.0 |
|  | July | 1 | estimate |  |  |  |  |  |  | 2.6 |  |  |  |  | 2.6 |
|  |  |  | S.E. |  |  |  |  |  |  | 2.8 |  |  |  |  | 2.8 |
|  | August | 2 | estimate |  |  |  |  |  |  |  |  | 4.6 |  |  | 4.6 |
|  |  |  | S.E. |  |  |  |  |  |  |  |  | 4.7 |  |  | 4.7 |
|  |  |  | Total 0.0 | 2.0 | 0.0 | 0.0 | 0.3 | 10.1 | 0.0 | 2.6 | 0.0 | 4.6 | 0.0 | 0.0 | 19.6 |
|  |  |  | S.E. 0.0 | 2.0 | 0.0 | 0.0 | 0.4 | 10.8 | 0.0 | 2.8 | 0.0 | 4.7 | 0.0 | 0.0 | 12.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 82 |  |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries


Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

|  |  | S.E. (standard error) |  |  | 48.9 | 11.3 | 2.1 | 30.9 | 32.3 | 40.7 | 7.7 | 13.9 | 76.8 | 18.9 | 112.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 | estimate |  |  | 2.6 | 5.2 | 1.4 | 28.8 |  | 27.6 | 9.2 | 22.9 |  |  | 97.6 |
|  |  | S.E. |  |  | 2.6 | 4.0 | 1.0 | 14.8 |  | 14.4 | 7.1 | 12.2 |  |  | 25.5 |
| August | 1 | estimate | 5.1 | 47.9 | 6.8 | 5.8 |  | 130.3 | 2.0 | 32.2 | 45.0 | 106.5 | 1.3 | 69.4 | 452.4 |
|  |  | S.E. | 6.8 | 48.7 | 7.9 | 4.4 |  | 72.3 | 2.5 | 28.0 | 31.5 | 93.1 | 1.8 | 90.3 | 162.3 |
|  | 2 | estimate |  | 2.0 |  | 7.9 | 1.5 | 42.8 | 13.6 | 53.4 | 66.4 |  | 13.8 |  | 201.6 |
|  |  | S.E. |  | 2.1 |  | 5.1 | 1.4 | 23.3 | 13.6 | 36.6 | 67.1 |  | 17.5 |  | 83.2 |
| September | 1 | estimate |  |  |  |  |  |  | 8.1 | 30.4 | 49.3 | 52.2 | 27.6 | 16.1 | 183.7 |
|  |  | S.E. |  |  |  |  |  |  | 13.3 | 34.8 | 53.8 | 75.6 | 35.1 | 16.1 | 107.2 |
|  | 2 | estimate |  | 2.2 | 2.2 |  | 4.1 | 24.7 | 10.4 | 31.8 |  |  |  |  | 75.4 |
|  |  | S.E. |  | 2.2 | 2.2 |  | 6.1 | 29.8 | 10.5 | 29.2 |  |  |  |  | 43.6 |
|  |  | Total | 5.1 | 54.1 | 142.6 | 109.4 | 15.8 | 424.1 | 82.9 | 292.8 | 209.4 | 264.9 | 127.2 | 111.4 | 1839.4 |
|  |  | S.E. | 6.8 | 48.8 | 57.4 | 55.1 | 7.8 | 105.3 | 45.5 | 81.3 | 93.3 | 124.7 | 86.9 | 93.6 | 262.9 |
| June | 1 | estimate |  |  | 5.2 |  | 0.7 | 10.1 |  |  |  |  |  |  | 16.0 |
|  |  | S.E. |  |  | 5.5 |  | 0.6 | 10.8 |  |  |  |  |  |  | 12.2 |
|  | 2 | estimate |  |  |  |  | 0.1 | 3.9 |  |  |  |  |  |  | 3.9 |
|  |  | S.E. |  |  |  |  | 0.1 | 2.8 |  |  |  |  |  |  | 2.8 |
| July | 1 | estimate |  |  |  |  | 0.0 | 2.6 |  |  |  |  |  |  | 2.7 |
|  |  | S.E. |  |  |  |  | 0.1 | 2.7 |  |  |  |  |  |  | 2.7 |
| August | 1 | estimate |  |  | 13.6 |  |  | 3.8 | 0.1 | 4.6 |  |  |  |  | 22.1 |
|  |  | S.E. |  |  | 15.8 |  |  | 4.4 | 0.2 | 5.6 |  |  |  |  | 17.4 |
|  | 2 | estimate |  |  |  |  |  |  | 0.6 | 3.1 |  |  |  |  | 3.7 |
|  |  | S.E. |  |  |  |  |  |  | 0.8 | 3.2 |  |  |  |  | 3.3 |
|  |  | Total | 0.0 | 0.0 | 18.8 | 0.0 | 0.8 | 20.4 | 0.7 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 48.5 |
|  |  | S.E. | 0.0 | 0.0 | 16.8 | 0.0 | 0.6 | 12.3 | 0.9 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 21.8 |
| June | 1 | estimate |  | 10.3 | 57.7 | 107.2 | 10.0 | 80.9 | 13.9 | 4.4 |  | 33.6 | 9.2 |  | 327.3 |
|  |  | S.E. |  | 8.0 | 51.4 | 81.6 | 6.3 | 63.3 | 15.5 | 5.4 |  | 33.2 | 10.0 |  | 122.0 |
|  | 2 | estimate |  | 7.8 | 15.6 | 4.4 | 0.7 | 27.1 |  |  | 4.0 | 6.3 | 0.1 |  | 66.0 |
|  |  | S.E. |  | 5.0 | 13.3 | 3.7 | 0.8 | 20.4 |  |  | 0.0 | 5.6 | 0.1 |  | 25.8 |
| July | 1 | estimate |  |  | 111.8 | 31.4 | 4.2 | 194.2 | 3.1 | 28.1 | 104.2 | 151.4 |  | 135.7 | 764.2 |
|  |  | S.E. |  |  | 48.9 | 23.6 | 4.6 | 101.6 | 4.0 | 19.8 | 135.0 | 110.4 |  | 100.3 | 232.8 |
|  | 2 | estimate | 0.6 | 13.2 | 41.3 | 57.2 | 5.5 | 72.9 |  | 77.8 |  | 15.4 | 5.6 | 21.9 | 311.3 |
|  |  | S.E. | 0.8 | 7.3 | 19.6 | 55.6 | 3.9 | 45.7 |  | 53.2 |  | 8.7 | 6.7 | 26.2 | 96.3 |
| August | 1 | estimate |  | 2.8 | 17.0 | 29.1 |  | 107.3 | 3.5 | 73.7 |  | 35.5 | 5.1 | 17.4 | 291.3 |
|  |  | S.E. |  | 3.2 | 16.8 | 21.3 |  | 79.5 | 4.0 | 65.0 |  | 42.5 | 5.6 | 22.6 | 116.8 |
|  | 2 | estimate |  | 20.3 | 28.8 | 21.8 | 1.5 | 22.8 | 14.7 | 62.9 | 33.2 | 18.5 | 25.7 |  | 250.2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 84 |  |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

| September | 2 | S.E. |  |  | 20.9 | 20.5 | 11.4 | 1.3 | 12.7 | 15.2 | 42.0 | 33.6 | 11.3 | 30.4 |  | 73.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | estimate |  |  | 10.8 | 10.8 |  |  |  | 17.4 | 53.0 | 23.7 | 7.4 | 4.8 |  | 127.8 |
|  |  | S.E. |  |  | 6.3 | 6.5 |  |  |  | 11.2 | 28.5 | 12.8 | 7.1 | 3.3 |  | 35.3 |
|  |  |  | Total | 0.6 | 65.2 | 282.9 | 251.2 | 21.8 | 505.2 | 52.6 | 299.8 | 165.2 | 268.2 | 50.4 | 174.9 | 2138.0 |
|  |  |  | S.E. | 0.8 | 25.1 | 79.6 | 104.4 | 8.9 | 152.7 | 25.1 | 100.3 | 139.7 | 124.0 | 33.3 | 106.1 | 315.0 |


| Tiger | June | 1 | estimate |  |  |  | 3.7 | 0.2 |  |  |  |  |  |  |  | 3.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | S.E. |  |  |  | 4.3 | 0.2 |  |  |  |  |  |  |  | 4.3 |
|  |  | 2 | estimate |  |  |  |  | 0.0 | 1.9 |  |  |  |  |  |  | 2.0 |
|  |  |  | S.E. |  |  |  |  | 0.1 | 2.0 |  |  |  |  |  |  | 2.0 |
|  | July | 1 | estimate |  |  |  |  | 0.5 | 28.9 |  | 15.3 |  |  |  |  | 44.7 |
|  |  |  | S.E. |  |  |  |  | 0.6 | 13.8 |  | 9.4 |  |  |  |  | 16.7 |
|  |  | 2 | estimate |  |  |  |  | 0.1 | 1.9 |  | 2.5 |  | 8.4 |  |  | 12.9 |
|  |  |  | S.E. |  |  |  |  | 0.1 | 2.0 |  | 2.5 |  | 8.7 |  |  | 9.3 |
|  | August | 1 | estimate |  |  |  |  |  | 11.5 |  |  | 7.5 |  |  |  | 19.0 |
|  |  |  | S.E. |  |  |  |  |  | 10.3 |  |  | 7.6 |  |  |  | 12.8 |
|  |  | 2 | estimate |  |  |  |  | 0.1 | 2.9 | 4.0 |  |  |  |  |  | 6.9 |
|  |  |  | S.E. |  |  |  |  | 0.1 | 2.9 | 5.3 |  |  |  |  |  | 6.1 |
|  |  |  | Total | 0.0 | 0.0 | 0.0 | 3.7 | 0.9 | 47.1 | 4.0 | 17.8 | 7.5 | 8.4 | 0.0 | 0.0 | 89.4 |
|  |  |  | S.E. | 0.0 | 0.0 | 0.0 | 4.3 | 0.6 | 17.6 | 5.3 | 9.7 | 7.6 | 8.7 | 0.0 | 0.0 | 24.2 |
| Yellow Eye (Red | June | 1 | estimate S.E. (standard |  |  | 10.5 | 3.7 | 1.7 | 30.3 |  | 4.4 |  | 22.1 | 4.8 |  | 77.5 |
| Snapper) |  |  | error) |  |  | 11.1 | 4.3 | 1.0 | 18.2 |  | 5.4 |  | 22.1 | 6.7 |  | 32.2 |
|  |  | 2 | estimate |  | 2.0 |  |  | 0.3 | 17.4 |  | 5.2 |  | 23.2 | 2.3 |  | 50.3 |
|  |  |  | S.E. |  | 2.0 |  |  | 0.4 | 8.2 |  | 4.1 |  | 13.7 | 0.2 |  | 16.7 |
|  | July | 1 | estimate |  |  | 6.2 |  | 1.8 | 102.3 | 40.4 | 28.1 | 7.7 | 13.7 | 272.1 | 90.5 | 562.8 |
|  |  |  | S.E. |  |  | 6.4 |  | 1.9 | 42.3 | 42.6 | 15.4 | 10.0 | 8.9 | 288.0 | 68.9 | 302.9 |
|  |  | 2 | estimate |  |  | 5.2 |  | 1.3 | 30.7 |  | 12.5 | 1.0 | 86.3 |  | 16.4 | 153.4 |
|  |  |  | S.E. |  |  | 3.7 |  | 0.9 | 12.8 |  | 6.6 | 0.0 | 62.1 |  | 15.1 | 65.6 |
|  | August | 1 | estimate |  | 5.6 | 40.7 | 5.8 |  | 141.8 | 3.1 | 41.4 |  | 60.2 |  | 121.5 | 420.1 |
|  |  |  | S.E. |  | 6.4 | 31.9 | 4.4 |  | 81.7 | 3.5 | 33.8 |  | 44.6 |  | 117.4 | 157.1 |
|  |  | 2 | estimate |  |  | 6.6 |  | 0.9 | 34.3 | 8.5 | 22.0 | 11.1 | 27.7 | 11.9 |  | 123.0 |
|  |  |  | S.E. |  |  | 7.3 |  | 0.9 | 18.4 | 8.5 | 16.1 | 11.2 | 14.4 | 12.1 |  | 34.7 |
|  | September | 2 | estimate |  | 2.2 | 2.2 |  | 0.6 | 3.8 | 6.9 | 21.2 |  |  |  |  | 36.9 |
|  |  |  | S.E. |  | 2.2 | 2.2 |  | 1.0 | 4.9 | 4.5 | 11.4 |  |  |  |  | 13.5 |
|  |  |  | Total | 0.0 | 9.8 | 71.4 | 9.5 | 6.6 | 360.6 | 58.9 | 134.9 | 19.8 | 233.2 | 291.0 | 228.3 | 1424.1 |
|  |  |  | S.E. | 0.0 | 7.0 | 35.4 | 6.2 | 2.7 | 96.9 | 43.8 | 43.1 | 15.0 | 82.5 | 288.3 | 136.9 | 351.4 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

| Yellow Tail | June | 1 | estimate |  |  |  | 7.4 | 0.3 |  |  |  |  |  |  |  | 7.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | S.E. |  |  |  | 8.6 | 0.4 |  |  |  |  |  |  |  | 8.6 |
|  | July | 1 | estimate |  |  |  |  | 0.3 | 15.7 | 6.2 |  |  |  |  |  | 22.2 |
|  |  |  | S.E. |  |  |  |  | 0.5 | 16.1 | 7.9 |  |  |  |  |  | 17.9 |
|  |  | 2 | estimate |  |  |  | 2.6 | 0.1 |  |  |  |  |  |  |  | 2.7 |
|  |  |  | S.E. |  |  |  | 2.8 | 0.1 |  |  |  |  |  |  |  | 2.8 |
|  |  |  | Total | 0.0 | 0.0 | 0.0 | 10.0 | 0.7 | 15.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.6 |
|  |  |  | S.E. | 0.0 | 0.0 | 0.0 | 9.1 | 0.6 | 16.1 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.1 |
|  |  |  | ALL-TOTAL | 9.2 | 173.6 | 587.1 | 471.6 | 59.6 | 1758.8 | 239.3 | 850.6 | 456.9 | 945.6 | 488.7 | 607.5 | 6649 |
|  |  |  | S.E. | 8.8 | 60.8 | 114.7 | 129.7 | 13.0 | 230.8 | 72.0 | 140.4 | 172.1 | 204.2 | 303.4 | 202.4 | 563 |

## Rockfish Released

| Month | $\frac{\otimes}{5}$ |  | A | $B$ | C | D | $E$ | SUBAREA |  | H | I | J | K | $L$ | Sub <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Data |  |  |  |  |  | $F$ | G |  |  |  |  |  |  |
| June | 1 | estimate |  | 15.4 | 5.2 | 3.7 | 3.3 | 96.1 | 13.9 | 8.8 | 19.6 | 14.5 | 10.6 |  | 191 |
|  |  | S.E. (standard error) |  | 10.6 | 5.5 | 4.3 | 3.7 | 99.1 | 15.5 | 10.8 | 15.6 | 11.1 | 9.6 |  | 104 |
|  | 2 | estimate |  | 35.2 |  | 1.1 | 0.1 | 1.9 |  |  | 16.1 | 3.0 | 4.3 |  | 62 |
|  |  | S.E. |  | 24.4 |  | 1.3 | 0.1 | 2.0 |  |  | 17.4 | 0.0 | 0.4 |  | 30 |
|  |  | Total - June | 0.0 | 50.6 | 5.2 | 4.8 | 3.4 | 98.0 | 13.9 | 8.8 | 35.7 | 17.5 | 15.0 | 0.0 | 253 |
|  |  | S.E. - June | 0.0 | 26.6 | 5.5 | 4.5 | 3.7 | 99.1 | 15.5 | 10.8 | 23.4 | 11.1 | 9.6 | 0.0 | 108 |
| July | 1 | estimate |  |  | 28.0 |  | 0.3 | 15.7 | 6.2 | 12.8 | 3.0 | 7.3 | 2.0 |  | 75 |
|  |  | S.E. |  |  | 21.9 |  | 0.5 | 16.1 | 7.9 | 13.8 | 0.0 | 6.0 | 0.0 |  | 32 |
|  | 2 | estimate |  | 2.6 | 7.7 |  | 0.4 | 9.6 |  | 12.5 |  |  |  |  | 33 |
|  |  | S.E. |  | 2.7 | 7.9 |  | 0.5 | 9.8 |  | 12.6 |  |  |  |  | 18 |
|  |  | Total - July | 0.0 | 2.6 | 35.7 | 0.0 | 0.7 | 25.3 | 6.2 | 25.3 | 3.0 | 7.3 | 2.0 | 0.0 | 108 |
|  |  | S.E. - July | 0.0 | 2.7 | 23.3 | 0.0 | 0.7 | 18.8 | 7.9 | 18.7 | 0.0 | 6.0 | 0.0 | 0.0 | 37 |
| August | 1 | estimate |  |  |  |  |  |  |  |  |  |  | 6.0 |  | 6 |
|  |  | S.E. |  |  |  |  |  |  |  |  |  |  | 0.0 |  | 0 |
|  | 2 | estimate |  | 4.1 |  | 7.9 | 0.5 | 5.7 |  |  |  | 1.0 |  |  | 19 |
|  |  | S.E. |  | 3.0 |  | 5.9 | 0.6 | 5.9 |  |  |  | 0.0 |  |  | 9 |
|  |  | Total - August | 0.0 | 4.1 | 0.0 | 7.9 | 0.5 | 5.7 | 0.0 | 0.0 | 0.0 | 1.0 | 6.0 | 0.0 | 25 |
|  |  | S.E. - August | 0.0 | 3.0 | 0.0 | 5.9 | 0.6 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9 |
| September | 1 | estimate |  |  |  | 4.5 | 2.1 | 2.1 |  |  |  |  |  |  | 9 |
|  |  | S.E. |  |  |  | 7.4 | 3.4 | 3.5 |  |  |  |  |  |  | 9 |
|  | 2 | estimate |  | 4.3 | 4.3 |  |  |  | 0.9 | 2.6 |  |  |  |  | 12 |
|  |  | S.E. |  | 4.3 | 4.4 |  |  |  | 1.0 | 2.9 |  |  |  |  | 7 |
|  |  | Total - September | 0.0 | 4.3 | 4.3 | 4.5 | 2.1 | 2.1 | 0.9 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 21 |
|  |  | S.E. - September | 0.0 | 4.3 | 4.4 | 7.4 | 3.4 | 3.5 | 1.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 11 |
|  |  | Total - 2009 | 0 | 62 | 45 |  | 7 | 131 | 21 | 37 | 39 | 26 | 23 | 0 | 407 |
|  |  | S.E. - 2009 | 0 | 27 | 24 |  | 5 | 101 | 17 | 22 | 23 | 13 | 10 | 0 | 115 |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

Rockfish - CPUE


Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries


Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries

| Blue Rockfish |  | 2 |  |  |  |  |  |  |  |  | 0.76 | 0.13 | 6.25 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July | 1 |  |  |  |  |  |  |  |  |  |  | 0.12 |
|  | August | 2 |  |  |  |  |  |  |  |  | 0.16 | 0.19 |  |
| Canary | July | 1 |  |  |  |  |  |  |  |  |  | 0.01 |  |
|  | August | 2 |  | 0.08 |  |  |  |  |  |  |  |  |  |
| China | June | 1 |  |  |  |  |  |  | 0.03 | 0.05 |  |  |  |
|  |  | 2 |  |  |  |  |  |  |  |  |  | 0.86 | 0.50 |
|  | July | 1 |  |  |  |  |  |  | 0.05 | 0.05 | 0.14 | 0.06 | 0.12 |
|  | August | 1 | 0.31 | 0.17 |  |  |  |  | 0.06 | 0.07 | 0.09 | 0.09 | 0.14 |
|  |  | 2 |  | 0.08 |  |  |  |  | 0.02 | 0.03 | 0.03 |  | 0.25 |
| Copper | June | 1 |  | 0.29 | 0.12 |  |  |  | 0.03 | 0.05 |  |  |  |
|  |  | 2 |  |  |  |  |  |  | 0.05 | 0.06 |  |  |  |
|  | July | 1 |  |  |  | 1.00 |  |  | 0.02 | 0.02 |  |  |  |
|  |  | 2 |  |  |  |  |  |  | 0.05 | 0.06 |  |  |  |
|  | August | 1 |  |  |  |  |  |  | 0.02 | 0.02 |  |  |  |
| Quillback | June | 1 | 0.10 | 0.14 | 0.12 |  | 0.22 | 2.50 | 0.84 | 0.43 |  | 0.00 | 0.11 |
|  |  | 2 | 0.09 | 0.27 | 0.19 |  |  |  | 0.26 | 0.29 |  | 2.71 | 1.64 |
|  | July | 1 |  | 0.10 |  |  |  |  | 0.20 | 0.22 | 0.14 | 0.43 | 0.24 |
|  |  | 2 | 0.20 |  |  |  |  | 0.33 | 0.18 | 0.16 |  | 0.19 |  |
|  | August | 1 | 0.38 | 1.17 | 0.20 |  |  | 0.11 | 0.46 | 0.53 | 0.35 | 0.20 | 1.14 |
|  |  | 2 | 1.00 |  | 1.17 |  |  | 0.08 | 0.26 | 0.32 | 0.58 | 0.47 | 1.75 |
|  | September | 1 | 1.60 | 1.60 | 1.60 |  |  |  |  |  | 1.25 | 1.25 | 1.25 |
|  |  | 2 |  |  |  |  |  |  |  |  | 1.25 | 1.25 | 1.25 |
| Redstripe rockfish | June | 1 |  |  |  |  |  |  | 0.06 |  |  |  | 0.05 |
|  |  | 2 |  |  |  |  |  |  | 0.05 | 0.06 |  |  |  |
|  | July | 1 |  |  |  |  |  |  | 0.01 | 0.01 |  |  |  |
|  | August | 1 |  |  |  |  | 0.57 |  |  |  | 0.02 | 0.03 |  |
|  |  | 2 |  |  |  |  |  |  |  |  | 0.03 | 0.03 |  |
| Rockfish | June | 1 |  | 0.21 | 0.09 |  |  | 0.00 | 0.47 |  | 0.25 | 0.00 | 0.27 |
|  |  | 2 |  | 0.07 | 0.04 | 0.00 |  |  | 0.05 | 0.06 |  |  |  |
|  | July | 1 | 1.80 | 0.93 |  |  |  |  | 0.49 | 0.52 | 0.14 | 0.09 | 0.53 |
|  |  | 2 |  |  | 0.33 |  | 2.00 | 3.33 | 0.82 | 0.13 |  | 0.50 | 0.40 |
|  | August | 1 |  | 0.50 | 0.50 |  |  | 0.78 | 0.43 | 0.38 | 0.42 | 0.46 | 0.29 |
|  |  | 2 | 0.50 | 0.15 | 0.17 |  |  | 0.08 | 0.10 | 0.11 | 0.11 | 0.13 |  |
|  | September | 2 |  |  |  |  |  |  |  |  | 1.75 | 1.75 | 1.75 |
| Tiger | June | 1 |  |  |  |  |  | 0.17 | 0.03 |  |  |  |  |
|  |  | 2 |  |  |  |  |  |  | 0.05 | 0.06 |  |  |  |

Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries



Appendix D3 - Detailed Groundfish and Rockfish Catch, Release and CPUE summaries


## Chinook Biological Data Summary

*Note - Lodge biological data not included

| Length class | length freq | label |
| :---: | :---: | :--- |
| 10 | 31 | not measured |
| 490 | 3 | $<500$ |
| 590 | 33 | $5-600$ |
| 690 | 102 | $6-700$ |
| 790 | 151 | $7-800$ |
| 890 | 228 | $8-900$ |
| 990 | 133 | $9-1000$ |
| 1090 | 39 | $10-1100$ |
| 1190 | 2 | $11-1200$ |
| 1290 | 1 | $12-1300$ |
| 1390 | 0 | $14-1500$ |
|  | 0 | $>1500$ |


| Subarea | \# caught | Percent |
| :---: | :---: | :---: |
| 4 A | 0 | $0 \%$ |
| 4 B | 150 | $21 \%$ |
| 4 C | 23 | $3 \%$ |
| 4 D | 71 | $10 \%$ |
| 4 E | 0 | $0 \%$ |
| 4 F | 180 | $25 \%$ |
| 4 G | 20 | $3 \%$ |
| 4 H | 102 | $14 \%$ |
| 4 L | 4 | $1 \%$ |
| 3 l | 70 | $10 \%$ |
| 3 J | 98 | $14 \%$ |
| 3 K | 5 | $1 \%$ |
| total | 723 |  |


| Adipose marks |  |
| :--- | :---: |
| Marked | 31 |
| Unmarked | 406 |
| Unknown | 286 |


| Flesh colour |  |
| :--- | :---: |
| Red | 301 |
| White | 75 |
| Marble | 19 |
| Unknown | 328 |


| Gender |  |
| :--- | :---: |
| Male | 201 |
| Female | 196 |
| Not checked | 44 |
| Undeterminable | 281 |


| Scale samples |  |
| :--- | :---: |
| Yes | 656 |
| No | 67 |


| Caught by |  |
| :--- | :--- |
| Guided | 401 |
| Unguided | 322 |

Coho Biological Data Summary
*Note - Lodge biological data not included

| Length class | length freq | label |
| :---: | :---: | :--- |
| 10 | 1 | not measured |
| 490 | 2 | $<500$ |
| 590 | 114 | $5-600$ |
| 690 | 543 | $6-700$ |
| 790 | 234 | $7-800$ |
| 890 | 10 | $8-900$ |
|  | 1 | $>900$ |


| Adipose marks |  |
| :--- | :---: |
| Marked | 8 |
| Unmarked | 807 |
| Unknown | 90 |


| Gender |  |
| :--- | :---: |
| Male | 152 |
| Female | 129 |
| Not checked | 51 |
| Undeterminable | 573 |


| Subarea | \# caught | Percent |
| :---: | :---: | :---: |
| 4 A | 2 | $0 \%$ |
| 4 B | 75 | $8 \%$ |
| 4 C | 76 | $8 \%$ |
| 4 D | 240 | $27 \%$ |
| 4 E | 0 | $0 \%$ |
| 4 F | 287 | $32 \%$ |
| 4 G | 26 | $3 \%$ |
| 4 H | 116 | $13 \%$ |
| 4 L | 7 | $1 \%$ |
| 3 l | 39 | $4 \%$ |
| 3 J | 29 | $3 \%$ |
| 3 K | 8 | $1 \%$ |
| total | 905 |  |


| Caught by |  |
| :--- | :---: |
| Guided | 331 |
| Unguided | 574 |

## Halibut Biological Data Summary

*Note - Lodge biological data not included

| Length class | length freq | label | Subarea | \# caught | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 0 | not measured | 4A | 0 |  |
| 590 | 6 | <600 | 4B | 76 | 7\% |
| 690 | 75 | 6-700 | 4C | 115 | 11\% |
| 790 | 305 | 7-800 | 4D | 66 | 6\% |
| 890 | 275 | 8-900 | 4E | 25 | 2\% |
| 990 | 135 | 9-1000 | 4F | 215 | 21\% |
| 1090 | 87 | 10-1100 | 4G | 20 | 2\% |
| 1190 | 56 | 11-1200 | 4H | 303 | 30\% |
| 1290 | 47 | 12-1300 | 4L | 119 | 12\% |
| 1390 | 14 | 13-1400 | 31 | 36 | 4\% |
| 1490 | 15 | 14-1500 | 3J | 48 | 5\% |
| 1590 | 5 | 15-1600 | 3K | 4 | 0\% |
| 1690 | 3 | 16-1700 | total | 1027 |  |
| 1790 | 3 | 17-1800 |  |  |  |
| 1890 | 1 | 18-1900 | Caus |  |  |
| 1990 | 0 | 19-2000 | Guided | 682 |  |
|  | 0 | >2000 | Unguided | 345 |  |


| Avg. weight (lbs) | 22.48 |
| ---: | ---: |
| Guided | 23.4 |
| Unguided | 20.5 |


[^0]:    Database Tally \# :
    (office use only)

