Georgia Strait Sport Fishing Creel Survey 1980 - 81



Government of Canada

nent Gouvernement ria du Canada

Fisheries and Oceans

Pèches et Océans

CATNO 80007

Georgia Strait Sport Fishing Creel Survey 1980 - 81

Government of Canada

t Gouvernement du Canada

Pèches

et Océans

Fisheries and Oceans



Suite 130 - The Station 601 West Cordova Street Vancouver British Columbia -Canada V6B 1G1

604 681-7577

Mr. Tom Shardlow Department of Fisheries and Oceans 60 Front Street Nanaimo, BC V9R 5H7

Dear Mr. Shardlow:

We are pleased to enclose the final report on the 1980-81 Georgia Strait Sport Fishing Creel Survey.

A project of this size and scope could not have been completed without the assistance of many people, and we would like to take advantage of this opportunity to acknowldege the assistance of the following individuals and groups.

Ken Ouellette "conceived" the idea to pursue this contract study, and initially acted as Project Manager. Vic Faulkes and Judy Coursley served as advisors. Joanna Dale, Janet Canning, and Don McConnell undertook the bulk of the data editing. Geoff Zeiss and Paul Higgins assisted in computer program development. Keith Brickley brought the study team's attention to the Statistics Canada travel survey upon which the creel survey design is broadly based. Judith Hawkins undertook the bulk of the typing and day to day accounting management. Doreen Fraser assisted with the typing.

We thank the Canada Employment and Immigration Commission (CEIC) for their support and cooperation in funding summer students to work on the project. Non-CEIC personnel also acted as project leaders and surveyors. The Department of Fisheries and Oceans, including Steering Committee members and Fishery Officers, provided considerable guidance and encouragement. In particular, we would like to thank Steve Heizer and yourself.

The assistance of marina operators and recreational fishermen was a critical component of the success of the study. Without their cooperation, the study could not have been completed.

.../2

2/...

While acknowledging the assistance of the above individuals, we alone accept responsibility for the study contents.

Yours truly,

Doug Williams

Douglas Williams, Ph.D. Vice President

DW:jh Encl.

THE GEORGIA STRAIT SPORT FISHING CREEL SURVEY

VOLUME 1₁ MAIN REPORT

Prepared for: Department of Fisheries and Oceans Pacific Region Vancouver, BC

ſ

Ţ

Γ

F

Prepared by: DPA Consulting Limited Vancouver, BC

July, 1982

INDEX

.

| | · | Page |
|-----|---|---|
| | Preface | i |
| | Executive Summary | ii |
| 1.0 | Introduction | 1 – 1 |
| 2.0 | Background | 2-1 |
| | 2.1 Problem Definition 2.2 Alternate Potential Approaches 2.2.1 Access Point Creel Survey 2.2.2 Roving Creel Survey 2.2.3 Benchmark Effort Surveys 2.2.4 Mark Recapture Methods 2.3 The Approach Adopted | 2-1 2-2 2-2 2-3 2-4 2-5 |
| 3.0 | Project Description | 3-1 |
| | 3.1 The Study Area and Survey Period 3.2 The Creel Survey 3.2.1 Description 3.2.2 Field Organizational Structure and Staffing 3.2.3 Inventory of Facilities 3.2.4 Questionnaire Design and Pretest 3.2.5 Training and Monitoring 3.2.6 Scale of the Survey 3.3 The Aerial Survey 3.3.1 Description 3.2.2 Flight Path Design 3.3.3 Training of Observers 3.3.4 Overflight Verification Procedures 3.3.5 Number of Overflights | 3-1 3-3 3-5 3-6 3-7 3-10 3-11 3-11 3-12 3-14 3-14 3-15 |
| 4.0 | Survey Design and Methodology | 4-1 |
| | 4.1 Synopsis of Methodology 4.2 The Creel Survey 4.2.1 Survey Design 4.2.2 Estimation | 4-1 4-2 4-2 4-11 4-13 |
| | 4.3 The Aerial Survey 4.3.1 Survey Design 4.3.2 Estimation 4.4 Sport Fishing Activity Estimation | 4-13 4-13 4-15 4-15 |

| 5.0 | Data Processing Procedures 5.1 Data Capture Issues 5.1.1 Coding Issues 5.1.2 Time of Fishing 5.1.3 Verification 5.1.4 Testing 5.1.5 Site Summaries 5.2 Data Processing Issues 5.2.1 Editing Stage Components 5.2.2 Estimation Stage | 5-1 5-2 5-2 5-3 5-3 5-4 5-4 5-6 5-7 |
|-----|--|---|
| 6.0 | Results | 6-1 |
| 7.0 | Limitations 7.1 The Creel Survey 7.2 The Overflight Survey 7.3 Catch and Effort Methodology 7.4 Some General Observations | 7-1 7-1 7-4 7-5 7-6 |
| | References | 8-1 |

١٢.

PREFACE

The results of the Georgia Strait Sport Fishing Creel Survey are reported in five volumes. In Volume I, Main Report, the approach and statistical methodoloy are outlined, and the sport fishing catch and effort estimates Additional detail concerning presented. are theunderlying data base and methodology is documented in Volume II, Supporting Statistical Appendices. In Volume III, Data Processing Documentation, the computer software developed to process and edit the creel survey data is The structure of future creel surveys presented. is addressed Volume IV, Future Creel in Survey Considerations. Finally, in Volume V, Grouped Landing Site Summaries, summary creel survey computer output for each month is presented.

EXECUTIVE SUMMARY

The recreational tidal salmon fishery in Georgia Strait has grown dramatically over the past two decades. This pattern of increased growth is set against a background of declining commercial salmon catches and increased concern for the resource. For the Georgia Strait fishery. reliable estimates of basic salmon sport fishery statistics of catch and effort have been lacking. This deficiency has retarded analysis of this fishery sector and challenged the credibility of sport fishery regulations -- both those in place and those proposed.

The primary objectives of this study were to estimate the following quantities on a monthly and sub-regional or Statistical Area basis for Georgia Strait:

- . the catches of coho and chinook salmon by recreational fishermen,
- . the fishing effort expended in achieving these catches, and
- . the proportions of marked coho and marked chinook in the sports catch.

geographic dimensions of the study area, Given the vast the dynamic and diverse nature of the sport fishery and the lack of baseline data, a hybrid survey approach was adopted. From chartered aircraft, thenumber of recreational boats actively fishing during a 'snapshot' hour of the day was identified (the overflight survey). Additionally, interviews were conducted with recreational boating parties landing at marinas, boat ramps, and other landing points (the creel survey). During the interviews, time of fishing, catches realized (kept and released) and other boating party characteristics were determined. On the basis of daily fishing profiles derived from the creel data, the 'snapshot' boat counts from the survey overflight survey were scaled to a monthly estimate of

ii

sport fishing boat trips. Sport catches were estimated by applying creel survey catch per boat trip estimates to the sport fishing boat trip estimate.

Over the July 1980 to June 1981 survey period, 49 thousand boating parties, of which 41 thousand had been fishing, were interviewed. A total of 136 overflights on 54 separate days were conducted.

Over the 12 month period, an estimated 877 thousand salmon were caught by sport fishermen in Georgia Strait, with 537 thousand and 324 thousand being cohoand chinook respectively. The estimated effort expended in achieving these catches was 724 thousand sport fishing boat trips. Ninety-five percent confidence bounds for each of the four total Georgia Strait annual activity estimates (total salmon caught, total coho caught, total chinook caught, and total effort) are within 6 percent of these values. The 95 percent confidence interval estimate for the 1.2 month total salmon catch is 839 thousand to 916 thousand salmon.

In the table on page iv estimated sport fishing catch and effort by statistical area are summarized.

An outgrowth of the survey was the construction of a detailed database upon which in-depth analysis of the sport fishery can be based. For example, the distribution of catch between sport fishing boating parties can be analyzed. The data reveal that, of those sport fishing boating parties interviewed, 52 percent caught zero salmon, whereas 2.5 percent "limited out" (caught at least 4 salmon per person).

ESTIMATED GEORGIA STRAIT SPORT FISHERMEN CATCH, JULY 1980 TO JUNE 1981

| н. н. С. С. С | Statistical Area | | | | | | | | | | |
|---|------------------|-------|------|-------|-------|------------|------|------|------|------|-------|
| | 13 | 14 | 15 | 16 | 17 | 18 | 19A | 19B+ | 28 | 29 | Total |
| | | | | | ('000 |)) | | | | | |
| Effort ^a | 135.7 | 108.2 | 17.5 | 95.3 | 83.1 | 57.7 | 45.3 | 84.6 | 48.7 | 47.7 | 723.8 |
| Coho Catch ^b | 177.0 | 124.5 | 15.8 | 82.3 | 44.8 | 17.6 | 8.7 | 25.4 | 18.5 | 22.2 | 536.8 |
| Chinook Catch ^b | 40.1 | 32.5 | 4.8 | 32.1 | 57.8 | 27.4 | 31.9 | 58.9 | 17.9 | 20.3 | 323.7 |
| Salmonid Catch ^b | 219.9 | 161.0 | 21.1 | 115.1 | 103.4 | 48.4 | 41.0 | 86.9 | 37.0 | 43.4 | 877.2 |
| | | | | | | | | | | | |

F

^aSport fishing boat trips

^bKept fish only

1.0 INTRODUCTION

Participation in the recreational tidal salmon fishery in Georgia Strait has grown dramatically over the past two decades and this growth is expected to continue in the future. Increased mobility of fishermen and increased harvesting efficiency due to improved fishing gear and techniques, together with the growth in angler participation, have altered the level and distribution of sport fishing catch and effort significantly from historic norms.

1 - 1

This pattern of increased growth for the Georgia Strait sport fishery is set against a background of declining commercial salmon catches and increased concern for the resource. Sport fishermen are significant "users" of the chinook and coho salmon resources -- the main salmon species landed in the sport fishery. However, little concrete information exists concerning either the levels of catch for chinook and coho or the level of effort expended in achieving these catches. Such information, on a temporal and geographical basis, is critical to the sound management of the sport fishery.

For the Georgia Strait sport fishery, reliable sport fishery statistics have been lacking. This deficiency has retarded analysis of this fishery sector and challenged the credibility of sport fishery regulations -- both those in place and those proposed.

From 1956 to 1976 the Department of Fisheries published annual reports on sport fishery salmon catch and effort by month and by Statistical Area. These statistics were provided by Department of Fisheries and Oceans (DFO) Fishery Officers using a variety of judgemental techniques. Sport fishery related duties -- regulation, enforcement, and statistics generation -- are viewed as an adjunct to Fishery Officer work load and, accordingly, are afforded a low priority. Due to understaffing problems and an increase in the non-sport fishery related work load, Fishery Officers have been allocating an even smaller percentage of their time to monitoring the sport fishery. In 1976, the last year for which DFO published sport fishery statistics, the Department estimated that less than 500 thousand coho and chinook were caught in the Georgia Strait recreational fishery.

Recently, several studies employing a variety of techniques have estimated the total sport fish catch for the main salmon species, but these analyses have produced widely varying results.¹ These studies have suggested a sport fish catch from two to four times as great as that based on Fishery Officers' estimates.

This is the environment of uncertainty concerning the present status of the Georgia Strait sport fishery in which the present study was spawned. In sum, the increasing magnitude of the sport fishery and the wide variability in existing estimates indicate the need for a controlled comprehensive statistical sampling procedure to be employed in estimating the basic salmon sport fishery statistics of catch and effort. It is this need that the study described herein addresses.

The remaining sections of this volume are organized as follows. In Section 2 we outline the study objectives and the rationale underlying the approach adopted. In Section 3 the project is described in non-technial terms. In the following section, we present technical documentation of the statistical procedures underlying the methodology. Data processing procedures are described in Section 5. The estimates of Georgia Strait sport fishing salmon catch

FOOTNOTES

1. Using mark-recapture and log book data, Argue et al estimated the five year (1972-1976) Georgia Strait average sport catch for the total of chinook plus coho at 813 thousand pieces [3]. A 1975 postal survey estimated the total coho and chinook catch to be 1.2 million pieces [1]. A 1978 mail questionnaire of boat owners generated an estimate of 1.7 million salmon (all species) caught in the recreational fishery in the Strait of Georgia in that year [14].

5

Ţ

2.0 BACKGROUND

2.1 Problem Definition

The primary objectives of the project were to estimate the following quantities on a monthly and sub-regional (Statistical Area) basis for the broad geographic region known as Georgia Strait:

- . the catches of coho and chinook salmon by recreational fishermen,
- . the fishing effort expended in achieving these catches, and
- . the proportions of marked coho and marked chinook in the sports catch¹.

2.2 Alternate Potential Approaches

Because of the requirement for determining the proportions of marked coho and chinook in the sports catch, feasible approaches are restricted to "direct methods", i.e., methods in which the catch is actually observed. In addition. indirect methods. such as mail survey were deemed questionnaires and punch card approaches, inadequate for this particular study due to the significant non-response and recall bias inherent in such approaches, especially at the disaggregate level of detail required (i.e., by month and Statistical Area).

The essential features of several direct survey methods and some British Columbia sport'fishery applications for estimating sport fishery catch and effort² are summarized below. The summary description is necessarily succinct and may depart somewhat from the actual field procedures implemented for the surveys cited.

2.2.1 Access Point Creel Survey

With this method, interviewers are stationed at boat access points (marinas, boat ramps, etc.) and sport fishing parties are interviewed at the end of their just completed boat trips. A list of all potential landing sites is required, and the day must be broken into time blocks representing potential interviewing periods or shifts. Ideally, measures of boat traffic volumes at different access points and during different time periods should be available to enhance the efficiency of the survey design. Sampling shifts are determined by randomizing with respect to access points and interviewing periods. For each shift, at the designated facility and during the designated time block, all boating parties returning are counted and as many parties as possible interviewed. Estimates of total fishing effort and total catch over all access points and over all landing time blocks can be constructed.

Such access point creel surveys in British Columbia include the unpublished 1977 and 1978 Campbell River creel surveys and the 1980 Kitimat creel survey (Oguss [18]).

2.2.2 Roving Creel Survey

In the roving creel survey, boating parties are approached by water, and interviews are conducted in the middle of the fishing boat trip. A frame or grid of fishing regions must be identified, and the day divided into time blocks. As with the access point creel survey, the sampling design can be enhanced if the relative distribution of fishing effort over the referent region and during the day available. Sampling shifts are determined by is randomizing with respect to fishing regions and time each shift selected (characterized by a blocks. For

fishing region and an interviewing period), all boats fishing in the selected fishing region are counted and a random sample of boats are interviewed. Sometimes counting sport boats in the referent region is conducted by a of survey crew (by water, by air, or by land) distinct from the team of interviewers. Since interviewing takes place in the middle of the sport fishing experience, and since interested in catches from completed boat trips, one is some assumption is required concerning the relationship between catches of incompleted boat trips and catches of completed boat trips (equal, catch from incomplete trips equal to half that of completed trips, etc.). Given such an assumption, estimates of total fishing effort and total catches over all fishing regions and over all fishing time blocks can be constructed.

Description of two roving creel surveys in the United States are provided by Geldern and Tomlinson [11] and by Malvestuto et al [16].

2.2.3 Benchmark Effort Surveys

The number of active boating parties during a specific high volume period of the day is observed (by water, by air, or by land). Given an external estimate of the proportion of daily fishing activity taking place during the "snapshot" period, one can estimate total daily fishing effort. In turn, if an external estimate of catch per unit effort is available, this estimated fishing effort can be translated into fish catch realized. Consequently, this approach entails two and, perhaps, three distinct survey requirements.

It should be noted that this approach, albeit not on a rigorous statistical basis, most closely approximates the procedure whereby Fishery Officers in British Columbia

presently estimate sport catches.⁵ Counts of boats actively fishing during a particular period of the day and over particular sub-regions are conducted from patrol boats. Based on Fishery Officers' knowledge and judgement, this count is "scaled" to a total daily effort count over the total region of interest. Interviews conducted concomitantly with the "on the water" counts are used to translate fishing effort into fish catch.

2.2.4 Mark Recapture Methods⁴

Under this approach, .units of fish (or alternatively, sport fishing effort) are "marked" and then released to the total fish (sport fishing effort) population. Thereafter, sampling of sport fish catch (effort) occurs at the completion of the sport fishing experience, and the proportion of marks in the sample, or "recaptures", is identified. Assuming random mixing of the population between the time of marking and the time of recapture, and assuming marked and unmarked units are subject to the same "mortality" within the system, one can estimate the total number of units of sport fish catch (effort).

approach by Argue, Coursley, and Harris [3], in which The Georgia Strait Head Recovery (GSHR) data are used, is essentially a mark recapture procedure⁵. The number of "marks" is the number of voluntary sport mark head recoveries turned into DFO, and the proportion of marks "recaptured" is the proportion of sport mark head recoveries in the catches of log book fishermen.⁶ However, the (voluntary) return of heads is outside the control of significant under-reporting is suspected. DFO and Consequently, Argue et al employ an "awareness factor"7, Puget Sound experience in the State of based on Washington, to "scale up" the initial estimated catch levels.

Fraidenburg and Bargmann [9] outline a mark recapture method for estimating sport fishing effort in which on the water interviewing represents "marking a boat" and ramp sampling represents "mark sampling."

2.3 The Approach Adopted

Georgia Strait comprises a water surface area of over 2,000 square miles and has in excess of 1,500 shoreline miles. There are over 500 marinas, boat ramps, and public wharves, as well as thousands of private boat access points from which sport fishing expeditions canbe launched. The sport fishery of the extreme north of Georgia Strait is distributed over а. remote area characterized by few marinas or ramps and a highly mobile sport fleet.

Given the dynamic nature of the sport fishery and given vagaries in weather, one would expect large inherent variability in raw sport fishery data. At the project design phase (May/June, 1980), there was no frame or list of ramps and marinas with relative traffic volumes available, and the relative distribution of sport fishing effort between Georgia Strait sub-regions was not available.

The vast geographic dimensions of the study area, the dynamic and diverse nature of the sport fishery, and the lack of baseline data precluded the adoption of either an access point creel survey or a roving creel survey alone as the instrument to meet the project objectives. The the appropriate estimation of catch per unit issue of effort from incomplete boat trips in a roving creel this method.8 limitation to also a survey was The mark recovery program was deemed inappropriate due to the lack of any BC specific empirical data supporting the "awareness" factors adopted (and the sensitivity of estimates to these factors).

Accordingly, in response to the above considerations, a hybrid approach comprised of an aerial effort survey and an access point creel survey was adopted for this project. In the aerial survey, for each sub-region, the number of sport boats actively fishing during a particular benchmark period is identified. From the creel survey. the proportion of daily fishing effort occurring during thebenchmark period and the daily catch per unit effort are determined. Such a "dual" approach encompassing rigorous statistical design standards was felt to be the best one available to meet the project objectives.

The measure of fishing effort adopted for this study is a "fishing boat trip" -- the basic measurement unit for both the aerial survey and the creel survey. Past analysis has concluded that the fishing effort component, rather than the catch per unit effort component, of the catch estimating equation has been most in error.⁹ Therefore, we argue that fishing effort should be the primary design variable for the two survey instruments.

FOOTNOTES

- 1. Since 1973 marking (clipping the adipose fin) of coho and chinook has occurred in Georgia Strait with marked fish having a coded wire tag (CWT) implanted in their noses. See Argue [2].
- 2. See Fraidenburg and Bargmann [9] for a comparative study of alternate survey methods for Puget Sound in the State of Washington. They found that the one indirect method analysed -- a punch card system --

produced catch estimates twice as high as those from any of three direct estimation methods.

- 3. See also Fraidenburg and Bargmann [9] for a description of an aerial effort survey in Puget Sound.
- 4. See Ricker [19], Chapter 3, for a complete description this approach.
- 5. The GSHR program was never intended as a means of generating sport fish catch and effort statistics. Rather, its intent was to produce information on the location of CWT recoveries, and, hence, migration of salmon.
 - 6. Actually, this is an "indirect" method since catches of log book fishermen are not actually observed. In addition, an external estimate of catch per unit effort is required in order to convert estimated catch into estimated effort.
 - 7. Proportion voluntary mark returns of total marks caught. The order of magnitude of the awareness factor used is .30, i.e., 70% under-reporting.
 - 8. Robson [20,21] shows that statistically unbiased estimates of total use and total catch can only be constructed by interviewing fishermen at the end of the recreational fishing experience.
 - 9. Argue et al [3], in presenting revised 1972-1976 figures for the Georgia Strait sport fishery, essentially adjusted effort upwards, but kept catch per unit effort the same as Fishery Officer-based estimates.

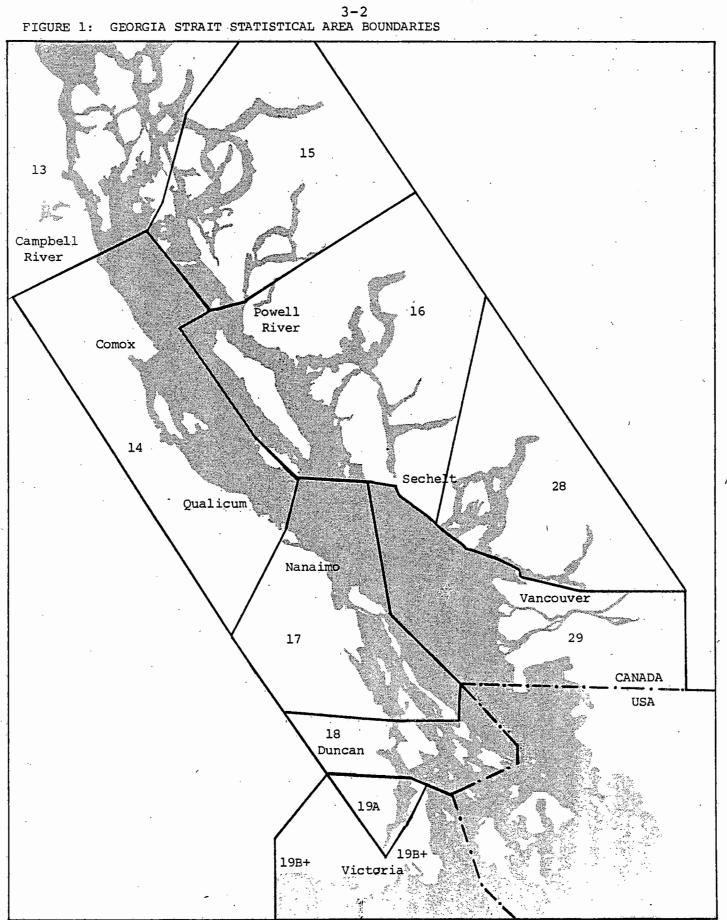
3.0 PROJECT DESCRIPTION

The two primary data collection instruments underlying the methodology for estimating sport salmon catch and sport fishing effort are a creel survey of boating parties and an aerial survey of sport boats actively fishing. In this section, descriptions of both data collection exercises are presented. Emphasis is directed toward the operational details and implementation of each survey. In a following section, sampling design and methodological considerations are outlined.

3.1 The Study Area and Survey Period

The study area is that part of the Strait of Georgia between Sheringham Point off Sooke to Stuart Island north of Campbell River. For statistical reporting purposes DFO has divided the coastal waters of British Columbia into a geographic grid of "Statistical Areas." Some minor differences exist between DFO's commercial fishing Statistical Areas and their sport fishing Statistical Areas. For this study we have adopted commercial fishery Statistical Area boundaries. The study area essentially is that area encompassed by Statistical Areas 13 through 20, with Statistical Area 19 being comprised of areas 19A and 19B. Herafter, areas 19B and 20 are designated 19B+ in the report (see Figure 1).

The study period is the 12 month period from July, 1980 to June, 1981 inclusive. For their commercial fishery statistical system, DFO has defined standard time periods called "months" which do not necessarily conform to calendar months. In this project, we have adopted DFO's time reporting units. Consequently, July, October, January, and April are five week "months", whereas other periods are 4 week "months".¹ The following periods



represent the relevant months over the study period:

| Month | |
|-------|--|
| | |

July

August

October

November

December

January

February

March

April

May

June

September

Period

June 29 - August 2 August 3 - August 30 August 31 - September 27 September 28 - November 1 November 2 - November 29 November 30 - December 28 December 29 - February 1 February 2 - March 1 March 2 - March 29 March 30 - May 3 May 4 - May 31 June 1 - June 28

3.2 The Creel Survey

3.2.1 Description

In the creel survey individuals were stationed at boat access points during fixed time periods, and boating parties were interviewed at the end of the just-completed boat trip. One person from each boating party was interviewed concerning boat trip characteristics for the total boating party. Information was collected on hour of arrival, trip length, number of people in the party, time of fishing, fishing gear used, catches realized (kept and released), etc. In addition, the interviewer inspected the creel of kept fish. This inspection served two purposes:

. to determine the number of marked and unmarked coho and chinook in the creel, and

. to ensure the correct species identification of kept fish.

Generally, the personal interview took at most 5 minutes. A daily boat trip was the basic interviewing unit. One boat trip represents a completed trip, i.e., the boat has reached its final landing point. Therefore, refueling and disembarking immediately would not constitute a completed boat trip. A boat trip is not a boat day. A boating party may undertake more than one boat trip in a given day. Moreover, a boat trip refers to the present day portion of the trip. For overnight trips, boat trip characteristics such as catch and fishing time refer to that activity occurring after midnight only.

The primary focus of the survey was directed toward recreational fishing activity as opposed to recreational boating activity. However, without interviewing the party, it was impossible to determine whether a boating party had been fishing. Accordingly, an attempt was made to interview all craft returning to a facility. If the interviewer determined that the boating party was not fishing, the interview was terminated at the break point between recreational boating and fishing activity related sequences of questions (see Appendix A).

For each stint or interviewing shift the interviewer completed a "tally sheet" on which the number of boats arriving by hour was recorded. The interviewer also recorded qualitative environmental information (sky cover, precipitation, wind and tidal conditions). Interviewers were instructed to attempt to interview all recreational craft arriving during the specified interviewing period. In cases where more boats arrived than could be interviewed. the interviewers were advised to interview a "representative" (with respect to catch per unit effort) cross-section of boats returning. In practice, this meant that interviewers were not to base the selection criteria

3-4

for interviewing on the likelihood that the boating party had been fishing (e.g., by not interviewing sail boating parties) or that the fishing party had been successful (e.g., by conducting interviews only at the gutting table).

The creel survey was voluntary and anonymous. No information was recorded that could be used to identify the boating party, such as the boat license number. Refusals amounted to less than 1% of those individuals approached for interviews.

3.2.2 Field Organizational Structure and Staffing

The Georgia Strait study region was segmented into administrative areas. For each administrative area, a project leader was selected who, in turn, hired the field surveyors. The role of the project leader was to ensure the proper delivery of the survey in the field, to undertake the bulk of training of new staff after project start up, and to act as a liaison between project management and the sport fishing public, marina operators, and DFO field staff.²

During the summer of 1980 (July and August) and the spring of 1981 (May and June), the project utilized students funded under the Canada Employment and Immigration (CEIC) summer student employment program.³ During other months, project leaders and field surveyors were hired directly on contract. The CEIC student personnel were sponsored by DFO, but were subject to direction and instruction by the Project Team.

The number of administrative areas/project leaders varied by season as follows:

Π

| July/August | Sept through Apr | May/June |
|-------------------|----------------------|------------------|
| Campbell River | Campbell River/Comox | Campbell River |
| Comox/Courtenay | Nanaimo/Qualicum | Qualicum/Comox |
| Qualicum | Victoria | Nanaimo |
| Nanaimo | Sechelt Peninsula/ | Sechelt Pen./ |
| Victoria | Powell River | Yowell River |
| Powell River | Vancouver Region | Vancouver Region |
| Sechelt Peninsula | | Victoria |
| West Vancouver | | |
| Vancouver | | |

3-6

Fraser River

3.2.3 Inventory of Facilties

In June, 1980 project leaders conducted an inventory of recreational boating landing sites in each administrative area. The following information was requested:

- . type of facility (marina, boat ramp, beach access)
- . services offered (charter boats, bait sales)
- . seasonality of operation
- . estimated sport fishing boat traffic by month
- . proportion sport fishing boat traffic to total recreational boating traffic
- . areas fished by the local fishermen population.

In compiling the inventory, information sources included marina operators, Fishery Officers, and knowledgeable sport fishermen.

The above information was used in designing the creel and aerial surveys.

3.2.4 Questionnaire Design and Pretest

Π

The creel survey consisted of personal interviews of boating parties at the end of their recreational boating experience. The questionnaire format was a single page of closed-ended questions with a map of the local fishing region on the reverse side.^{4,5} Interviewers were asked to mark on the map the particular location of fishing, hours fished, number of kept and released fish for each "fishing hole" frequented. The intent was not to incorporate such information into the creel survey analysis, but to collect the relevant information during the course of the survey with a view to meeting future downstream information needs on a "local area" basis.

The month of June, 1980 was treated as a pilot survey period and a draft questionnaire was administered in the field. Results of, and experience with, the pilot survey in terms of question wording, survey delivery, and local areas fished were used to enhance the design of both the creel and aerial surveys proper which started in July, 1980. In particular, pilot survey results were used to identify daily peak fishing periods. Subsequently, the timing of the overflights in July was matched to these peak periods. In addition, sport boat traffic volumes realized during the pilot survey were used to modify traffic volume estimates derived from the inventory of facilities.

Early in the design phase of the project, DFO officials indicated a desire to collect information under the auspices of the creel survey related to such issues as socioeconomic characteristics of boating party members and number of released fish -- data not directly related to the objectives of the project. Subsequently, it was agreed to include such questions in the questionnaire on

3-7

the condition that such information be collected under the survey and captured under computer data entry, but that activity estimates on the same basis as catch and effort (i.e., by month and Statistical Areas) would not be generated. As a result, the creel survey questionnaire in final form addressed the following questions:

Recreational Boating Characteristics

- . length class of boat
- . propulsion class of boat
- . rented or non-rented boat
- . guided or non-guided boat
- . number of individuals in boating party by age class
- . residence of boating party members
- . time of landing
- . length of boat trip
- . did the party fish?

Fishing Activity Characteristics (for those parties fishing)

- . main species at which fishing effort was directed
- . hours of day during which fishing occurred⁶
- . average number fishing lines employed
- . fishing method and tackle
- . number of hours fished by Statistical Area
- . number of kept fish by species and Statistical Area caught
- . number of released fish by species and Statistical Area caught
- . number of marked coho and marked chinook in creel
- . number of unmarked coho and unmarked chinook in creel.

3-8

A copy of the questionnaire and details concerning questionnaire definitions are provided in Appendix A.

3.2.5 Training and Monitoring

Because of the staff turnover inherent in employing student interviewers, training and monitoring programs were essentially year-round operations. Peak training periods were during times of project start-up (June/July), the changeover from 1980 summer student staff to off-season samplers (September), and 1981 summer student staff additions (May/June).

Training involved instruction in:

- . the correct administering of the questionnaire
- . the correct identification of fish.

The main training instrument, which outlined the correct delivery of the questionnaire on a question-by-question basis, was a "samplers manual." (See Appendix B for selected excerpts). In addition, local fishing vernacular regarding names of fish and fishing gear were identified in the manual.

Training relating to the correct identification of fish encompassed the following:

- . classroom training on species identification
- . on-site fish identification training at marina facilities, and
- . visiting commercial fish processing operations.

After an initial familiarization period, project leaders in the field were responsible for ensuring that the questionnaire was being administered properly, and that field interviewing staff could properly identify fish. Monitoring of field performance was accomplished by periodic unannounced on-site visits and by checking questionnaire returns. A substantial effort was made by project leaders and the Project Team Field Coordinator to monitor the creel survey through on-site visits. In the summer of 1980, DFO personnel also took part in monitoring.

3.2.6 Scale of the Survey

Various measures of creel survey sampling effort corresponding to the different dimensions or stages of the sampling design exist (see Chapter 4). The followng table summarizes the magnitude of the survey effort in terms of people employed, number of sites sampled, number of interviewing shifts, and number of interviews by month.

| | | | | Number of Interviews | | |
|-----------|---|------------------|------------------------|-------------------------|--------------------|--|
| | Person Months* of Sampling Effort | Sites Sampled | Interviewing Shifts | All Parties | Fishing Parties | |
| July | 37 | 80 | 6 934 | 15,679 | 12,517 | |
| August | 35 | 77 | 693 | 12,414 | 10,199 | |
| September | 16 | 34 | 317 | 3,839 | 3,337 | |
| October | 9 | 24 | 227 | 2,368 | 2,129 | |
| November | . 5 | 14 | 109 | 679 | 533 | |
| December | · 5 | 14 | 107 | 491 | 407 | |
| January | 6 | 19 | 142 | 1,335 | 1,123 | |
| February | 6 | 19 | 119 | 1,156 | 945 | |
| March | . 7 | 18 | 143 | 1,049 | 805 | |
| April | 7 | 18 | 168 | 954 | 733 | |
| May | 15 | 30 | 301 | 4,131 | 3,387 | |
| June | 19 | 38 | 387 | 5,349 | 4,720 | |
| Total | 167 | | 3,647 | 49,444 | 40,835 | |

TABLE 1: MEASURES OF SAMPLING EFFORT FOR THE 1980/81 GEORGIA STRAIT SPORT FISHING CREEL SURVEY

Based on 5 interviewing shifts (6-8 hours in length) per week. July, October, January, and April are 5 week months.

3.3 The Aerial Survey

3.3.1 Description

The aerial survey entailed counting from an aircraft the number of sports craft actively engaged in fishing. For a given month and day type (weekends versus weekdays), counts for each Georgia Strait region were conducted during the same hour of the day over a sequence of days.

Counts were conducted from chartered aircraft (Cessna 180, 185, or 206 float planes) flown at an altitude of 500-750 feet, a height that allowed a sufficiently broad line of vision and from which vessel characteristics could be easily identified. In order to cover the vast geographic distances involved, either two or three aircraft (depending on the season) were deployed simultaneously, with each aircraft having two or three observers.⁷ Each observer counted sports boats actively fishing off his/her side of the plane. The length of each flight ranged from two to four hours.

Each Statistical Area (Figure 1) was divided into reporting grids or sub-areas to facilitate the recording of boat counts and to allow the delineation of the geographic pattern of sport fishing activity on a sub-Statistical Area basis (see charts in Appendix D). Observers marked the location of clusters of craft actively fishing within each sub-area on a series of charts. Total counts for each sub-area were determined as the sum of the left hand count plus the average right hand count.

Sport boats fishing were deemed to be non-commercial vessels except the following:

. sailboats with sails up, obviously "running" or

towing a dinghy

- . boats running (larger wake than trolling), and
- . boats buoyed (anchored for mooring rather than fishing).

In cases where observers actually saw sport fishing lines in the water (e.g., person fishing from a tugboat), the above criteria were overridden.

3.3.2 Flight Path Design

Flight path design refers to the geographic location of the overflight path and the timing of the overflights. The line of the flight path was based on three main considerations:

- . the geographic distribution of sport fishing activity in summer months from 1965 to 1971 as given by Argue and Pitre [4],
- . inspection of local fishing areas from the reverse side of the questionaire used in the June, 1980 pilot creel survey, and
- . knowledge of Project Team members.

Because of the potential for verification of observer accuracy for right hand counts (i.e., potentially, two observers on the right hand side of the aircraft versus one on the left), flight paths were constructed to keep the majority of the boats on the right side of the aircraft.

From July through October, three planes were deployed simultaneously to cover known sport fishing areas. In winter months, certain areas (e.g., Stuart Island) were eliminated, and only two planes were used. In spring, 1981, with ten months of overflights completed, it was judged adequate to continue with two planes through June, albeit with much longer routes. In winter months, fishing spots are concentrated closer to shore, and, accordingly, winter flight paths were designed to follow the shoreline more closely than were summer flight paths. The different flight paths employed for different months are documented in Appendix C.

For statistical reasons, it was desireable to conduct overflight counts at hours of the day corresponding to peak fishing activity. Summer peak fishing periods, as determined from a cursory analysis of June, 1980 pilot survey data, were deemed to be early evening on weekdays and mid-morning on weekends. In early project months (July through September) weekday overflights started in late and weekend overflights started in afternoon early morning. In October, due to the decrease in daylight and the decrease in tourism-related fishing hours activity, all overflights were schedulied in the morning. This schedule persisted to the end of the survey. The overflight starting time within the scheduled exact departure hour was determined so that in the majority of cases the overflights crossed major Statistical Area boundaries "on the hour."

The chance of "double counting" the sport boats was minimized through the following procedures:

- . overflights were designed so that "crossovers" in overflight paths were avoided if possible,
- . unavoidable crossovers were designed not to occur over major sport fishery grounds, and
- the pilot was instructed to fly between, rather than over, clusters of boats.

3.3.3 Training of Observers

Initially, i.e., at project start-up, training for overflight observers took two forms:

- a classroom training session, involving an instruction booklet and aerial photographs of sport and non-sport vessels as source materials, to determine decision rules for identifying sport fishing craft, and
- a training overflight.

For subsequent flights involving new personnel, the individuals were briefed as to boat identification and overflight recording procedures. They were then deployed as "right hand counters" in the aircraft. As an internal check on the performance of trainees, an experienced observer was also deployed on the right hand side.

3.3.4 Overflight Verification Procedures

Potentially, an "observer error" could occur in the overflight counts if an observer did not accurately count all sport craft actively fishing as determined by the decision rule adopted.

Internal verification of the accuracy of visual counts was possible in those situations where three observers per aircraft were employed (allowing two right hand counts). Based on a review of the charts on a total Statistical Area basis, it was found that the two right hand counts differed by at most 5%. In relation to sampling variation between overflight days this was of minimal significance.

On two occasions photographs of selected densely populated sport fishing grounds were taken from an independent aircraft at the same time as overflight counts were being conducted. By comparing sport fishing boat counts as determined from the photographs⁸ to corresponding overflight counts, it was possible to compare the visual counts to "reality."

On July 27, 1980 (Vancouver Sun Derby Day), the east and south shorelines of Bowen Island in Howe Sound were photographed. The count of sport fishing boats from the photographs (450 boats) compared favourably with the 440 boats sighted from the aircraft. On September 17, 1980 a photographic flight off Cape Mudge near Campbell River recorded 187 sport fishing boats, whereas the visual count from overflights was 184 craft. Additional details concerning the photographic verification flights are given in Appendix F.

These two occasions provide a good test of the accuracy of the overflight procedure because one would expect the greatest errors to occur in densely population fishing areas such as Howe Sound on Derby Day and Cape Mudge during summer.

Based on the empirical evidence from the internal verification comparisons of right hand overflight counts and from the photographic overflights, it was concluded that at the total regional or Statistical Area level, observer error was not a concern.⁹

3.3.5. Number of Overflights

 $\left[\right]$

1

Π

As indicated earlier, the number of aircraft deployed per overflight day was three from July through October and two thereafter. The following table summarizes the number of overflights by month and by weekend versus weekday over the life of the project.

| | Number o: | f Overflig | ht Days | |
|-----------|-----------|------------|---------|--------------------------|
| | Weekday | Weekend | Total | Number of Plane Trips |
| July | 3 | 6 | 9 | 27 |
| August | 3 | 5 | 8 | 24 |
| September | 3 | 4 | 7 | 21 |
| October | 2 | 2 | 4 | 12 |
| November | 1 | 1 | 2 | 4 |
| December | 1 | l | 2 | 4 |
| January | 1 | 1 | 2 | 4 |
| February | 1 | 1 | 2 | 4 |
| March | 2 | 2 | 4 | · 8. |
| April | . 2 | 2 | 4 | 8 |
| May | 2 | 2 | 4 | 8 |
| June | · 3 | 3 | 6 | 12 |
| Total - | 24 | 30 | 54 | 136 |

TABLE 2: NUMBER OF OVERFLIGHTS IN THE 1980/81 GEORGIA STRAIT SPORT FISHING AERIAL SURVEY

FOOTNOTES

1. In 1980, DFO used a "Sunday to Saturday" span to designate time periods. In 1981, they changed the reporting period to "Monday to Sunday." Consequently, December, 1980 had 29 days.

ł

- 2. In winter months the project leaders were the only full-time interviewers.
- 3. The 1980 CEIC summer student employment program sponsored by DFO was designed before project start-up, and the project "inherited" the existing number and distribution of students in the program. For 1981, the

3-16

creel survey was continued under direct DFO direction into July and August, a period beyond the 12 month term of this study.

- 4. Four types of questionnaires existed, with each type having the same sequence of questions on the front face, but a different Georgia Strait sub-region map on the reverse.
- 5. The survey form was designed so that computer data entry could be conducted directly from it.
- 6. A boat was deemed to fish during a given hour if it fished one-half hour or more during the hour.
- 7. In cases where there were three observers in the plane, two were situated on the right hand side.
- 8. The decision rules for defining sport fishing boats used for the overflights were employed, e.g., boats with large wakes were not fishing, etc.
- 9. However, the distribution of sport fishing boats among Statistical sub-Areas as determined from overflights is subject to greater errors (Appendix F).

4.0 SURVEY DESIGN AND METHODOLOGY

The methodology underlying the estimation of salmon sport fishing catch and effort is based on two major surveys:

- . a creel survey of fishermen landing at particular facilities (marinas, ramps, etc.) and
- an aerial survey (or overflight procedure) of sport fishing boat counts.

This section presents a description of the design and estimation procedures for each of the two surveys. The procedure by which the results of the two surveys are drawn together to estimate sport fishing catch and effort is also described.

4.1 Synopsis of Methodology

The following is a simplified description of the methodology used to estimate sport fishing catch and effort.

Results from the overflight survey indicate the number of sport fishing boats fishing in a particular one-hour block, Y. Using data from the creel survey, one can calculate the proportion of daily sport craft fishing during the designated one-hour period, p, and the catch per boat trip, c. Estimates of monthly catch and effort are constructed as:

Total Effort : N x Y x 1/p Total Catch : N x Y x 1/p x c

where N represents the number of days in the month.

We do not rely solely on the landing site survey to estimate total effort and total catch. Rather, the landing site survey is used to estimate intensive fishing parameters (catch per boat trip and daily fishing patterns) to be applied to the benchmark sport fishing boat counts provided by the aerial survey.

The above is а simplified representation of the methodology that abstracts from stratification (months, Statistical Areas, weekends versus weekdays, stint or shift type, and time blocks day) within the and the multistage sampling dimension (marinas/ramps, days, and vessels) of the creel survey.

Following is detailed technical documentation of the design of the two surveys and the methodology adopted.

4.2 The Creel Survey

The creel survey involves the interviewing of boating parties at the end of their just-completed boat trip. The intent of the creel survey is to provide data with which to estimate intensive fishing parameters, such as catch per boat trip and the proportion of boats fishing during each hour of the day.

4.2.1 Survey Design

In May, 1980 rough estimates¹ of design parameters such expected catch per unit effort by salmon species, the as variability in fishing success among fishing parties, and relative distribution of sport fishing effort between the Statistical Areas and months were used to designate recommended creel survey manpower requirements of 136 person-months. This level of sampling effort was altered in response to the availability of CEIC sponsored student manpower. As a result, 167 person-months of creel survey sampling effort were realized (see Table 1).

The coastline of Georgia Strait was segmented into 23 (see grouped landing sites map in Appendix L) fishing regions and corresponding to distinct local corresponding to regions accessible to the field staff. grouped landing areas were chosen to be consistent The with the classification of fishing areas in previous studies [4].

For each grouped landing site area², a stratified three-stage sampling design was considered (collapsing into two stages in some cases). The stages of selection were site, stint or day, and boat (or boating party). The three stratification levels were day type (weekend versus weekday), stint type, and time block. The hierarchy shown in Table 3 denotes the sampling and stratification stages. The design is broadly based on, and adapted from, a design suggested by Statistics Canada for estimating traffic through Canadian custom ports [5,13].

| TABLE 3: | CREEL SURVEY SAMPLING HIERARCHY | AND STRATIFICATION |
|-----------|------------------------------------|--------------------|
| Subscript | Sampling Stage | Stratification |
| h | | weekend/weekday |
| i | site | |
| j | | stint type |
| ķ | stint | |
| 1 | ĩ | time block |
| đ | recreational vessel | |

For the sake of simplicity in the presentation, no subscripts referring to month and region (Statistical

Area) are employed in the following discussion.

Day Type

Fishing success and the temporal distribution of fishing effort may vary from weekend to weekday. Consistent with experiences elsewhere, one would also expect substantially more fishing activity to take place on a weekend day as opposed to a mid-weekday [11, 16,18]. Accordingly, separate estimates were obtained for weekend versus weekday activity. For classification purposes, statutory holidays are treated as weekend days.

Sites

From the list of marinas/ramps and associated sport boat traffic estimates constructed by each project leader for each of the 23 grouped landing areas, facilities with the following characteristics were selected for potential sampling in July and August:

- . the facility had expected <u>sport fishing</u> boat traffic of at least 500 boats in July (i.e., 15-20 boats a day)
- . adequate vantage or observation points existed so that one person could get an accurate count of all vessels returning to the facility³, and
- . the facility was readily accessible (by car, ferry, etc.) to samplers during daylight hours.

For certain high volume marinas for which it would be impossible for one person to monitor total incoming boat traffic, the facility was treated as a multiple site, and each separate quay or grouped set of quays were considered a disinct facility.

Facilities meeting the above criteria were included in the "sampled population"⁴ of sites at which interviewing could occur. Because of the exclusion of low volume sites (the

first criterion)⁵, and because certain landing areas, such as Stuart Island, the Gulf Islands, and Texada Island, were excluded from potential sampling (the third criterion), some differences exist between the sampled poulation of sites and the target population of all landing sites in Georgia Strait.

In the off-season (October through May), some sites were sampled only on weekends.

For July and August, a probability sample of sites was drawn. For other months, arbitrary selection of sites occurred based largely on:

- . summer 1980 sport boat traffic results (e.g., the high traffic volume sites)
- . seasonality of operation (e.g., some tourist oriented facilities in Campbell River are not open in the winter), and
- . on-going monitoring of area traffic volumes (e.g., a boat ramp in the Victoria region with high winter traffic volume and low summer traffic volume was sampled in February as a result of a Fishery Officer's report).

Selection of sites to be sampled within each area for July and August was determined by probability proportional to size (pps) sampling⁶ where the CEIC student manpower supply could not satisfy manpower requirements to sample all sites in the area sampled population. For these cases the following approach was adopted.

Sites within the sampled population for each month and grouped area were allocated a relative measure of "size" on a scale of 1 to 5. The measure of size⁷ for each site was determined by dividing the monthly estimate of sport fishing boat traffic volume for the site by that volume

~ Y

corresponding to the busiest facility, where traffic volumes were determined from the inventory of facilities, and then multiplying this scaled quantity by 5. Sites having less than 10% of the sport boat traffic of the busiest facility were allocated a size measure of 1.

At least one high volume facility from each administrative area was selected as a "certainty site." Certainty sites were selected to ensure that comprehensive information on at least one large volume site was available for July and August.⁸Certainty sites were selected with probability 1.0 and 16 monthly interviewing periods, or stints, were allocated to each. In contrast, non-certainty sites included in the pps sample were allocated 8 stints each. The rationale for the minimum number of stints per site is given in the sub-section called "Stint".

5

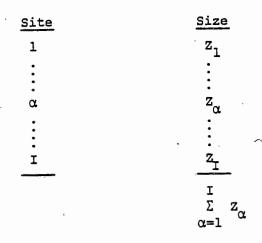
Π

{ }

A pps sample without replacement was drawn from the non-certainty sites. The number of sites included in the sample was determined by dividing the minimum target number of monthly stints per site (8) into the number of monthly stints available. The number of monthly stints available was determined by the number of interviewers. For example, for a 4 week month in which 3 interviewers were available (4 stints per person per week), and in which 1 certainty site was selected, 4 non-certainty sites could be selected ($\{3 \times 4 \times 4 - 16 \times 1\}/8$). 4-7

The procedure for drawing the pps sample is as follows:

(a) List the sites and their sizes:



where Z is a relative measure of size.

(b) Select a random number r between 1 and $\sum_{\alpha=1}^{\Sigma} Z_{\dot{\alpha}}$.

 $\begin{array}{ccc} \text{i-l} & \text{i} \\ \text{If} & \Sigma & Z_{\alpha} < r \leq \Sigma & Z_{\alpha}, \text{ the i}^{\text{th}} \text{ site is selected.} \\ \alpha = 1 & \alpha = 1 \end{array}$

(c) To select the second site, eliminate the ith site and repeat procedures in (a) and (b) and so on for succeeding sites (if necessary).

Although a probability sample of sites was drawn for July and August, in the ensuing estimation stage the estimates refer only to those sites sampled.

Stint Type

Within each day type and site to be sampled, the day was stratified into two 8-hour periods, namely 7AM-3PM and

3PM-11PM, for July and August sampling. We thought that the majority of boats landing would do so between these hours.

For other months, stint length or interviewing period was altered in accordance with the changing hours of daylight. For winter months -- November through February -- only one stint was constructed. The following table outlines the stint periods during the months of the year.⁹

| | Stint Type |
|-----------|--------------------------------------|
| · . | <u>A</u> <u>B</u> |
| July | 7:00 AM - 3:00 PM 3:00 PM - 11:00 PM |
| August | 7:00 AM - 3:00 PM 3:00 PM - 11:00 PM |
| September | 8:00 AM - 3:00 PM 3:00 PM - 9:30 PM |
| October | 9:00 AM - 3:00 PM 11:00 PM-7:30 PM |
| November | 10:00 AM - 6:00 PM |
| December | 10:00 AM - 5:00 PM |
| January | 10:00 AM - 5:00 PM |
| February | 10:00 AM - 6:30 PM |
| March | 9:00 AM - 3:00 PM 11:00 AM - 8:00 PM |
| April | 9:00 AM - 3:00 PM 3:00 PM - 9:00 PM |
| May | 8:00 AM - 3:00 PM 3:00 PM - 10:30 AM |
| June | 7:30 AM - 3:00 PM 3:00 PM - 10:30 PM |

Stint

At the second sampling stage, the required number of / periods or "stints" was selected. As interviewing mentioned above, stint length ranged from 6 to 8 hours, depending on the season. We attempted to sample a minimum of two days for each stint type chosen for each day type.¹⁰ That is, for the summer months, a minimum of 8 stints of sampling effort per site was attempted for each non-certainty site. For each certainty site, a sampling effort target of 16 stints was applied. The greater sampling intensity for certainty sites reflected a desire to provide precise estimates for some larger volume sites over time. We attempted to sample equal numbers of stints within each stint type for each day type for each

site selected.

The allocation of stints for the certainty sites and the selected non-certainty sites was done separately for weekday and weekend days.

In selecting the samples of stints, the month was divided into two halves. A simple random sample without replacement for each stint type and each day type was drawn within each half-month¹¹, subject to certain restrictions, including the following:

- (1) the same site could not be sampled twice within the same day (i.e., AM and PM shifts)
- (2) manpower constraints (samplers must have two consecutive days off, number of sites sampled in any given day must be less than or equal to the number of interviewers, etc.).

This procedure represents a departure from the pure simple random sampling (srs) of stints within day types, selected sites, and stint types for each month. Nevertheless, we predicated subsequent analysis on the assumption of an srs of stints.

Therefore, for each day type, h, for each site, i, for each stint type, j, the probability of a stint being chosen is assumed to be:

$$\Pi_{\text{hij}} = \frac{M_{\text{hij}}}{M_{\text{hij}}} \tag{1}$$

where m_{hij} = the number of stints to be allocated of day type h to the ith site of stint type j. M_{hij} = the number of stints available of day type h to the ith site of stint type j.

For example, if for the month of July (a 5 week month with

11 "weekend" days including the statutory holiday), a particular site i is sampled twice on weekdays during the 7AM-3PM shift, then $\Pi_{hijk} = 2/24$.

Time Block

The day was stratified into four time blocks, namely:

- (1) before 11AM
- (2) 11AM-3PM
- (3) 3PM-7PM
- (4) after 7PM.

These time blocks were based on the length of summer stints.

In July and August, each stint (7AM-3PM or 3PM-11PM) was divided into two time blocks. For winter months the after 7PM time block was omitted.

Recreational Vessel

The third sampling stage, selection of recreational vessels, took place in the field. At the specified time and site, the interviewer did the following:

- . counted all recreational craft landing
- . interviewed as many of the boating parties as possible.

Let s_{hijkl} be the total number of recreational boating parties interviewed in the 1th time block in the kth stint of the jth stint type at the ith site on the hth day type, and let S_{hijkl} be the corresponding total number of recreational boats landing.

One can assume, based on the selection criteria of boating parties for interviewing (Section 3.2.1), that the shijkl parties interviewed are a simple random sample from the S_{hijkl} boating parties landing. Let Π_{hijkl} be the probability of interviewing a boating party in the lth time block in the kth stint on the jth stint type at the ith site on the hth day type. Then,

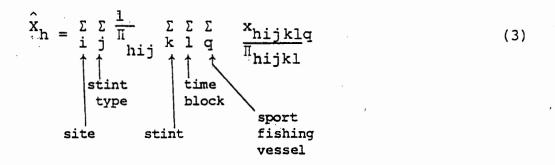
$$\Pi_{\text{hijkl}} = \frac{s_{\text{hijkl}}}{s_{\text{hijkl}}}$$
(2)

4.2.2 Estimation

The estimates of interest for each grouped landing area and each month are those relating to average boating party characteristics of those parties fishing.

There are several methods available for estimating "average" fishing boat trip characteristics. For this study we adopted a "weighted" ratio estimator with the weights of numerator and denominator being the product of the reciprocal of the probability of selection of each stint, Π_{hij} , and the reciprocal of the probability of selection of each recreational vessel, Π_{hijkl} .

Let x_{hijklq} be the questionnaire response by the qth fishing boating party¹² in the lth time block on the kth stint of the jth stint type for the ith site for the hth day type. An unbiased estimator for the monthly total of response variable X for the hth stratum (day type) is:



The estimator refers only to those sites included in the sample rather than to all sites in the sampled population.

Let X_{b}^{\star} represent the unbiased monthly estimate for total number of sport fishing boats returning to the landing with xhijklq sites sampled (determined as in (3) identically equal to one). Then the estimator for a particular average fishing boating party characteristic is constructed as estimated monthly total of response variable X divided by estimated monthly total of fishing boat trips, namely:

(4)

 $\frac{x_h}{\hat{x}_h}$ The above expression is a combined ratio estimator¹³. The choice of thisestimator over alternate ratio estimators was predicated on accuracy and precision (bias and variance) considerations. We expected that average would fishing boating characteristics vary sport different stratification substantially between and sampling stages. For example, a boat landing at dusk would have fished different hours of the day than one landing in mid-morning. In addition, salmon catch levels by species for the two boats may differ due to different diurnal feeding patterns of coho and chinook salmon or due to potentially different effort characteristics (hours fished, etc.). Consequently, an unweighted estimator would produce a significantly biased result. Alternately, with the sample sizes realized and the many levels of stratification present in the design, we thought that the combined ratio estimator offered significant advantages in terms of mean square error (bias squared plus variance) reduction over alternate weighted ratio estimators such as the separate ratio estimator.¹⁴

For the estimation of the proportion of marked coho and marked chinook in the creel we argue that the most appropriate estimator is the simple unweighted ratio estimator.

$$w = \sum \sum \sum \sum \sum \sum u_{hijklq} \frac{h \ i \ j \ k \ l \ q}{\sum \sum \sum \sum \sum \sum v_{hijklq}}$$
(5)

where $u_{hijklq}(v_{hijklq})$ is the number of marked salmon (number of salmon inspected) in the creel of the q^{th} fishing boating party in the l^{th} time block in the k^{th} stint of the j^{th} stint type for the i^{th} site on the h^{th} day type.

One would not expect the proportion of marked fish within a given small area to vary by day type, site, stint type, stint, time block, or recreational vessel, apart from sampling variation. Under such conditions the above estimator is unbiased.

4.3 The Aerial Survey

The aerial survey involved counting boats actively fishing from aircraft. The intent of the aerial survey was to provide data with which to estimate the number of boats fishing during a particular "snapshot" hour of the day.

4.3.1 Survey Design

A stratified design was planned with strata being day type (weekend versus weekday). In May, 1980, rough estimates of design parameters such as the ratio of fishing effort on weekends to fishing effort on weekdays and the variability in fishing effort among days were used to designate a recommended number of overflights of 50. Subsequently, during the course of the project, some minor modifications were made to the initial design with the result that 54 overflights were undertaken (see Table 2).

Within each day type strata for each month, overflight days were selected based on the following circular systematic sampling procedure ([6] p. 208).

Let n_h be the number of overflight days of day type h to be selected in the given month. The N_h available days are ordered chronologically and a random number a_h is selected from 1 to N_h . The sample consists of the n_h days corresponding to:

 $B_{h} = a_{h} + k \left[\frac{N_{h}}{n_{h}}\right] : k=0,1,\ldots,m_{h}-1$ where $\left[\frac{N_{h}}{n_{h}}\right]$ is the greatest integer in $\frac{N_{h}}{n_{h}}$ and where B_{h}

is reduced modulo N_h.

For several months the actual sequence of days on which overflights occurred differed somewhat from the idealized situation. This departure was due to three main reasons:

- . uncertainties at project start up and at the beginning of winter due to negotiations with charter aircraft companies
- . non-availability of aircraft on particular days, and
- . cancellation of less than 6 of the 54 flights due to inclement weather, mainly visibility (fog) problems.

This latter factor could bias the resulting estimates

Daily temporal patterns of fishing activity were aggregated over the 23 grouped landing site areas to form daily fishing patterns for 9 broad "Major Regions" (see Appendix H).¹⁵

- Based on inspection of local areas fished as determined from the chart on the reverse side of the questionnaire, each Statistical sub-Area was "mapped" to one (or a combination) of the 23 grouped landing site areas for which information was available (see Appendix I).
- The temporal fishing pattern of the Major Group to which this grouped landing area belonged (Appendix H) was used to convert the "snapshot" overflight boat count of each sub-Area to a total monthly fishing effort estimate.
- The catch per boat trip of the grouped landing site area (Appendix G) was applied to the resulting monthly sub-Area fishing effort estimate in order to estimate sub-Area total monthly catch.
- The monthly estimates were summed over sub-Areas to generate total Statistical Area monthly estimates of catch and effort.
- The proportions of marked salmon of those grouped landing sites to which the sub-Areas were mapped were weighted by relative sub-Area catch¹⁶ to estimate total Statistical Area proportion of marked coho or chinook in the catch.

A detailed numerical example of the procedure is given in Appendix I.

derived from overflight data. However, this is not a significant concern since weather on overflight days was, in most cases, representative of monthly weather conditions. See Appendix E for a comparison of weather on overflight days with average monthly weather conditions.

4-15

4.3.2 Estimation

The systematic sample mean

$$\overline{y}_{h}(t) = \sum_{b=1}^{n_{h}} \frac{y_{hb}(t)}{n_{h}}$$
(6)

is an unbiased estimate of the population mean

 $\overline{y}_{h}(t) = \sum_{b=1}^{N_{h}} \frac{y_{hb}(t)}{N_{h}}$,

the average number of sport boats fishing in hour t on day type h in the month.

4.4 Sport Fishing Activity Estimation

The preceding two sections have outlined the methodology and statistical considerations underlying the creel survey and the aerial survey, respectively. In this section, the procedure by which results of the two surveys are drawn together to estimate salmon catch and effort on a Statistical Area by month basis is described.

Implicit in the estimation procedure is the need for correspondence between area of landing (from the creel survey) and area of fishing or Statistical sub-Area (from the overflights). We took the following approach in estimating total Statistical Area catch, effort, and proportions of marked coho and chinook in the catch for a given month and day type: Separate estimates of salmon sport fishing catch and effort were made for weekends and weekdays for each Statistical Area and each month. The total monthly estimate is the sum of weekend and weekday estimates. Following is a mathematical representation of the procedure for a given sub-Area:

Let $\bar{p}_{h}(t)$ be the estimated proportion of daily sport fishing boats of day type h fishing in hour t (analogous to equation (4)). The estimate of monthly sport fishing effort for each day type is:

$$E_{h} = N_{h} \frac{\bar{y}_{h}(t)}{\bar{p}_{h}(t)}$$
(7)

where $\bar{y}_{h}(t) = mean sport boat count in hour t on day type$ h $<math>N_{h} = number of days of type h in the month.$

The total monthly effort estimate is:

$$E = \sum_{h=1}^{2} E_{h} = \sum_{h=1}^{2} N_{h} \frac{\overline{y}_{h}(t)}{\overline{p}_{h}(t)}$$
(8)

Let \overline{c}_h be the estimated monthly catch per boat trip on day type h for a particular species (analogous to equation (4)). The total monthly catch estimate is:

$$C = \sum_{h=1}^{2} C_{h} = \sum_{h=1}^{2} \overline{c}_{h} N_{h} \frac{\overline{y}_{h}(t)}{\overline{p}_{h}(t)}$$
(9)

The estimation procedure essentially uses the proportion of daily sport boats fishing in the target hour, $\bar{p}_{h}(t)$, as

a "scale" factor to convert the "snapshot" sport fishing boat estimate to a total daily estimate of sport fishing boat trips. This daily estimate is converted to a monthly estimate of sport boat trips by multiplying by the number of like days in the month, and this monthly effort estimate is multiplied by the estimated catch per boat trip to generate a monthly estimate of sport catch.

FOOTNOTES

- 1. From several sources including unpublished 1977 and 1978 Campbell River creel survey results, historical sport fishery statistics from DFO [7], and mark-recovery data [3].
- 2. The 23 grouped areas represent the maximum number of areas considered. In winter months, due to less sport fishing activity, fewer landing areas are addressed.
- 3. No facilities were excluded on this criterion alone.
- 4. The sampled population is the population from which the sample is drawn and is a subset of the target population. The target population is that about which information is wanted ([6] p. 6 and [8] p. 23).
- 5. Including all private wharves, etc.
- 6. For a description of pps sampling, see Cochran, Chapter 9 [6] and Des Raj, Chapter 6 [8]. Malvestuto et al implement pps sampling in a roving creel survey [16].
- 7. The scale of 1 to 5 represents essentially a "rounding" of the boat traffic estimates.
- 8. Generally, sites classified as certainty sites during July and August continued to be sampled in the September through June period.
- 9. For May through October period, times refer to Pacific Daylight Time. For other months, times refer to Pacific Standard Time.
- 10. A minimum of two days sampling for each type are

required for variance estimates to be produced.

- 11. Fishing success or the temporal pattern of fishing activity within the day may vary significantly between the first and last weeks of a month. Selecting samples for each half month independently was an attempt to ensure that the sample chosen for each site was representative with respect to these two key parameters.
- 12. Non-fishing party responses are excluded.
- 13. The numerator and denominator of ratio estimators are random variables. Ratio estimators generally are biased, i.e., in repeated sampling the mean of the estimator is not equal to the true mean. However, the combined ratio estimator is consistent, i.e., the estimate is the true mean when the sample size equals the population size.
- 14. See [8] p. 105 and [6] p. 168.
- 15. In addition, a tenth daily fishing pattern corresponding to "Campbell River Guided" facilities was specified.
- 16. The weights are sub-Area catch divided by total Statistical Area catch.

4-19

5.0 DATA PROCESSING PROCEDURES -

The two primary data collection instruments underlying the study were an access point creel survey and an overflight survey. In section 3 we outlined the interview process and procedures taken to ensure that the access point creel survey was administered correctly. Following is an outline¹ of the data processing procedures and the steps taken to validate the data received.

The data collection, editing and analysis procedures were designed to:

- 1) insure the accurate capture of information from fishermen during a brief interview at the landing site;
- 2) transform this interview information to machine readable form without corruption;
- 3) produce reports that would give fishing parameter estimates to be used in conjunction with the overflight data to produce estimates of catch and effort.

5.1 Data Capture Issues

Our initial requirement was to be able to administer the form quickly (under five minutes) with a high degree of accuracy. We also required that data entry be possible directly from the form without a coding step. The objective was to obtain over 90% good forms through the first editing stage.

5.1.1 Testing

The data capture form was revised four times in June, 1980 during field tests to determine what data were being captured accurately. The surveyors alerted us to confusing questions and to the difficulty of recording time block information.

5.1.2 Coding Issues

There were eight possible species and up to three fishing areas per boat trip. Each species could be caught or released in any of 10 areas. The use of a matrix data entry format would have been prone to error due to the number of cells (10x8x2) and there would be no way to check the entry once it was recorded. We decided to use a shorthand notation that allowed the surveyor to enter only the information that was received and to enter it in the order that it was given (see the sample form in Appendix B).

The shorthand notation that was used consisted of а species code preceded by a number indicating how many of that species were caught or released. Information could be entered for up to three Statistical Areas per boat trip. and The shorthand notation was used for catch, released, marked/non-marked entries. It was entered as a two-digit number followed by a two-letter species code. The data program later expanded the shorthand toediting 3. fixed-field entry when it created the Interview Record.

5.1.3 Time of Fishing

The time of fishing data presented a problem since it may or may not be continuous. Hand writing the information would have been a problem for data vertification because of the numeric nature of the data and because we required the information in one-hour blocks. After testing a couple of graphic representations during the month of June, 1980, we chose an explicit listing of the one-hour time blocks with the surveyor circling each of the hour blocks whenever there was at least one half-hour of fishing in that block.

5.1.4 Verification

In order to obtain detailed location-of-catch information, the data collection forms were printed with maps on the reverse side. Four maps were used to cover the entire Georgia Strait so that each site's interview forms covered the widest possible fishing area. The surveyor recorded the area(s) of fishing and the catch for that area on the map as well as on the face of the form. This provided a second source of information that helped resolve ambiguous or missing entries.

5.1.5 Site Summaries

Each work stint was summarized on a single page "Tally Sheet" that recorded boat traffic at the site on an hourly basis. The interviewers entered a count of the number of vessels landing, the number of interviews attempted, the number of interviews completed and the number uncompleted. A space was provided for both a stick count and a numeric count for each type of entry.

Weather information was recorded on a work-block basis (i.e., 7am-11am, 11am-3pm, 3pm-7pm, 7pm-11pm) at the bottom of the form. Additional control information was entered at the top of the form. This control information included beginning and ending form numbers, site name, site code, date, interviewer's name and shift times. Much of this information duplicated information on the interview form and provided us with a mechanism for reassembling the sheets when they became separated.

The practice was to attach the Site Summary Tally Sheet to

the group of interview forms to which they applied. The Site Summaries were then coded on a data entry form and entered into the computer separately from the interviews. The records produced from the Site Summaries were called Site Summary Records (SSR).

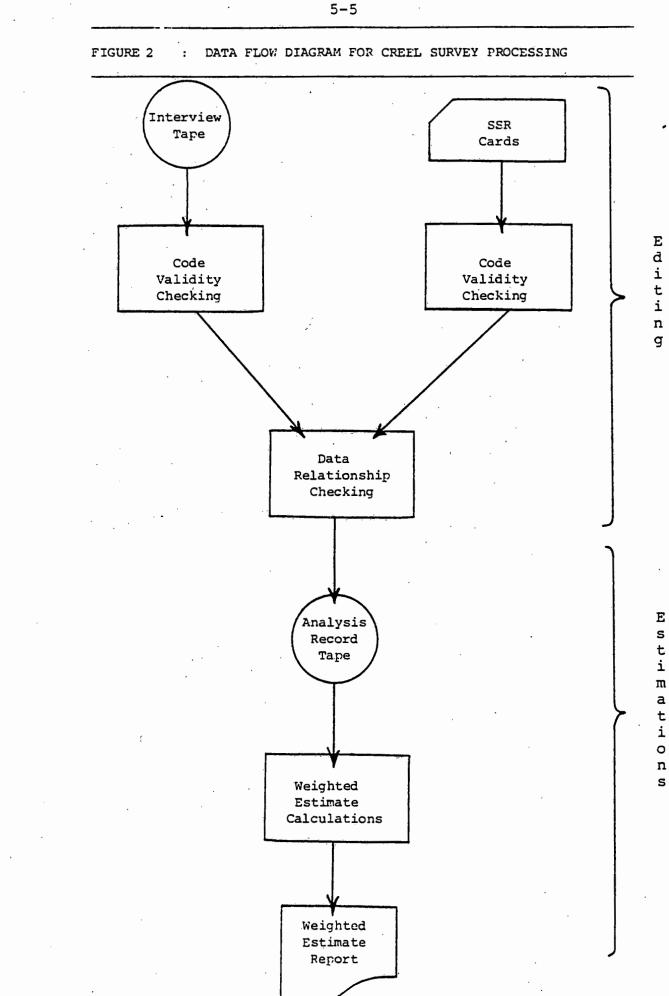
5.2 Data Processing Issues

The data processing for the Creel Survey was divided into two stages: the editing stage and the estimation stage (Figure 2). In the editing stage the interview forms and the Site Summary Records were passed through separate programs that check for invalid data. A third program was used to combine the data into an Analysis Record. In the estimation stage the Analysis Record was used to produce estimates at the required level of aggregation.

5.2.1 Editing Stage

Initially, a manual edit of the questionnaires and the covering tally sheets was conducted in order to verify that the correct identifying information and key responses were completed and legible. At a service bureau, the interviews and tally sheets were entered on to magnetic tape directly from the forms. For each type of record (interview records and SSR's), specific validation programs were used to detect data entry errors and inconsistencies between data elements. The following are examples of the type of inconsistency errors detected:

- 1) Hours of fishing must be less than or equal to time of landing.
- 2) Number of hours of fishing must be less than or equal to length of the boat trip.
- 3) Number of kept fish by species over all statistical areas must equal the total by species in the creel.
- 4) Number of marked plus unmarked coho or chinook must



and the second

total the number of coho or chinook in the creel.

Corrections were made to the erroneous record via a batch command file and an updated data file was created. This error detection/error corrrection and file updating cycle was repeated as many times as necessary to bring the error rate down to an 'acceptable' level. From an initial interview rejection rate of 7%, a final error rejection rate of less than one half of one percent was realized. A substantial effort was invested in data editing due to a selection bias in the error detection process. Interviews with salmon in the creel were more likely to be rejected², and hence if we had based the catch per unit effort estimation on only those interviews passing the first editing stage, it likely would have led to biased results.

5.2.2 Estimation Stage

After individual editing of the interview records and SSR's was completed, a third editing step involving comparing the two data sets for consistency occurred. The main validity checks were:

- 1) to identify cases where interviews on a given date existed but no corresponding SSR existed (or vise versa), and
- 2) to check that the number of interviews conducted was less than or equal to the number of boats recorded in the SSR.

After discrepancies were reconciled, aggregate records (the 'Analysis Records') were created which summarized the interview and SSR information on a 'landing time block' basis.³

5.3 Estimation Procedures

A program was developed to read the Analysis Records and to construct 'weighted' estimates [according to equation (3) in Section 4.2.2] of average fishing trip characteristics on a monthly and landing site basis. For each month/landing site combination a one-page letter size report was constructed which summarized the facilities sampled, the sampling intensity (number of days sampled, number of interviews, etc.) and total and average monthly fishing trip parameters estimates for those sites sampled. These data were then integrated with the overflight data to produce the catch and effort estimates.

FOOTNOTES

- 1 Details of the data processing steps, along with data flow diagrams, file formats and program listings can be found in Appendices S, T, U, V and W.
- 2 Over 50 percent of fishing parties interviewed caught zero fish.
- 3 Four potential time blocks exist, namely: Before 11:00 AM, 11:00 - 2:59 AM, 3:00 PM - 6:59 PM, and 7:00 PM or later.

The primary intent of this study was to estimate the following quantities by month and Statistical Area for Georgia Strait:

- . the coho and chinook catch by sportfishermen,
- . the fishing effort expended in achieving these catches, and
- . the proportion of marked coho and chinook in the sports catch.

In preceeding sections, we have outlined the survey effort and the methodology employed to generate these basic sport fishery statistics. In this section, the statistical estimates are presented.

For theperiod July 1980 to June 1981 an estimated 877 thousand salmon were caught by sportfishermen in Georgia Strait (Table 4). Of this total salmon catch, 537 thousand were coho (Table 5) and 324 thousand were chinook (Table 6) with the remainder being pink, chum, sockeye, steelhead or sea running cutthroat trout. The effort expended in achieving these catches was fishing estimated to be 724 thousand boat trips (Table 7). The proportions of marked coho and marked chinook in the sports catch are reported in Tables 8 and 9.

Standard errors corresponding to the estimates also are presented in Tables 4 through 9.¹ From this information, one can construct statistical interval estimates corresponding to a specified precision level for the sport fishery parameters of interest. For example, a 95 percent confidence interval estimate for the 12 month total salmon catch is 839 thousand to 916 thousand salmon.² As well as the annual level of sport fishing catch and effort, the distribution of these basic parameters over time and space is of interest to sport fishery managers. Over the 12 month study period, 83 percent of the salmon catch was realized in the May through September (summer) period and 43 percent of the catch was caught in Statistical Areas 13 and 14 (see below). Little of the Statistical Area 13 and 14 catch was caught during winter (October through April). In contrast, the sports catch in the Victoria general area (Statistical Areas 19A and 19B+) is split equally between summer and winter periods.

| Statistical Areas | May through Sept | Oct through Apr | Total Year |
|--|------------------------------------|---------------------------------|-------------------------------------|
| 13/14 15/16 17/18 19A/19B+ 28/29 | 41.7 13.7 13.1 7.3 7.4 | 1.8 1.8 4.2 7.2 1.8 | 43.5 15.5 17.3 14.5 9.2 |
| Total | 83.2 | 16.8 | 100.0 |

[]

. [

Percent of Total Salmon Catch

Weighted⁵ estimates of the salmon catch per unit effort for each of the grouped landing site areas by month is given in Appendix G. In Appendices L through R unweighted estimates corresponding to the simple averages over all interviews of catch per unit effort and other fishing trip characteristics are reported.

A significant outgrowth of the study is the construction of a detailed database to support future analysis of the Georgia Strait sport fishery. To illustrate the potential for such "downstream" use of the data collected, we summarize the relative catch distribution between boating parties in Table 10. Of the greater than 40 thousand fishing boating parties interviewed, over 50 percent

6-2

caught zero salmon whereas only 2.5 percent of parties "limited out" (i.e., number of salmon caught was greater or equal to 4 times the number of party members). Additionally, one can investigate the temporal fishing pattern of sport fishing activity during the day (see Figure 3 for example). Such information is critical to the design of future surveys.

In the next section (Section 7) we outline limitations to the study and the sport fishery parameter estimates generated. However, some comment is warranted at this time concerning the interpretation of the results. The estimates refer explicitly to sport fishing activity during the study period -- July 1980 through June 1981 -and it is not known whether or not this is a "typical" 12 month period. One can not necessarily view the estimates as being applicable to past or future (calendar) years. Year to year variation in sport fishery activity is related mainly to:

. long term trends in angler participation

. variation in fishing success (catch per unit effort) by species between years,

. variation in weather between years, 4 and

. changes in sport fishery regulations between years.

Consequently, any extrapolation of study results to other time periods is speculative.

| | | | | , | | | | | | | | |
|---------|--------------|--------------------|--------------|--------------|--------------------|-------|--------------|---------------|--------------|--------------|--------------|--|
| | | STATISTICAL AREA** | | | | | | | | | | |
| | <u>13</u> | <u>14</u> | <u>15</u> | 16 | <u>17</u> | 18 | <u>19A</u> | <u>198+</u> | 28 | <u>29</u> | Total | |
| | | | | | ('(| 00) | | | | | | |
| JUL | 83.7 | 53.3 | 5.7 | 42.9 | 39 [.] .9 | 18.1 | 4.2 | 12.0 | 5.8 | 13.3 | 278.9 | |
| | (6.4) | (4.6) | (0.5) | (5.1) | (3.7) | (4.7) | (0.6) | (2.2) | (0.9) | (2.0) | (11.6 | |
| AUG | 55.7 | 25.5 | 5.9 | 21.7 | 11.4 | 12.9 | 7.6 | 8.0 | 9.6 | 10.0 | 168.3 | |
| | (2.6) | (2.1) | (1.4) | (2.2) | (1.2) | (1.6) | (1.0) | (1.0) | (1.8) | (1.3) | (5.4 | |
| SEP | 31.1 | 14.5 | 2.3 | 12.0 | 4.7 | 2.5 | 7.2 | 11.8 | 6.7 | 3.8 | 96.6 | |
| | (3.8) | (1.9) | (0.7) | (2.6) | (0.8) | (0.6) | (1.2) | (1.6) | (1.8) | (0.4) | (5.7 | |
| OCT | 1.7 | 4.9 | 1.5 | 3.4 | 4.8 | 2.4 | 3.3 | 4.3 | 0.6 | 1.2 | 28.1 | |
| | (1.0) | (1.6) | (0.9) | (3.8) | (0.9) | (0.9) | (0.8) | (0.6) | (0.2) | (1.2) | (4.8 | |
| NOV/DEC | 0.2 (0.1) | 0.6 - (0.3) | 0.4 (0.2) | 1.8 (0.4) | 3.1 (1.2) | | 4.9 (0.8) | 18.3 (2.2) | 3.4 (1.4) | 1.6 (0.6) | 37.3 (3.2 | |
| JAN/FEB | 2.0 | 1.0 | 0.5 | 0.5 | 11.0 | 3.2 | 6.9 | 10.5 | 2.5 | 2.6 | 40.7 | |
| | (0.7) | (0.7) | (0.7) | (0.3) | (2.7) | (1.1) | (1.1) | (1.7) | (0.5) | (0.6) | (3.8 | |
| MAR | 0.3 | 0.5 | 0.1 | 1.2 | 3.5 | 1.2 | 1.3 | 9.5 | 1.1 | 1.1 | 19.8 | |
| | (0.1) | (0.3) | (0.1) | (0.4) | (0.8) | (0.3) | (0.2) | (1.2) | (0.3) | (0.4) | (1.7 | |
| APR | 1.3 | 3.1 | 0.5 | 5.8 | 4.8 | 0.3 | 1.1 | 3.4 | 0.8 | 0.8 | 21.9 | |
| | (0.6) | (0.9) | (0.3) | (2.7) | (1.2) | (0.1) | (0.2) | (0.8) | (0.3) | (0.8) | (3.4 | |
| MAY | 9.8 | 17.6 | 0.4 | 14.3 | 9.3 | 2.0 | 2.4 | 4.9 | 4.2 | 4.4 | 69.3 | |
| | (1.2) | (1.7) | (0.1) | (3.4) | (2.2) | (0.3) | (0.6) | (1.1) | (1.5) | (1.0) | (5.1 | |
| JUN | | 40.0 (7.5) | | | | | | | | | | |
| | | 161.0 (9.6) | | | | | | | | | | |

*Kept fish only

**Standard error of estimate in brackets.

6-4

| | | · | S T | ATIS | A L | A R E A ** | | | | | |
|---------|--------------|----------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|---------------|----------------|
| | <u>13</u> | <u>14</u> | 15 | 16 | <u>17</u> | 18 | <u>19A</u> | <u>198+</u> | <u>28</u> | <u>29</u> | Total |
| | | | | | ('0 | 00) | | | | | |
| JUL | 70.5 | 43.9 | 4.7 | 35.5 | 18.3 | 10.3 | 0.4 | 7:9 | 4.2 | 9.2 | 204.9 |
| | (6.1) | (4,3) | (0.5) | (5.0) | (2.2) | (4.1) | (0.1) | (2.1) | (0.8) | (1.9) | (10.6) |
| AÜG | 45.9 | 16.7 | 4.9 | 17.7 | 4.9 | 4.3 | 0.6 | 2.8 | 7.7 | 7.5 | 113.0 |
| | (2.4) | (1.9) | (1.4) | (2.1) | (0.7) | (0.9) | (0.5) | (0.5) | (1.7) | (1.1) | (4.7) |
| SEP | 27.5 | 8.9 | 1.6 | 8.2 | 2.0 | 1.3 | 1.4 | 3.1 | 5.4 | 2.8 | 62.2 |
| | (3.8) | (1.6) | (0.6) | (2.4) | (0.6) | (0.5) | (0.4) | (0.6) | (1.0) | (0.4) | (5.0) |
| OCT | 1.4 (1.0) | 2.5 (1.2) | 0.3 (0.3) | 0.9 (0.6) | 1.6 (0.4) | 0.5 (0.4) | 0.9 (0.4) | 0.7 (0.1) | 0.2 | 0.6 (0.2) | 9.6 (1.9) |
| NOV/DEC | - (-) | _ (-) | 0.1 | - (-) | 0.4 (0.5) | 0.2 (0.1) | 1.9 (0.5) | 1.2 (0.4) | - (-) | - (-) | 3.8 (0.8) |
| JAN/FEB | - | 0.3 | 0.4 | - | 0.5 | 0.3 | 2.7 | 0.9 | _ | _ | 5.1 |
| | (-) | (0.5) | (0.2) | (-) | (0.3) | (0.3) | (0.5) | (0.2) | (-) | (-) | (0.9 |
| MAR | 0.1 | 0.1 | - | 0.4 | 1.1 | 0.1 | 0.5 | 6.1 | - | 0.3 | 8.7 |
| | (-) | (0.1) | (-) | (0.2) | (0.4) | (0.1) | (0.1) | (1.1) | () | (0.2) | (1.2 |
| APR | 1.1 | 2.5 | - | 4.9 | 3.5 | 0.2 | 0.1 | 1.8 | _ | 0.1 | 14.2 |
| | (0.6) | (0.9) | (-) | (2.6) | (1.1) | (0.1) | (-) | (0.6) | (-) | (0.1) | (3.1 |
| MAY | 4.6 (0.8) | 14.8 (1.6) | 0.4 (0.1) | 6.4 (1.9) | | 0.2 (0.1) | 0.l (-) | 0.6 (0.2) | 0.6 (0.3) | 0.7 (0.2) | 35.4 (3.4 |
| JUN | 25.9 | 34.8 | 3.4 | 8.3 | 5.5 | 0.2 | 0.1 | 0.3 | 0.4 | 1.0 | 79.9 |
| | (5.4) | (7.3) | (1.3) | (2.5) | (1.3) | (0.1) | (-) | (0.1) | (0.1) | (0.4) | (9.6 |
| TOTAL | | 124.5 (9.2) | | | 44.8 (3.7) | 17.6 | 8.7 (1.0) | 25.4 (2.6) | 18.5 | 22.2 (2.3) | 536.8 (16.7 |

TABLE 5: ESTIMATED COHO CATCH* BY SPORTFISHERMEN IN GEORGIA STRAIT BY MONTH AND STATISTICAL AREA, JULY 1980 TO JUNE 1981

*Kept fish only

**Standard error of estimate in brackets

| | STATISTICAL | | | | | | | AREA** | | | | |
|---------|-------------|-------|-----------|-----------|-----------|-----------|------------|-------------|-------|-------|-------|--|
| | 13 | 14 | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> | <u>19A</u> | <u>198+</u> | 28 | 29 | Total | |
| | | | | | ('0 | 00) | | | | | | |
| JUL | 11.5 | 8.6 | 0.8 | 7.1 | 21.3 | | 3.7 | 3.9 | 1.6 | 3.9 | 68.4 | |
| • | (1.1) | (0.9) | (0.1) | (1.0) | (3.0) | (1.3) | (0.6) | (0.6) | (0.3) | (0.6) | (3.9) | |
| AUG | 9.0 | 8.2 | 0.9 | 4.0 | 6.3 | 7.1 | 6.9 | 5.0 | 1.4 | 2.0 | 50.8 | |
| | (0.6) | (0.8) | (0.3) | (0.6) | (0.9) | (1.3) | (0.9) | (0.9) | (0.4) | (0.4) | (2.4) | |
| SEP | | 5.4 | 0.7 | 3.7 | 2.7 | ,1.2 | 5.8 | 8.4 | 1.2 | 1.0 | 33.7 | |
| | (0.6) | (1.0) | (0.3) | (1.0) | (0.6) | (0.3) | (1.1) | (1.5) | (0.2) | (0.2) | (2.5 | |
| OCT | 0.3 | 2.0 | 1.2 | 2.5 | 3.2 | 1.8 | 2.3 | 3.6 | 0.4 | 0.6 | 17.9 | |
| | (0.2) | (1.0) | (0.8) | (1.6) | (0.8) | (0.8) | (0.7) | (0.6) | (0.2) | (0.1) | (2.5 | |
| NOV/DEC | 0.2 | 0.6 | 0.2 | 1.8 | 2.7 | 2.8 | 3.0 | 17.0 | 3.4 | 1.6 | 33.3 | |
| | (0.1) | (0.3) | (0.2) | (0.4) | (1.1) | (0.6) | (0.6) | (2.2) | (1.4) | (0.6) | (3.1 | |
| JAN/FEB | 2.0 | 0.7 | 0.1 | 0.5 | 10.5 | 2.9 | 4.1 | 9.6 | 2.5 | 2.5 | 35.4 | |
| | (0.7) | (0.5) | (0.1) | (0.3) | (2.7) | (1.1) | (1.0) | (1.7) | (0.5) | (0.6) | (3.7 | |
| MAR | 0.2 | 0.3 | 0.1 | 0.8 | 2.3 | 1.1 | 0.8 | 3.0 | 1,1 | 0.8 | 10.5 | |
| / | (0.1) | (0.2) | (0.1) | (0.4) | (0.7) | (0.3) | (0.2) | (0.4) | (0.3) | (0.3) | (1.1 | |
| APR | 0.2 | 0.6 | 0.5 | 0.9 | 1.3 | 0.1 | 1.0 | 1.2 | 0.8 | 0.7 | 7.3 | |
| | (0.1) | (0.2) | (0.3) | (0.6) | (0.5) | (0.1) | (0.2) | (0.4) | (0.3) | (0.2) | (1.0 | |
| MAY | 5.1 | 2.6 | - | 7.6 | 2.3 | 1.8 | 2.3 | 3.3 | 3.6 | 3.7 | 32.3 | |
| | (0.9) | (0.4) | (-) | (2.8) | (0.8) | (0.3) | (0.6) | (0.5) | (1.5) | (1.0) | (3.7 | |
| JUN | 8.0 | 3.5 | 0.3 | 3.2 | 5.2 | 2.6 | 2.0 | 3.9 | 1.9 | 3.5 | 34.1 | |
| | | (0.6) | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | 32.5 | | | | | | | | | | |
| | (2.6) | (2.1) | (1.0) | (3.8) | (4.7) | (2.5) | (2.2) | (3.5) | (2.3) | (1.7) | (8.9 | |

TABLE 6: ESTIMATED CHINOOK CATCH*BY SPORTFISHERMEN IN GEORGIA STRAIT

*Kept fish only

۱

** Standard error of estimate in brackets

6-6

| | | | | | TIC | A L | ARE | A | <u>,</u> | | |
|---------|--------------|--------------|--------------|--------------|-----------------|-------|--------------|--------------|--------------|--------------|---------------|
| | <u>13</u> | <u>14</u> | <u>15</u> | 16 | <u>17</u> | 18 | <u>19A</u> | <u>198+</u> | 28 | 29 | Total |
| | | | | | ('C | 00) | | | | | |
| JUL | 44.2 | 31.9 | 5.1 | 27.8 | 26.7 | 17.5 | 8.0 | 13.6 | 7.7 | 10.5 | 193.0 |
| | (3.7) | (3.2) | (0.3) | (3.1) | (3.4) | (2.3) | (1.0) | (2.1) | (1.0) | (1.9) | (7.8) |
| AUG | 35.5 | 24.3 | 5.6 | 21.5 | 17.9 | 14.9 | 8.9 | 11.0 | 13.0 | 11.1 | 163.7 |
| | (1.6) | (2.6) | (1.2) | (1.6) | (2.3) | (1.4) | (1.6) | (1.6) | (1.2) | (1.5) | (5.4) |
| SEP | 18.7 | 20.1 | 2.8 | 9.5 | 6.9 | 4.4 | 6.4 | 10.5 | 8.0 | 4.1 | 91.4 |
| | (2.2) | (2.4) | (1.0) | (1.5) | (1.2) | (0.4) | (1.1) | (1.2) | (0.8) | (0.5) | (4.4) |
| OCT | 1.2 (0.7) | 4.1 (1.5) | 0.8 (0.6) | 7.4 (4.2) | 4.2 (0.9) | | 4.7 (1.5) | 5.3 (0.5) | 1.8 (0.6) | 3.7 (1.0) | 37.3 (5.1) |
| NOV/DEC | 0.3 | 0.8 | 0.2 | 1.8 | 1.5 | 1.8 | 2.4 | 10.1 | 4.0 | 2.1 | 25.0 |
| | (0.1) | (0.3) | (0.1) | (0.3) | (0.6) | (0.3) | (0.4) | (1.0) | (0.7) | (0.6) | (1.6) |
| JAN/FEB | 1.8 | 0.7 | 0.3 | 1.4 | 4.4 | 2.9 | 4.8 | 7.2 | 3.7 | 3.9 | 31.1 |
| | (0.7) | (0.2) | (0.1) | (0.4) | (1.1) | (1.0) | (1.4) | (1.1) | (0.3) | (0.9) | (2.6) |
| MAR | 0.5 | 0.5 | 0.1 | 2.0 | 2.8 | 2.4 | 2.1 | 5.1 | 2.4 | 1.8 | 19.7 |
| | (-) | (0.1) | (0.1) | (0.6) | (0.5) | (0.5) | (0.2) | (0.4) | (0.4) | (0.5) | (1.2) |
| APR | 1.5 | 2.0 | 0.4 | 7.7 | 4.7 | 1.8 | 1.6 | 4.1 | 2.6 | 1.6 | 28.0 |
| | (0.4) | (0.4) | (0.3) | (3.4) | (1.1) | (0.2) | (0.1) | (0.3) | (0.3) | (0.2) | (3.7) |
| MAY . | 8.3 | 6.9 | 0.5 | 7.7 | 5.1 | 3.0 | 2.8 | 7.5 | 3.1 | 3.3 | 48.2 |
| | (1.1) | (0.8) | (0.1) | (1.2) | (1.3) | (0.4) | (0.7) | (0.7) | (0.9) | (0.8) | (2.8) |
| JUN | 23.7 | 16.9 | 1.7 | 8.5 | ⁸ .9 | 4.9 | 3.6 | 10.2 | 2.4 | 5.6 | 86.4 |
| | (4.6) | (3.0) | (0.5) | (1.2) | (1.4) | (0.5) | (0.7) | (1.0) | (0.3) | (0.8) | (6.0) |
| TOTAL | 135.7 | 108.2 | 17.5 | 95.3 | 83.1 | 57.7 | 45.3 | 84.6 | 48.7 | 47.7 | 723.8 |
| | (6.7) | (5.9) | (1.8) | (6.9) | (5.1) | (3.1) | (3.2) | (3.6) | (2.3) | (3.1) | (14.3) |

TABLE 7: ESTIMATED SPORT FISHING EFFORT* IN GEORGIA STRAIT BY MONTH AND STATISTICAL AREA, JULY 1980 TO JUNE 1981

*Sport boat trips

**Standard error of estimate in brackets

6-7

| | | | S | TATI | STIC | AL | AREA | A R E A ** | | | |
|---------|---------------------------|--------------------------------|-----------------------------|---------------------------|----------------|---------------------------|---------------------------|----------------|----------------|---------------------------|--|
| | 13 | 14 | 15 | 16 | 17 | 18 | 19A | 19B+ | 28 | 29 | |
| JUL | .073 (.004) | .042 (.003) | .034 (.008) | .045 (.006) | .023 (.005) | .075 (.026) | .000 (NA) | .015 (.004) | .127 (.020) | .091 (.007) | |
| AUG | .090 | .035 (.005) | .022 (.016) | .037 (.006) | .014 (.006) | .046 (.018) | .000 (NA) | .022 (.008) | .120 (.012) | .092 (.007) | |
| SEP | .069 (.013) | .039 (.012) | .000 (NA) | .022 (.014) | .041 (.022) | .000 (NA) | .000 (NA) | .000 (NA) | .130 (.022) | .046 (.008) | |
| OCT | .086 (.020) | .032 (.018) | .000 (NA) | .160 (.088) | .029 (.017) | .000 ^C (NA) | .013 (.013) | .019 (.013) | .091 (.061) | .148 (.068) | |
| NOV/DEC | NA | NA | .000 ^e (NA) | NA | .000 (NA) | .000 ^C (NA) | .000 (NA) | .014 (.014) | NA | NA | |
| JAN/FEB | NA | .059 ^a (.059) | .167 ^a (.110) | NA | .029 (.029) | .000 ^C (NA) | .004 (NA) | .006 (.006) | NA | NA | |
| MAR | .000 ^a (NA) | ,d .000 ^a , (NA) | d NA | .000 ^a (NA) | .000 (NA) | .000 ^C (NA) | .000 (NA) | .000 (NA) | NA | .000 (NA) | |
| APR | .045 (.044) | .105 (.029) | NA | .182 (.058) | .042 | .000 ^C (NA) | .000 ^b (NA) | .034 (.019) | NA | .000 ⁶ (NA) | |
| MAY | .074 (.016) | .059 (.006) | .176 (.057) | .068 (.029) | .125 (.026) | .000 ^C (NA) | .000 ^b (NA) | .069 (.030) | .000 (NA) | .015 (.010) | |
| JUN | .068 (.009) | .069 (.005) | .203 (.019) | .201 (.023) | .095 (.016) | .000 ^C (NA) | .000 ^b (NA) | .000 (NA) | .016 (.016) | .052 (.013) | |

*Kept fish only

a Based on only 10-20 observations. Other estimates are based on 20 or more observations b Data for April, May and June pooled c October to June data pooled d Data pooled for Statistical Areas 13 and 14 e Estimate NA not applicable

**Standard error of estimate in brackets

6-8

| | | | | | · | | | | | , |
|---------|-------------------|----------------|-------------------|-------------------|----------------|-------------------|----------------|----------------|-------------------|----------------|
| | | | S | ТАТІ | S T I C | AL | AREA | ** | | |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19A | . 19B+ | 28 | 29 |
| JUL | .021 (.006) | .006 (.001) | .023 (.011) | .030 | .010 (.003% | .025 (.011) | .003 | .012 (.005) | .035 (.015) | .033 (.006) |
| AUG | .051 | .025 | .008 | .032 | .016 | .017 | .006 | .013 | .033 | .058 |
| | (.010) | (.007) | (.008) | (.012) | (.006) | (.009) | (.004) | (.005) | (.019) | (.011) |
| SEP | .041 | .016 | .000 | .018 | .055 | .017 | .020 | .009 | .085 | .041 |
| | (.023) | (.009) | (NA) | (.018) | (.020) | (.017) | (.007) | (.005) | (.041) | (.014) |
| OCT | .000 | .019 | .006 | .021 | .023 | .000 ^a | .008 | .018 | .077 | .056 |
| | (NA) | (.019) | (.006) | (.016) | (.009) | (NA) | (.006) | (.005) | (.043) | (.027) |
| NOV/DEC | .000 | .000 | .000 | .080 | .030 | .078 | .000 | .003 | .036 | .035 |
| | (NA) | (NA) | (NA) | (.030) | (.013) | (.030) | (NA) | (.002) | (.020) | (.015) |
| JAN/FEB | .000 | .000 | .081 ^b | .081 ^b | .024 | 。005 | .005 | .004 | .035 | .012 |
| | (NA) | (NA) | (.045) | (.045) | (.006) | (.002) | (.003) | (.002) | (.017) | (.008) |
| MAR | .000 ^a | .000 | .081 ^b | .081 ^b | .009 | .087 ^C | .000 | .000 | , .018 | .022 |
| | (NA) | (NA) | .(.045) | (.045) | (.009) | (.059) | (NA) | (NA) | (.018) | (.022) |
| APR | .045 | .213 | .081 ^b | .081 ^b | .065 | .087 ^C | .017 | .010 | .000 ^a | .000 |
| | (.045) | (.059) | (.045) | (.045) | (.061) | (.059) | (.017) | (.010) | (NA) | (NA) |
| MAY | .037 (.013) | .047 (.011) | NA | .074 (.033) | .050 (.034) | .029 (.017) | .004 (.004) | .013 (.005) | .014 (.002) | .047 (.010) |
| JUN | .024 | .041 | .318 | .233 | .027 | .071 | .014 | .016 | .021 | .038 |
| | (.012) | (.009) | (.072) | (.066) | (.010) | (.033) | (.010) | (.007) | (.008) | (.009) |

TABLE 9: ESTIMATED PROPORTION OF MARKED CHINOOK IN CATCH* OF SPORTFISHERMEN IN GEORGIA STRAIT BY MONTH AND STATISTICAL AREA, JULY 1980 TO JUNE 1981

*Kept fish only

a Based on only 10-20 observations. Other estimtes are based on 20 or more observations b Data pooled for Statistical Areas 15 and 16 and months January, February and March

c Data pooled for March and April

NA not applicable

**Standard error of estimate in brackets

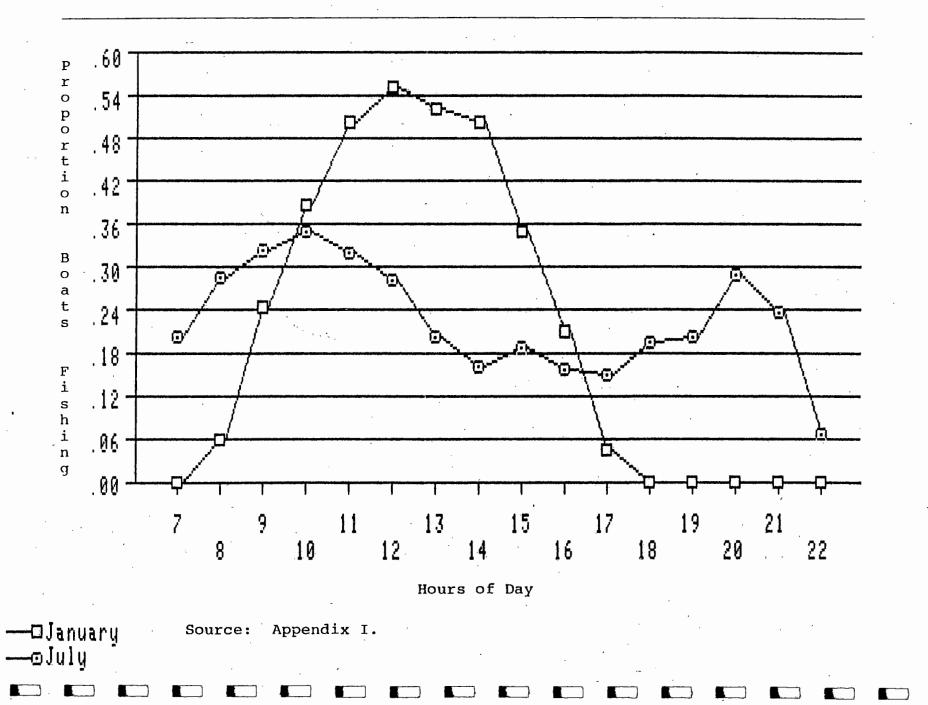


FIGURE 3: TIME OF FISHING PROFILES FOR JULY AND JANUARY WEEKDAYS, SAANICH INLET

6-10

TABLE 10 : DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, ALL REGIONS.

| | | No. of Interviews | PERCENT DISTRIBUTION OF NO. SALMONIDS IN CREEL | | | | | | | | | % of Boat Trips (1) | | | | |
|-----------|------|---------------------------|--|------|------|------|-----|-----|-----|-----|-----|---------------------|----|----|------------|-------------------------|
| Month | | (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of Salmonids |
| uly | 1980 | 12,517 | 49.6 | 19.0 | 11.1 | 7.1 | 5.0 | 2.3 | 1.9 | 1.3 | 1.7 | .2 | .2 | .1 | .5 | 2.4 |
| lugust | 1980 | 10,199 | 55.5 | 20.4 | 10.4 | 5.6 | 3.7 | 1.4 | 1.1 | .6 | .8 | .1 | .1 | .1 | .2 | 1.5 |
| September | 1980 | 3,337 | 54.2 | 21.3 | 10.6 | 5.8 | 3.4 | 2.0 | 1.1 | .5 | .6 | .1 | .1 | - | .3 | 1.3 |
| October | 1980 | 2,129 | 57.6 | 19.1 | 10.1 | 5.2 | 3.6 | 1.5 | 1.0 | .6 | .9 | .1 | .1 | .1 | .1 | 2.2 |
| lovember | 1980 | 533 | 50.8 | 18.6 | 8.8 | 7.5 | 6.2 | 2.8 | .9 | .2 | 3.2 | - | .6 | - | .4 | 5.8 |
| ecember | 1980 | 407 | 42.8 | 17.2 | 13.5 | 10.8 | 7.9 | 2.7 | 1.5 | 1.2 | 2.0 | .2 | .2 | - | - | 6.4 |
| lanuary | 1981 | 1,123 | 47.5 | 16.5 | 10.9 | 8.4 | 7.6 | 2.5 | 1.8 | 1.1 | 2.9 | .1 | - | .2 | .5 | 5.9 |
| ebruary | 1981 | 945 | 52.7 | 18.6 | 9.7 | 8.6 | 4.1 | 1.6 | 1.4 | .6 | 1.9 | .1 | - | .1 | .6 | 3.8 |
| larch | 1981 | . 805 | 60.6 | 15.4 | 10.3 | 4.7 | 4.7 | 1.7 | .6 | .4 | 1.0 | .4 | - | .1 | .1 | 3.0 |
| April | 1981 | 733 | 61.6 | 17.5 | 10.2 | 4.8 | 2.7 | 1.8 | .5 | .4 | | - | .1 | - | .4 | .8 |
| lay | 1981 | 3,387 | 48.6 | 19.0 | 11.6 | 7.5 | 5.5 | 2.3 | 1.9 | .6 | 2.3 | .3 | .1 | - | `.3 | 3.7 |
| lune | 1981 | 4,720 ⁽ | 49.3 | 19.2 | 11.0 | 6.0 | 5.6 | 2.2 | 1.7 | 1.4 | 2.2 | .3 | .3 | .2 | .6 | 3.9 |
| TOTAL | | 40,835 | 52.1 | 19.4 | 10.8 | 6.5 | 4,6 | 2.0 | 1.5 | .9 | 1.5 | .2 | .1 | - | .4 | 2.5 |

6-L

r

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

FOOTNOTES

- Estimated variances were calculated using Taylor series approximation methods (i.e., the delta method, [22] p.6. See Appendix K.
- 2. Confidence interval estimation procedures assume a normal distribution as the sampling distribution for each estimator. Empirical studies of the sampling distribution of ratio estimators, upon which our procedure depends, indicate that in practice the normal approximation performs well, [10], [15].
- 3. Weighted by the inverse of the sampling intensity realized (see Equation (3)).
- 4. One can compare temperature and precipitation during the 12 study months to long-term averages (see Appendix E).

7.0 LIMITATIONS

As with most survey efforts, the limitations or errors associated with the salmon catch and effort estimates produced in this study can be broadly categorized into sampling and non-sampling errors. Sampling errors are discussed in detail in Appendix K and are reported in Chapter 6. In this section we concentrate on identifying non-sampling errors associated with the surveys and, where possible, indicate the likely direction of bias or error arising therefrom.

schematic representation Figure is a of 4 error classification for the two survey instruments -- the creel survey and the overflight survey. The intent is not to be exhaustive of all survey limitations, but to highlight those limitations which impinge to the greatest extent on the accuracy of the estimates produced. For each survey, four broad non-sampling error classifications are identified, namely:

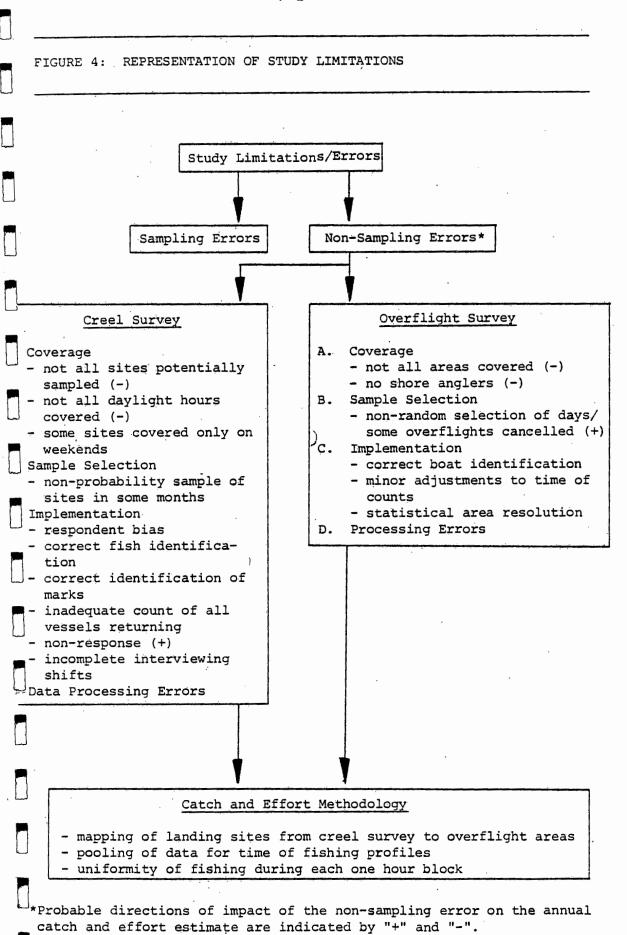
- . survey coverage
- . sample selection
- . implementation
- . data processing errors.

The first two correspond to methodological considerations, whereas the latter two relate to the operational phase of the surveys and the ensuing analysis.

7.1 The Creel Survey

There is a difference between the target population of all landing sites in the Georgia Strait area and the population of landing sites potentially sampled. Some sites were excluded due to expected low boat traffic volumes or due to the inaccessibility of the site to the

7 - 1



- 7-2

interviewing staff. In particular, all private access points, Stuart Island sites, and the Gulf Island sites were excluded. In addition, in some areas (e.g., Vancouver) charter boat operations were underrepresented in the sampling scheme. It is thought that fishing parties emanating from private wharves and charter operations would have "above average" fishing success for salmon and, therefore, on balance, differences between the sampled and target populations of landing sites would result in the salmon catch estimates generated being slightly underestimated.

(small) proportion of sport fishing boats would have Some landed outside the potential interviewing period or stint type in any given month. We think that the majority of such boats "missed" would be those landing before the morning shift starting time. Accordingly, the estimated proportions of boats fishing by hour would be overestimated (underestimated) for those hours after (before) the morning interviewing shift starting time. Since overflights occurred after this point, this error in proportion of boats fishing during each hour would get translated into a downward bias in the resulting total daily boat estimate.1

In terms of the actual implementation of the survey, as opposed to the survey methodology, several potential sources of error common to all surveys exist, including:

- . non-response bias
- . respondent error
- . incorrect administering of the questionnaire
- . processing errors.

We feel that such issues do not impact significantly on the results presented due to: the low refusal rate of less than 1% realized and the fact that some parties "over limit" were interviewed.

- the comprehensive training and monitoring program for field personnel undertaken.
- the low volume of forms rejected (at the manual or computer editing stage) of less than one-half of one percent.
- the extensive use of internal computer checks for the key response variables of time of fishing and salmon catch.

However, in some cases salmon identification and the identification of marks by the interviewer may have been in error. For example, high (unexplained) proportions of marks in the coho and chinook catches of Pender Harbour and Powell River fishermen during May and June, which could have been due to an identification problem, resulted in relatively large proportions of marked fish for Statistical Areas 15 and 16 for these months (Tables 8 and 9).

7.2 The Overflight Survey

Only the major regions of Georgia Strait were covered in the overflight survey for each month.² In addition, no count of shore anglers was conducted. Both these factors tend to result in the "snapshot" sport boat counts, and hence the fishing catch and effort estimates, being underestimates of total sport fishing activity.

Counterbalancing this, it was necessary to reschedule approximately 10% of overflights due to inclement weather resulting from poor visibility. However, overflights were conducted under rainy conditions (see Appendix D). We compared weather on overflight days to average monthly weather conditions (Appendix E). Based on these weather comparisons and on the few number of flights cancelled, we do not think that the annual fishing activity estimates produced are overestimated to any significant degree by the overflight day selection process. However, estimates for certain months (particularly April) may have been influenced to a greater degree by the choice of days flown.

In some areas, fishing statistical boundaries pass through major sport fishing grounds. Consequently, the geographic resolution in "snapshot" counts, and the resulting estimates, may be poor. For example, in summer months the resolution between Statistical Area 28 and 29 estimates is poorer than for other areas due to the concentration of sport boats off Bowen Island and Gower Point.

7.3 Catch and Effort Methodology

A major feature of the methodology for estimating catch construction of a mapping or the and effort is correspondence between areas of landing from the creel survey and areas of fishing from the overflight survey. In general, the actual correspondence of grouped landing sites and fishing grounds is not "one to one" with fishermen from more than one grouped landing site fishing particular fishing ground and fishermen from а. a. particular grouped landing site fishing more than one ground.

It was noted that certain regions were not covered in the creel survey. Consequently, it was necessary to allocate "related" times of fishing and catch per boat trip parameters to these fishing regions. For example, characteristics of Campbell River guided operations were applied to the Stuart Island region. This problem of imputation becomes more severe during winter -- a time in which interviewing took place at fewer landing sites than in summer. Consequently, it was necessary to allocate the intensive fishing parameter estimates of a specific site to a broader geographic region. Due to the lack of interviewing in the south Gulf Islands area, it is thought that this problem of imputation is most severe for Statistical Area 18.

7.4 Some General Observations

Estimates corresponding to different Statistical Areas and to different months are of different "quality" with respect to non-sampling errors. This results from the interplay of the following:

- different geographic characteristics of each Statistical Area
- . the availability of interviewers in different regions
- . different mixes of landing site classes (government and commercial marinas, boat ramps, private access points, charter operations, etc.)
- . different quality in interviewing staff.

Generally, one would expect creel survey data reliability to be poorest during times of major training efforts (July, 1980 and May/June, 1981) due to "start up" problems. Due to the predominace of private access points relative to public or commercial access points in the Pender Harbour region and due to the vast geographic boundaries of Statistical Area 16, one would expect estimates for this area to be the most suspect of those Statistical Areas considered. In contrast, estimates corresponding to Saanich Inlet (Statistical Area 19A) are thought to be the most reliable.

non-sampling errors do exist. However, In sum. the adoption of rigorous statistical procedures and the large scale of the survey effort, as embodied by the 136 overflight trips and the 41 thousand fishing party interviews, ensure that the Georgia Strait annual fishing activity estimates presented do not suffer from significant biases or sampling variability.

FOOTNOTES

- 1. Daily boat estimate is the average number of boats fishing during a particular hour (from the overflight survey) divided by the proportion of daily boats fishing during that same hour (from the creel survey data).
- 2. In some cases judgemental estimates of sport boat counts in areas not covered by overflights were made, e.g., the Egmont area in March and April (see Appendix D).

REFERENCES

- 1. Anon, "1975 Survey of Sportfishing British Columbia Tidal Waters Summary of Results", Prepublication Release for West Coast Oil Ports Inquiry, Recreational Fisheries Branch, Fisheries and Marine Service, Ottawa, October, 1977.
- Argue, A.W. Preliminary Information from the 1973 and 1974 Canadian Chinook and Coho Catch Sampling and Mark Recovery Program, Canada Department of the Environment, Fisheries Service Pacific Region, Technical Report Series PAC/T-76-9, 1976.
- 3. Argue, A.W., J. Coursley and G.D. Harris, <u>Preliminary</u> <u>Revision of Georgia Strait and Juan de Fuca Strait</u> <u>Tidal Salmon Sport Catch Statitstics</u>, 1972 to 1976, <u>Based on Georgia Strait Head Recovery Program Data</u>, <u>Fisheries and Environment Canada</u>, <u>Technical Report</u> <u>Series</u>, PAC/T-77-16, Vancouver, 1977.
- 4. Argue, A.W. and K.R. Pitre, <u>Distribution of Commercial</u> and Sport Vessels Fishing Pacific Salmon in Southern British Columbia Marine Waters, Based on Overflights from 1965 to 1971, Department of Environment, Pacific Region, Technical Report, 1972-3.
- Bailie, J.G. and J.H. Gough, "An Alternative Method of Surveying International Travellers at Frontier Points -- Pilot Auto Exit Survey Second Quarter, 1974", Statistics Canada, February 11, 1976.
- 6. Cochran, W.G., <u>Sampling Techniques</u>, John Wiley and Sons, 1963.
- 7. Department of Fisheries and the Environment, <u>1976</u> Salmon Sport Fishing Catch Statistics, Vancouver, July, 1977.
 - 8. Des Raj, Sampling Theory, McGraw Hill, 1968.
- 9. Fraidenburg, M.E. and G.G. Bargmann, <u>Comparison of</u> <u>Several Survey Methods for Estimating Recreational</u> <u>Fishery Statistics in Washington's Seattle-Bremerton</u> <u>Salmon Punch Card Area</u>, State of Washington, Technical <u>Report Series</u>, September, 1980.
- 10. Frankel, M.R. Inference from Survey Samples An Empirical Investigation, Institute for Social Research, The University of Michigan, Ann Arbour, Michigan, 1971.
- 11. Geldern, Jr., C.E. and P.C. Tomlinson, "On the Analysis of Angler Catch Data from Warmwater

Reservoirs", <u>California Fish and Game</u>, Vol. 59, No.4: 281-292, October, 1973.

- 12. Goodman, L.A. "On the Exact Variance of Products", Journal of the American Statistical Association, Vol. 55: 708-713, 1960.
- 13. Gough, J.H. and P.D. Ghangurde, "An Alternative Method of Surveying International Travellers at Frontier Points -- Methodolgy Report", Household Surveys Development Staff, Statistics Canada, April, 1976.
- 14. Harrison, M. Resident Boating in Georgia Strait 1979 Update, Fisheries and Marine Service Manuscript Report #1538, Vancouver, October, 1979.
- 15. Kish, L. and M.C. Frankel, "Inference from Complex Samples", Journal of the Royal Statistical Society, Series B, Vol. 36: 1-37, 1974.
- 16. Malvestuto, S.P., W.D. Davies & W.L. Shelton, "An Evaluation of the Roving Creel Survey with Nonuniform Probability Sampling", <u>Transactions of the American</u> Fisheries Society, Vol. 107, No.2: 255-262, 1978.
- 17. Malvestuto, S.P. and W.D. Davies, "Predicting the Precision of Creel Survey Estimates of Fishing Effort by Use of Climatic Variables", <u>Transactions of the</u> <u>American Fisheries Society</u>, Vol. 108: 43-45, 1979.
- 18. Oguss, E., Beak Consultants, "The Chinook Populations and Sport Fishing Parameters of the Kitimat Area, 1980", Report Prepared for the Department of Fisheries and Oceans, Vancouver, BC, March, 1981.
- 19. Ricker, W.E. Computations and Interpretation of Biological Statistics of Fish Populations, Journal of the Research Board of Canada, Bulletin 191, Ottawa, 1975.
- 20. Robson, D.S. "An Unbiased Sampling and Estimation Procedure for Creel Censuses of Fishermen", <u>Biometrics</u>, Vol. 16, No. 2: 415-437, 1961.
- Robson, D.S. "On the Statistical Theory of a Roving Creel Census of Fishermen", <u>Biometrics</u>, Vol. 17, No. 3: 415-437, 1961.
- 22. Seber, G.A.F. The Estimation of Animal Abundance and Related Parameters, Griffin, London, 1973.

THE GEORGIA STRAIT SPORT FISHING CREEL SURVEY VOLUME II

STATISTICAL APPENDICES

Prepared for:

.

Department of Fisheries and Oceans Pacific Region Vancouver, BC Prepared by:

DPA Consulting Limited Vancouver, BC

September, 1982

PREFACE

The results of the Georgia Strait Sport Fishing Creel Survey are reported in five volumes. In Volume I, Main Report, the approach and statistical methodoloy are outlined, and the sport fishing catch and effort estimates presented. Additional detail concerning are the underlying data base and methodology is documented in Volume II, Supporting Statistical Appendices. In Volume III, Data Processing Documentation, the computer software developed to process and edit the creel survey data is The structure of future creel surveys presented. is addressed IV. in Volume Future Creel Survey Considerations. Finally, in Volume V, Grouped Landing Site Summaries, summary creel survey computer output for each month is presented.

LIST OF APPENDICES

| A: | The | Creel | Survey | Questionnaire | |
|----|-----|-------|--------|---------------|--|
|----|-----|-------|--------|---------------|--|

- B: 1980/81 Georgia Strait Sport Fishing Creel Survey Surveyors' Manual
- C: Overflight Paths
- D: Overflight Sport Fishing Boat Count
- E: Weather Information for Selected Georgia Strait Reporting Stations
- F: Verification of Overflight Counts
- G: Weighted Estimates of Salmon Catch per Boat Trip
- H: Weighted Daily Fishing Profiles
- I: Catch, Effort and Proportion of Marked Fish Estimation
- J: Vancouver Sun Derby Day Estimates
- K: Variance Estimation
- L: Kept Fish Summaries from the Georgia Strait Creel Survey Raw Data
- M: Released Fish Summaries from Georgia Strait Creel Survey Raw Data
- N: Marked/Unmarked Fish Summaries from Georgia Strait Creel Survey Raw Data
- O: Party Characteristics Summaries from Georgia Strait Creel Survey Raw Data
- P: Fishing Effort Summaries from Georgia Strait Creel Survey Raw Data
- Q: Fishing Method and Tackle Summaries from Georgia Strait Creel Survey Raw Data
- R: Distributions of Salmonid Catch from Georgia Strait Creel Survey Raw Data

APPENDIX A

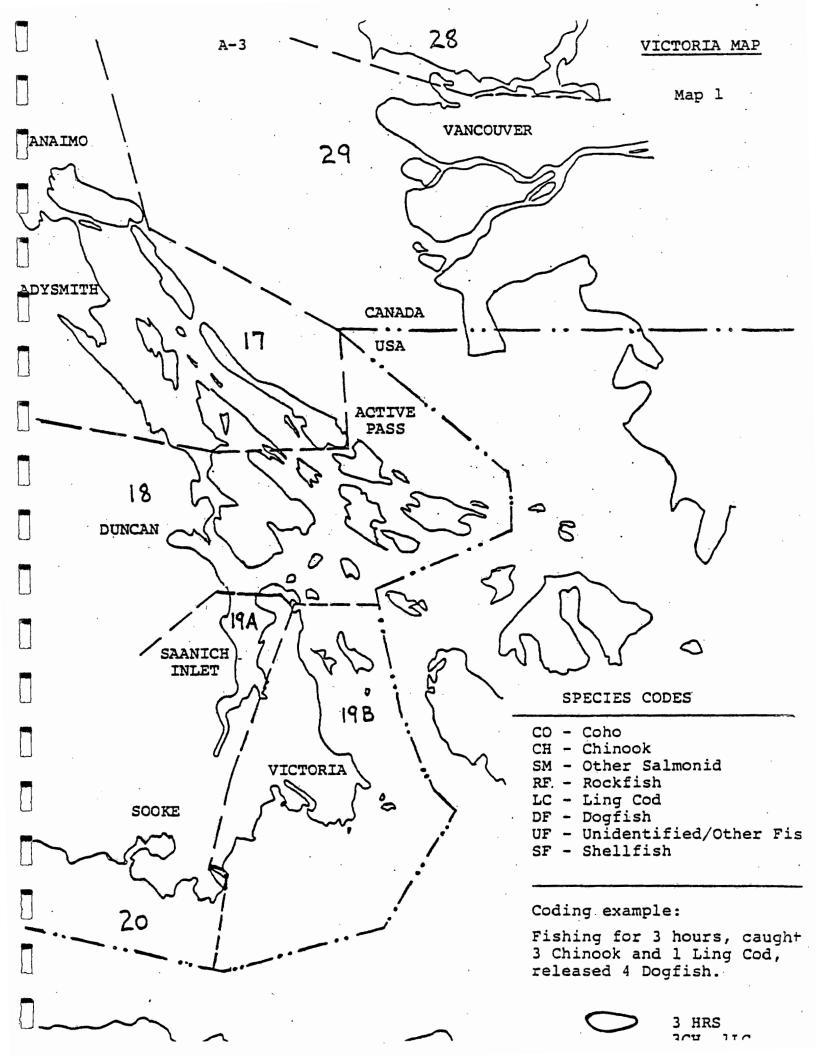
THE CREEL SURVEY QUESTIONNAIRE

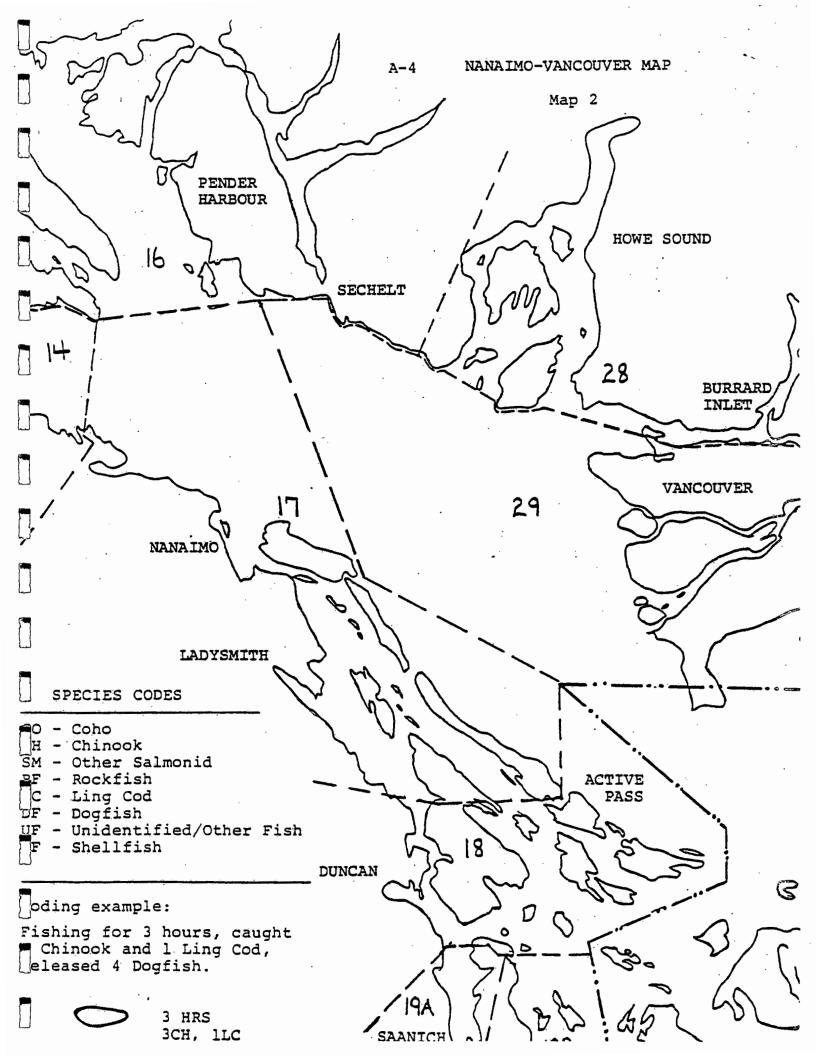
There are four types of questionnaires. Each type has the same sequence of questions on the front face, with a different Georgia Strait sub-region map on the reverse. Following is a copy of the questionnaire with each of the four types of maps. Thereafter, the questionnaire is described on a question by question basis.

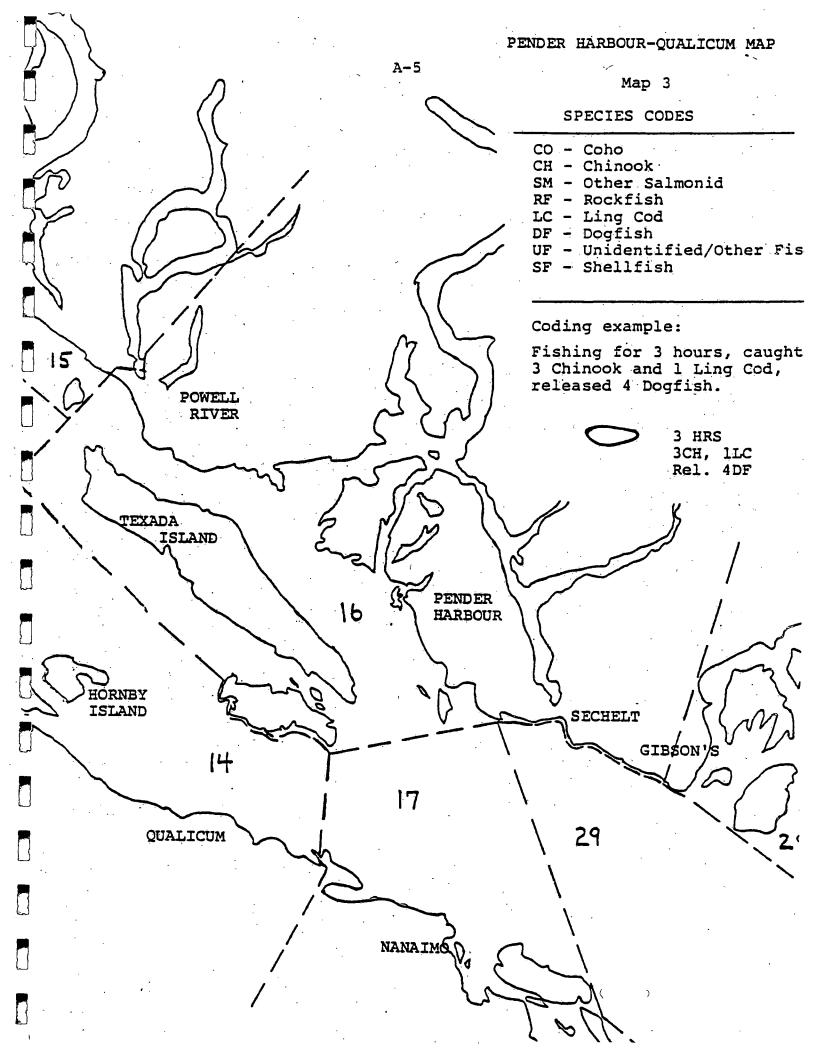
Á-1

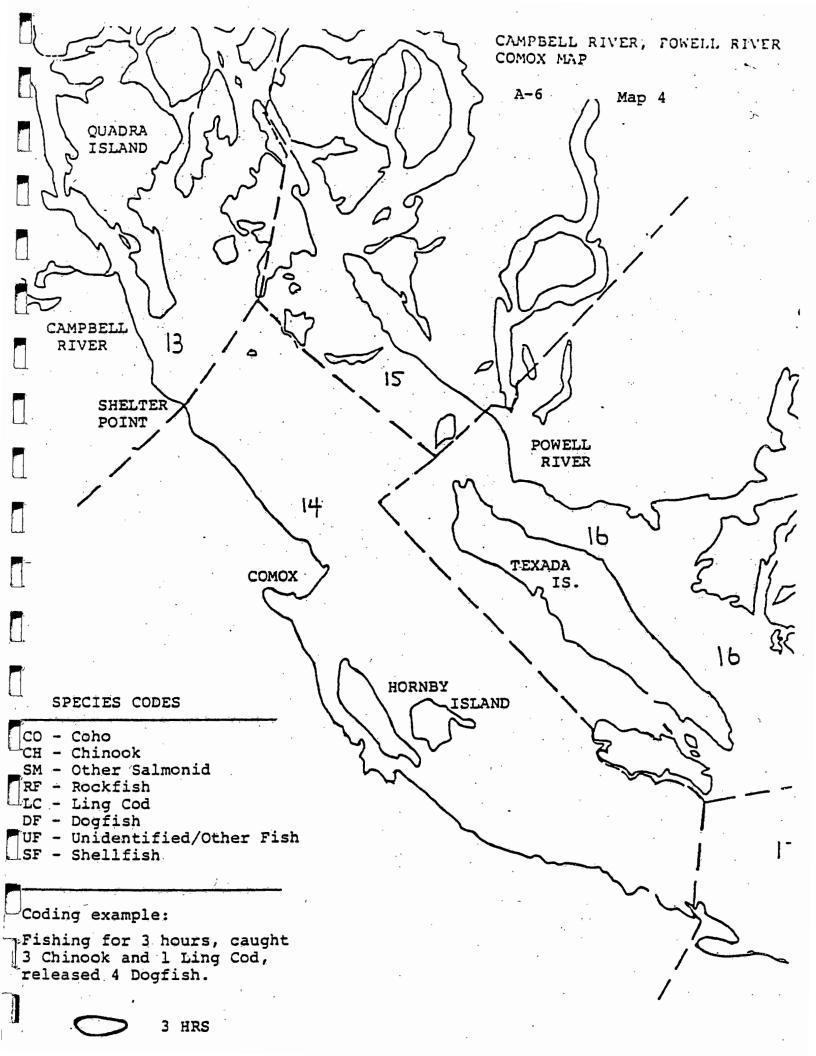
Π

| | | A-2 1980 GEORGIA STRAIT SPORT FISHING CREEL SURVEY 00001 |
|------------|------|---|
| | | Landing Site / Statistical Area |
| مرب ا | | Interviewer Date 80 Time : AM |
| | I. | PRESENT BOAT TRIP COMPLETED |
| — 1 | 1. | Vessel Characteristics: |
| | | Length: Propulsion: Ownership: Guided: (1) Less than 16' (1) inboard (4) sail (0) rented or (0) Yes |
| | | (2) 16'-30'11" (2) outboard (5) row chartered (1) No (3) 31' and up (3) in/outboard (6) other (1) private |
| m | 2. | Time of Landing PM Time Block |
| | 3. | Number of Individuals in Party: 1-15 yrs 16+ yrs Total |
| | 4. | Residences of Party: BC Rest of Canada Other |
| | 5. | Length of Boat Trip hrs |
| | 6. | Did your party fish in the Georgia Strait on this trip? Yes No |
| . 🚎 | . 7. | What was the main species at which fishing effort was directed? |
| | | (1) salmon (2) groundfish (3) shellfish (4) Other (5) non-specific |
| P - | 8 | Times Lines were IN the water (EXCLUDE time not fishing) AM PM |
| <u> </u> |) | (1) before 7:00(4) 9:00-9:59(7) 12:00-12:59(10) 3:00-3:59(14) 7:00-7:59(2) 7:00-7:59(5) 10:00-10:59(8) 1:00-12:59(11) 4:00-4:59(15) 8:00-8:59 |
| | ٠. | (3) 8:00-8:59 (6) 11:00-11:59 (9) 2:00-2:59 (12) 5:00-5:59 (16) 9:00 plus (13) 6:00-6:59 |
| | | |
| | 9. | Average number of lines in water for TOTAL boat party |
| | 10. | Fishing method: DR TR MO CA PL JI OT 11. Terminal tackle; Bait Lure Other |
| | 12. | Catch Summary 1st Stat Area 2nd Stat Area 3rd Stat Ar |
| | | Total Creel for Trip |
| | | GO Kept |
| Ļ | | |
| | | Total Time Fishing |
| | | hrs Time hrs hrs hr |
| | | MUU |
| | -13. | Cor ID Salmon: Yes No N/A 14. Cor ID Non-Salmon: Yes No N/A |
| k T | 15. | Expected number of fishing boat trips for this vessel today (INCLUDING THE ONE JUST |
| 17 J | וה | COMPLETED) |









CREEL SURVEY QUESTIONNAIRE DESCRIPTION

Administrative Information

Landing Site: The name of the landing site from which the interview is conducted plus its respective ID number.

Statistical Area: The statistical area in which the landing site is located.

Interviewer: Full name plus respective ID number.

Date: Year, month, day in numbers, e.g., June 8, 1980 should be coded as 80/06/08.

Time: The time of interview -- hours and minutes.

Question 1: Vessel Characteristics

Length: Length class of boat in feet.

Propulsion: This question refers to the main mode of transport, e.g., a sailboat with an outboard auxiliary is still a sailboat.

Ownership: Rented or charter -- refers to a paying trip. Private -- can refer to a loaned or borrowed boat as well, as long as it is not a paying trip.

Guided: For a trip to be guided a payment must be made to the guide.

Question 2: Time of Landing

Time of Landing: Exact time of landing.

Time Block of Landing: Refers to blocks listed in question #8.

Question 3: Number of Individuals in Party

Number of People in the Boating Party (including individuals not fishing and guides): 1-15 yrs 16+ yrs total -- the sum of the above

Question 4: Residences of Party

BC Rest of Canada Other

The total should equal the total in Question #3.

Question 5: Length of Boat Trip

Number of Hours: to the closest half hour.

Question 6: Did Your Party Fish in the Georgia Strait on This Trip?

Any time spent fishing for any type of fish, including shellfish, in the Georgia Strait (and including the portion of Juan de Fuca Strait in Area 20).

Question 7: What Was the Main Species at Which Fishing Effort Was Directed?

Only one of the five categories is to be indicated. If fishing for anything or many species, "non-specific" is marked.

Question 8: Times Lines were in the Water

(Exclude time not fishing.) Time slots in which the boating party spent ½ hour or more time fishing. Does not include the time the fishermen spent not fishing (such as running time).

Question 9: Average Number of Lines in the Water for the Total Boat Party

This does not refer to individuals, but the boating party as a whole. How many lines are over the edge of the boat on average?

Question 10: Fishing Method

DR - Downrigger TR - Troller MO - Mooching (Bait only) CA - Casting PL - Planer JI - Jigging (Lure only) OTHER - refers to methods such as spearfishing or gathering shellfish.

More than one fishing method may be employed.

Question 11: Terminal Tackle

Bait Lure Other

Terminal tackle is what is at the end of the line. More than one terminal tackle type can be employed.

Question 12: Catch Summary

Total Creel for Trip: What they have in their possession.

Total Fishing Time: Total hours lines were in the water to the closest half hour.

U____: The number of marked (adipose clipped) chinook and coho, as well as the number not marked. e.g., M <u>1</u> CH, <u>2</u> CO U <u>4</u> CH, <u>5</u> CO

If one did not actually inspect the creel (e.g., fish filletted) question is left blank.

On Back of Every Form

M

Marked on the map are distinct and separate locations fished during the last fishing trip. With each distinct location, are marked the time fished to the closest ½ hour in decimal points. With each location, the species caught and species released are recorded (e.g., 2 CO kept, 2 CO released).

Species UF and SF are specified, e.g., 7 UF = greycod 6 SF = prawns.

The information is then transferred from the map to the front of the form. The information is grouped by Statistical Area (all locations in one statistical area on the map are reported together on the front).

1st Stat Area: Statistical Area fished.

Kept: All species caught and kept from one statistical area into this block.

Released: All species caught and released from one statistical area into this block. Codes from back of form. No need to specify on front of form UF and SF just number of UF (e.g., 7 UF) and the occurrence of SF (e.g., SF).

Time: Number of hours to the closest half hour spent fishing in that statistical area.

2nd or 3rd Stat Area: Repeat the above for each separate statistical area fished.

Species Codes: CO - Coho

CH - Chinook

SM - Other Salmonid or Unknown Salmonid

RF - Rockfish

LC - Ling Cod

DF - Dogfish

US - Unidentified/Other Fish

SF - Shellfish

Coding example: Fishing for 3 hours, caught 3 chinook and 1 long cod, released 4 dogfish:

3 HRS 3CH, 1LC Rel. 4DF

Question 13: Cor ID Salmon: (Did Fishermen Properly Identify Salmon Species?)

Filled in by interviewer rather than asked of fisherman.

Yes No N/A

Surveyor uses his/her own discretion on this question. If people are unsure of what they caught -- answer No. N/A is nonapplicable, i.e., if angler did not have any salmon in the creel or the creel was not inspected.

Question 14: Cor ID Salmon: (Did Fishermen Properly Identify Non-Salmon Species?)

Filled in by interviewer also.

Yes No N/A

Same procedure for this question as for #13, except refers to non-salmon species.

Question 15: Expected Number of Fishing Boat Trips for This Vessel Today (Including One Just Completed)

This is the total number of times the boat is expected to go fishing today.

Question 16: Have You Been Interviewed Previously Today?

Yes No

SPORT FISHING CREEL SURVEY SURVEYORS' MANUAL

1980/81 GEORGIA STRAIT

APPENDIX в

1980 GEORGIA STRAIT SPORT FISHING CREEL SURVEY SURVEYORS' MANUAL

INTRODUCTION

The Georgia Strait Creel Survey is being conducted from June 15, 1980 through June 30, 1981 in 11 Administrative Areas covering 10 Statistical Areas. Each surveyor will be working within an Administrative Area under the direction of a Project Leader. This Project Leader in turn reports to DPA Consulting Limited in Vancouver (Suite 130, 601 West Cordova, Vancouver, BC V6B 1G1, 681-7577). To administer the questionnaire and collect data on a consistent basis, a standardized format has been established in the form of this Surveyors' Manual.

The Surveyors' Manual covers the general procedure of sampling in areas of Georgia Strait. Topics which are area-specific will be covered by individual Project Leaders.

SAMPLING PROCEDURE

Sampling of every boat in the Strait of Georgia is not possible because of the magnitude of the sport fishery. A statistically based system of sampling of landing sites has been established to eliminate potential bias that could be introduced from judgemental sampling. For a given landing site and time period selected, one should attempt to interview <u>all</u> boats landing. When not all boat landing can be interviewed (i.e., at busy periods), it is important to select boats for interview on a random basis so that the information collected will be representative of all boats landing in that time period. That is, <u>do not</u> select one boat over another because you think it has fish aboard.

Boat Counts and Weather Conditions

Each interviewer will be responsible for tallying the total number of boats landing at the landing location by time block. Except for peak periods in which all boats landing may not be interviewed, the tally should coincide with the number of interviews attempted. The <u>actual</u> arrival and departure times of the surveyor at the landing site should be noted. Weather and environmental conditions -- tide, sun, rain, wind, and fog -- should be summarized for each 4-hour time block on the tally sheet.

Definition of a Boat Trip

.

A boat trip is the basic interviewing unit. It represents a completed trip, i.e., the boat has reached its final landing point. That is, refueling and going right out again is not a complete boat trip. It is important that the counts of boats landing coincides with the number of boats that potentially had a chance to be interviewed. For this reason do not interview boats not counted in the boat tally and do not count boats that are just refueling.

In addition, a boat trip refers to the present day portion of the trip. For overnight trips, the catch and fishing time occurring since midnight only should be counted.

Conducting the Survey

In approaching a boater, mention that you are conducting a sport fishing survey for DPA Consulting. You may also mention that the intent of the survey is to provide an accurate count of the number of sport fishing boats and of the sport fishing catch. Ask the boater if he/she would answer a few questions. If at this time, or any subsequent time during the interview, objection to the survey arises, you should withdraw from the interview and go on to the next boat. The incomplete interview will be noted in the appropriate column on the daily tally sheet. If the boat was not out fishing (i.e., answer NO to question 6), terminate the interview.

When you get to the catch summary, ask the person for the <u>total</u> catch of the boat party and the total time fishing. Then you can ask if the interviewee would mind if you inspect the creel. Thereafter, or perhaps at the same time, you can indicate on the map where the party was fishing and what they caught. Explicitly ask if they released any fish.

At the end of the interview, thank the respondent.

THE SURVEY FORM

The survey form includes a space for identifying information and a list of questions on the front (identical for all Administrative Areas). On the back of the form is one of four maps (illustrating different fishing regions of Georgia Strait). You should ensure that you are using the correct form for your particular area.

Administrative Information

Landing Site: The name of the landing site from which the interview is conducted plus its respective ID number (see Appendix for codes).

Statistical Area: The statistical area in which the landing site is located.

Interviewer: Full name plus respective ID number (see Appendix for codes).

Date: Year, month, day in numbers (include zeros), e.g., June 8, 1980 should be coded as 80/06/08. Time: The time of Interview. Enter hours and minutes. Remember to circle AM or PM.

NOON IS 12:00 AM.

NOON 13 12:00 AM.

B-4

Question #1 - Vessel Characteristics

Length -

- Circle the appropriate information. If the answer is not visually evident, ask the operator the length of the boat.
- Propulsion This question refers to the main mode of transport, e.g, a sailboat with an outboard auxillary is still a sailboat.

If unsure how to distinguish an inboard from an outboard and in/outboard, consult your project leader.

- Ownership Rented or charter refers to a paying trip. Private - can refer to a loaned or borrowed boat as well, as long as it's not a paying trip.
- Guided A simple yes or no answer, but a question that must be asked as it is not always evident.

Question #2 --- Time of Landing

exact time of landing, not the time of the questionnaire. Use hours and minutes and remember to circle the AM or PM.

Time Block - refer to blocks listed in question #8. of Landing

Question #3 - Number of Individuals in Party

1-15 yrs - ask if not evident
16 yrs + - ask if not evident
total - the sum of the above

Question #4 - Residences of Party

BC - ask Rest of Canada - ask Other - ask

The total should equal the total in Question #3.

Question #5 - Length of Boat Trip

to the closest half hour, i.e., four hours 40 minutes should be marked down as 4.5 hours and four hours 50 minutes should be 5.0 hours.

Ouestion #6 - Did Your Party Fish in the Georgia Strait on This Trip

> any time spent fishing for any type of fish, including shellfish, in the Georgia Strait (and including the portion of Juan de Fuca Strait in Area 20) should answer yes.

Question #7 - What was the Main Species at Which Fishing Effort was Directed?

> Circle only one. If they were fishing for anything or many species, mark non-specific (5).

Question #8 - Times Lines were in the Water (exclude time not fishing) Circle each time slot in which the fishermen spent 1/2 hour or more time fishing. Do not include time the fishermen spent not fishing (such as running time or boating time).

Question #9 - Average Number of Lines in the Water for the Total Boat Party

> This does not refer to individuals, but the boat as a whole. How many lines are over the edge of the boat on average?

Question #10 - Fishing Method

DR - Downrigger TR - Trolling MO - Mooching (Bait only) CA - Casting PL - Planer JI - Jigging (Lure only) OTHER - refers to methods such as spearfishing or gathering shellfish.

Circle one or more.

Question #11 - Terminal Tackle

Bait Lure Other

Terminal tackle is what is at the end of the line. Circle one or more.

Question #12 - Catch Summary

Total Creel \smile What they have in their possession. for Trip Use codes as printed on back of survey form.

Total Time Fishing -

(total time lines were in the water) To the closest half hour (i.e., 3.5 hours).

M U -The number of marked (adipose clipped) chinook and coho, as well as the number not marked.

> e.g., M 1 CH, 2 CO U 4 CH, 5 CO

Go to Map -Mark on the map distinct and separate locations fished during the last fishing trip. With each distinct location, mark the time fished to the closest 1/2 hour in decimal points. With each location, mark down the species caught and species released, i.e., 2 CO kept, 2 Co released. Specify what UF and SF are: 7 UF = greycod

6 SF = prawns

After you have marked the fishing locations, catch and time information on the map go on to questions 13 to 16 so the interview can be completed as quickly as possible.

Later, when you have time, transfer the information from the map to the front of the form, grouping the information by Stat area (all locations in one stat area on the map are to be reported together on the front).

1st Stat Area -Mark down what stat area fished.

Kept -Group all species released from one stat area into this block.

Released -

Group all species released from one stat area into this block.

Use codes from back of form. No need to specify on front of form UF and SF just no. of UF (i.e., 7 UF) and the occurrence of SF (i.e., SF).

Number of hours to the closest half hour in Time decimal points, spent in that stat area.

2nd or 3rd Repeat the above for separate statistical areas. Stat Area -

B-7

Question #12 - continued

Species Codes

CO - Coho CH - Chinook SM - Other Salmonid RF - Rockfish LC - Ling Cod DF - Dogfish US - Unidentified/Other Fish SF - Shellfish

Coding example:

Fishing for 3 hours, caught 3 Chinook and 1 Ling Cod, released 4 Dogfish.

3 HRS 3CH, 1LC Rel. 4DF

Question #13 - Cor ID Salmon: (Did Fishermen Properly Identify Salmon Species?)

(To be filled in N/A Yes NO by interviewer rather than asked Surveyor uses his/her own discretion on of fisherman.) this question. If people are unsure of what they caught --answer no. N/A - is nonapplicable, i.e., if they did not have any salmon in the creel. Question #14 - Cor ID non-Salmon: (Did Fishermen Properly Identify Non-Salmon Species?) (To be filled in Yes No N/A by interviewer also.) Same procedure for this question as for #13, except refers to non-salmon species. Question #15 - Expected Number of Fishing Boat Trips for This Vessel Today (Including One Just Completed) This is the total number of times the boat is expected to go fishing today. Question #16 - Have You Been Interviewed Previously Today? No Yes

SOME SPECIAL PROBLEMS TO KEEP IN MIND

 Write clearly -- Use pen or pencil, as you wish, but please do not use red.

Some numbers and letters look alike so be especially careful of the following:

| 1 | could | be | 7 | so | write | it | 1 |
|---|-------|----|---|----|-------|----|----|
| 3 | could | be | 5 | so | write | it | .3 |
| 5 | could | be | 6 | so | write | it | 5 |
| 4 | could | be | 9 | so | write | it | 4 |
| 8 | could | be | 9 | so | write | it | 8 |
| | | | | | | | |

| A | could | be | H | so | write | it | A |
|---|-------|----|---|----|-------|----|---------------|
| D | could | be | 0 | so | write | it | \mathcal{D} |
| 1 | could | be | 1 | so | write | it | L |
| 0 | could | be | 0 | SO | write | it | U |

2. Write the species codes: Number code, species code, such as 1CO, 4CH, 3LC

3. Circle multiple choice answers clearly. Always circle.

4. Look at the problem form on the following page.

- (a) Note that the interview time is exactly the time of landing. Try to distinguish these so that we can see from the tally sheet what group of vessels this one belongs to. This is particularly important when a vessel lands just before the hour and is interviewed in the next hour.
- (b) Questions 3 and 4 relate to each other: the total number of people in the party should equal all the residences. Please use numbers in both questions, even though the information is obvious, our keypunchers are trying to enter a large volume of information and don't have time to check this.

B-9

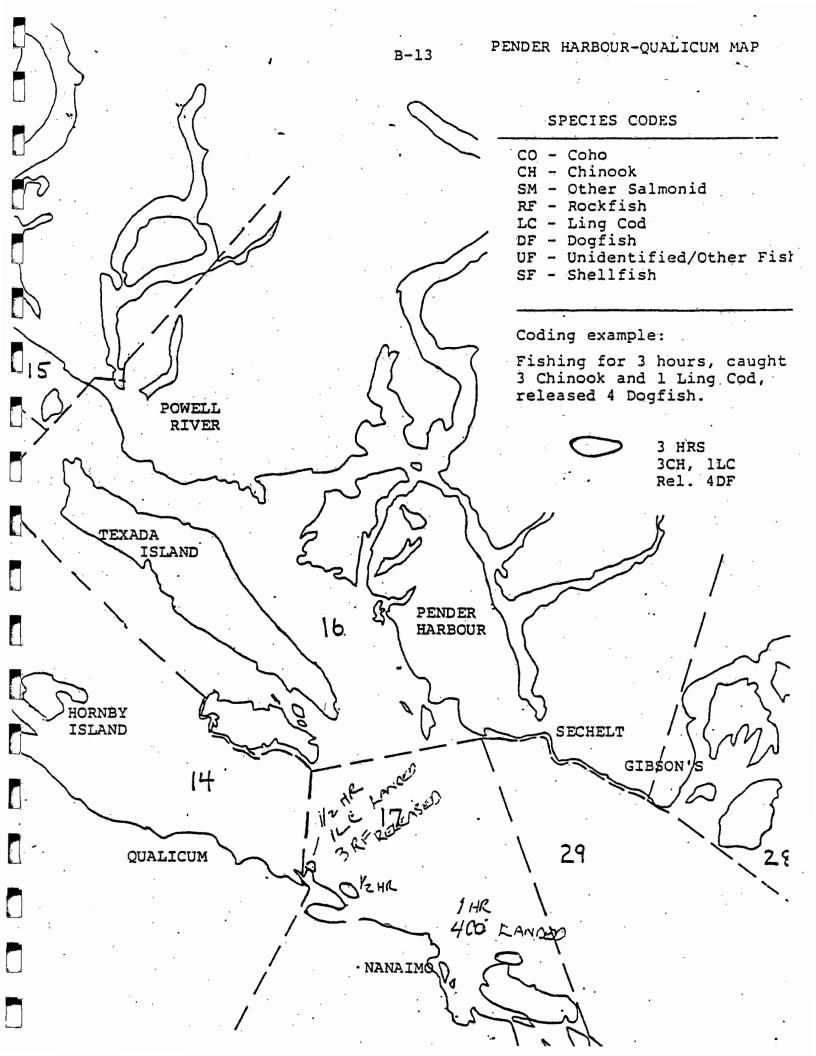
- (c) The biggest problem with length of trip and fishing times is that there is a tendency to enter the minutes or quarter hours. The information should be entered to the nearest half hour -- as a decimal (i.e., 2.5 hours for 2½ hours).
- (d) Fishing time blocks are to be circled when the fisherman has been fishing for one half an hour or more in a block.
- (e) A stat area should appear on the front in only one box; combined information for fishing locations is necessary for checking, for scheduling overflights, and to the biologists who will use this form for location information.
- (f) Please use the species codes at all times on the front of the form.
- (g) Be especially consistent with the creel. If there were coho and/or chinook, check for marked fish and record both the marked and unmarked for both species.
- (h) In Questions 13 and 14, the code N/A means "not applicable." The question is not applicable if these species were not caught.

In general, consider that you are collecting and transmitting information in a precise shorthand. People at this end need to understand exactly what you saw. The shorthand was set up to make the information collection process quick and uniform. It also speeds up our data entry.

Now look at the correct form to see how the problem form should have been entered.

B-11 1980 GEORGIA STRAIT SPORT FISHING CREEL SURVEY PROBLEM Landing Site Statistical Area 0 12 Time 4 : 20 80 Interviewer year/month/day PRESENT, BOAT TRIP COMPLETED Time of Vessel Characteristics: Landing She Guided: Length: Propulsion: Ownership: be before (0) Yes (0) rented or (S) Less than 16' (1) inboard (4) sail m 16'-30'11" (5) TOW (outboard chartered D No interview (3) in/outback (6) other (L) 31' and up (D private MISSING ME Time Block 9:20 Time of Landing Breakdow PM 16+ yrs Number of Individuals in Party: 1-15 yrs Total Rest of Canada Other Residences of Party: BC use numbers Length of Boat Trip hrs this becomes 3HRS in Both Bixes ever teclosest VEHr) Did your party fish in the Georgia Strait on this trip? (es No though it is obvious. What was the main species at which fishing effort was directed? (1))salmon (2) groundfish (3) shellfish (4) Other (5) non-specific Times Lines were IN the water (EXCLUDE time not fishing) PM AM (10) 3:00-3:59 (14) 7:00-7:59 (1) before 7:00 (4) 9:00-9:59 (7) 12:00-12:59 (5) 10:00-10:59 (11) 4:00-4:59 (15) 8:00-8:59 (8) 1:00-1:59 7:00-7:59 (9) 2:00-2:59 (12) 5:00-5:59 (16) 9:00 plus (6) 11:00-11:59 (3))8:00-8:59 (13) 6:00-6:59 write clearly could NOT have fished 1/2 Hr or mak in this Block Landing at 9:20 Am - this could be a 30r 5 3 Average number of lines in water for TOTAL boat party Fishing method: DR (TR) (MQ) CA PL Other 11. Terminal tackle: (Bait Other Lurg Buth Area 17 Locations Should be combined ! 1st Stat Area 2nd Stat Area 3rd Stat Area Catch Summary Total Creel for Trip GO 10 CO 4C.0 Kept . TO MAP Released 3 rock fish Total Time Fishing Z hrs $\frac{12}{hrs}$ Time hrs hrs مح م please! М code for USE the species codes. Cohe + Chinock MISSING 5/6 ∞ o even though obvious Cor , ID Salmon: NO N/A 14. Cor ID Non-Salmon: Yes No N/A Expected number of fishing boat trips for this vessel today (INCLUDING THE ONE JUST COMPLETED) ITRAD. A Line Carl un

1980 GEORGIA STRAIT SPORT FISHING CREEL SUFVEY B-12 G00 D FORM Landing Site Statistical Area 12 Time 9 : 20 🖤 061 ·80 Interviewer Date year/month/day PRESENT BOAT TRIP COMPLETED Vessel Characteristics: Length: Propulsion: Guided: Ownership: (S) Less than 16' (1) inboard (4) sail (0) rented or (O) Yes (M) 16'-30'11" (2)) outboard (L) NO (5) row chartered (L) 31' and up (3) in/outboard (6) other (1) private 15 AV Time Block 4 Time of Landing γ : 2. -PM ГВ. 2 3 Number of Individuals in Party: 1-15 yrs 16+ yrs Total O. Ċ Residences of Party: BC Rest of Canada Other Length of Boat Trip hrs б٠. Did your party fish in the Georgia Strait on this trip? (Yes) No 7. What was the main species at which fishing effort was directed? ((1) salmon (2) groundfish (3) shellfish (4) Other (5) non-specific 8 Times Lines were IN the water (EXCLUDE time not fishing) AM PM (1) before 7:00 (4) 9:00-9:59 (7) 12:00-12:59 (10) 3:00-3:59 (14) 7:00-7:59 (15) 8:00-8:59 (2) 7:00-7:59 (5) 10:00-10:59 (8) 1:00-1:59 (11) 4:00-4:59 (12) 5:00-5:59 (9) 2:00-2:59 (16) 9:00 plus ((3)) 8:00-8:59 (6) 11:00-11:59 (13) 6:00-6:59 3 Average number of lines in water for TOTAL boat party Fishing method: DR (R) (MO) CA PL Other 11. Terminal tackle: fait (Lurg Other ' Catch Summary lst Stat Area 2nd Stat Area 3rd Stat Area Total Creel for Trip GO 460,120 400,120 Kept TO MAP 3RF. Released Total Time Fishing ' - O . O hrs Time hrs hrs hrs CCU Ū. 4(0 Cor ID Salmon: (Yes) No N/A 14. Cor ID Non-Salmon: (NO) Yes N/A Expected number of fishing boat trips for this vessel today (INCLUDING THE ONE JUST COMPLETED)



Terminology

Slang

Blueback Silver Shaker Grilse* Blackmouth King Tyee Jack** Spring Rockcod Red snapper Dog Humpy Red salmon

Species

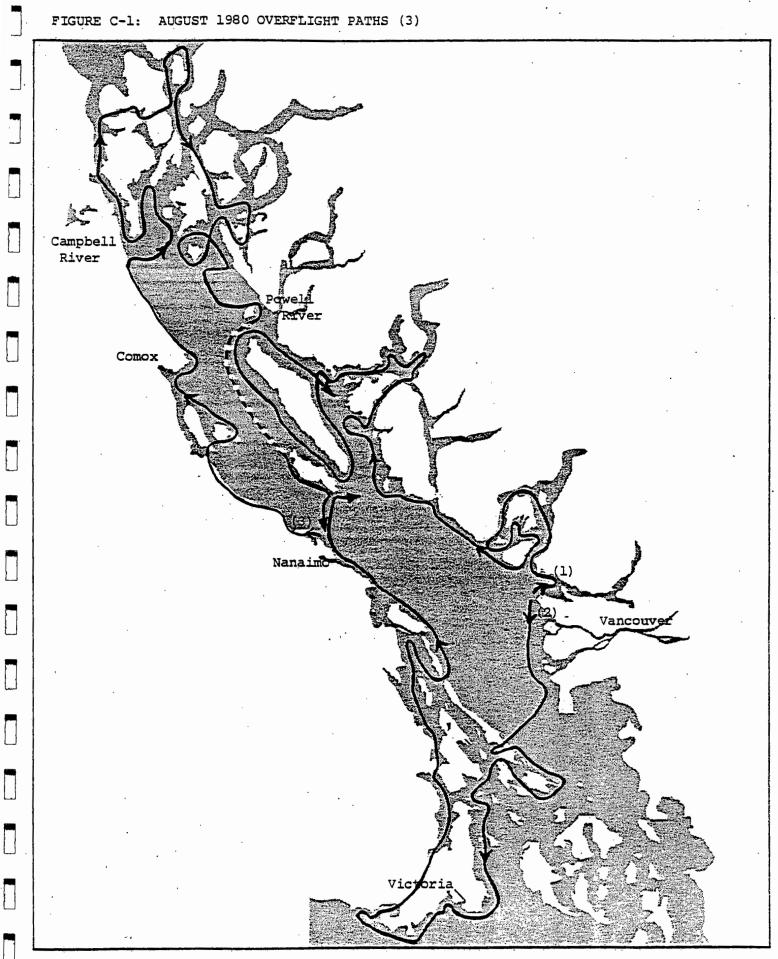
coho coho or chinook coho or chinook chinook chinook chinook coho or chinook chinook rockfish rockfish chum pink sockeye

*a small salmon of any species

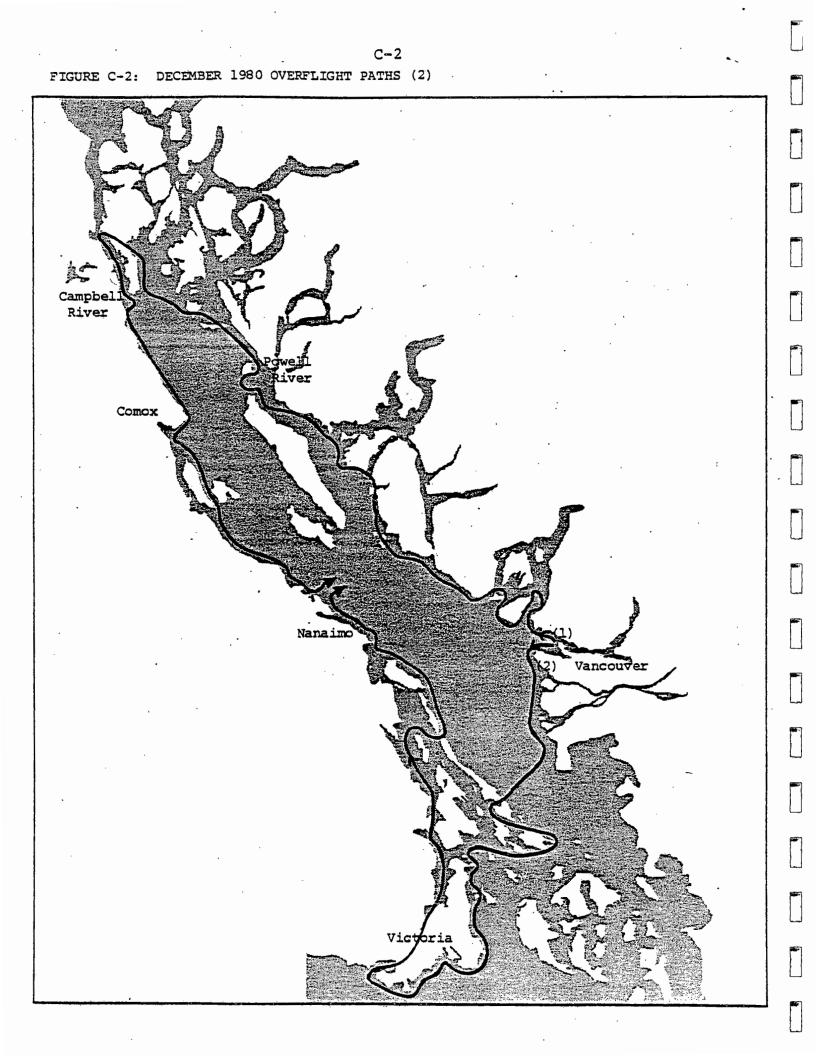
** a precocious (early maturing) male of any salmon species.

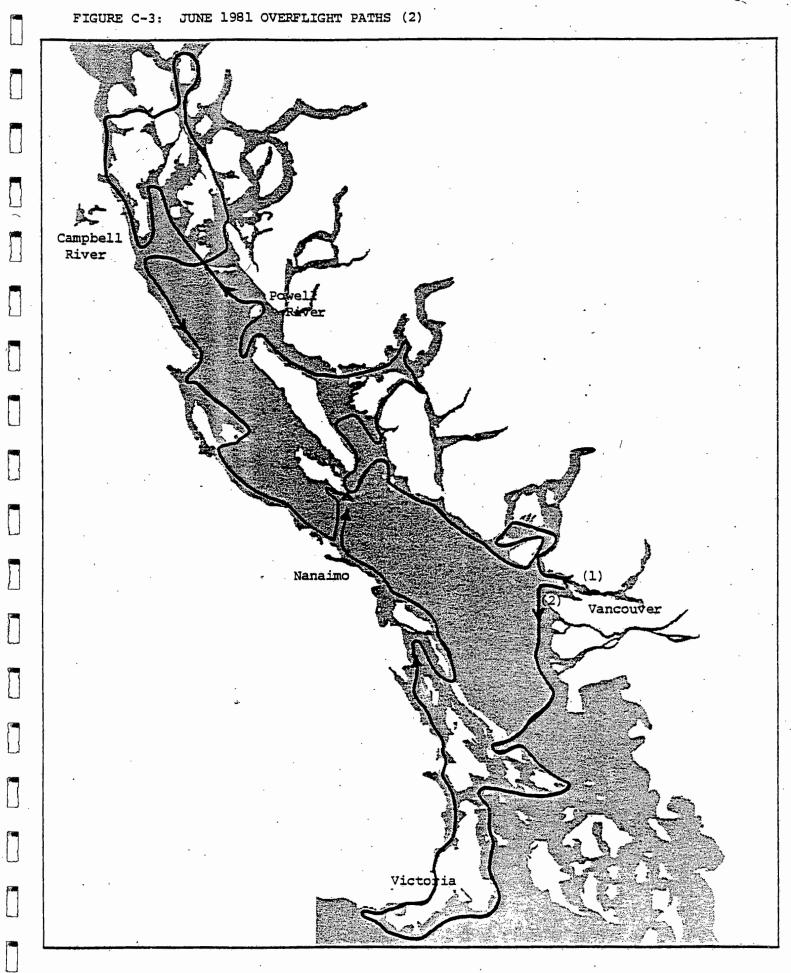
APPENDIX C

OVERFLIGHT PATHS



- - indicates that counting of sport boats did not occur



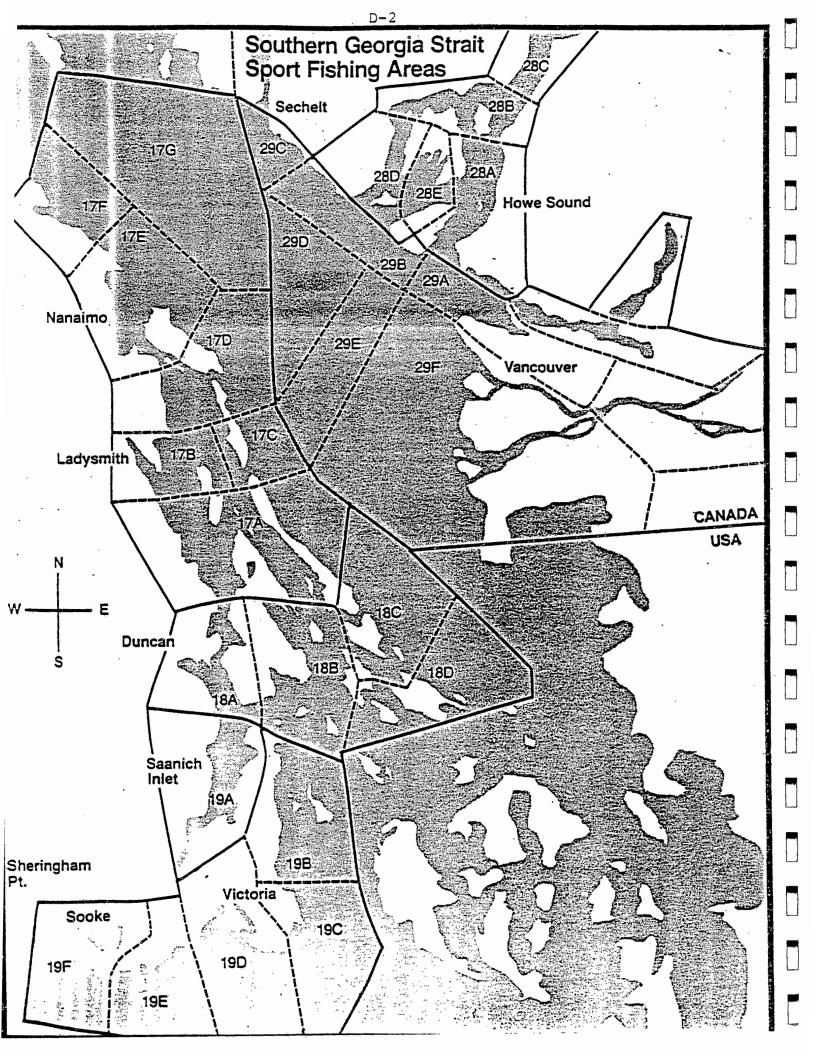


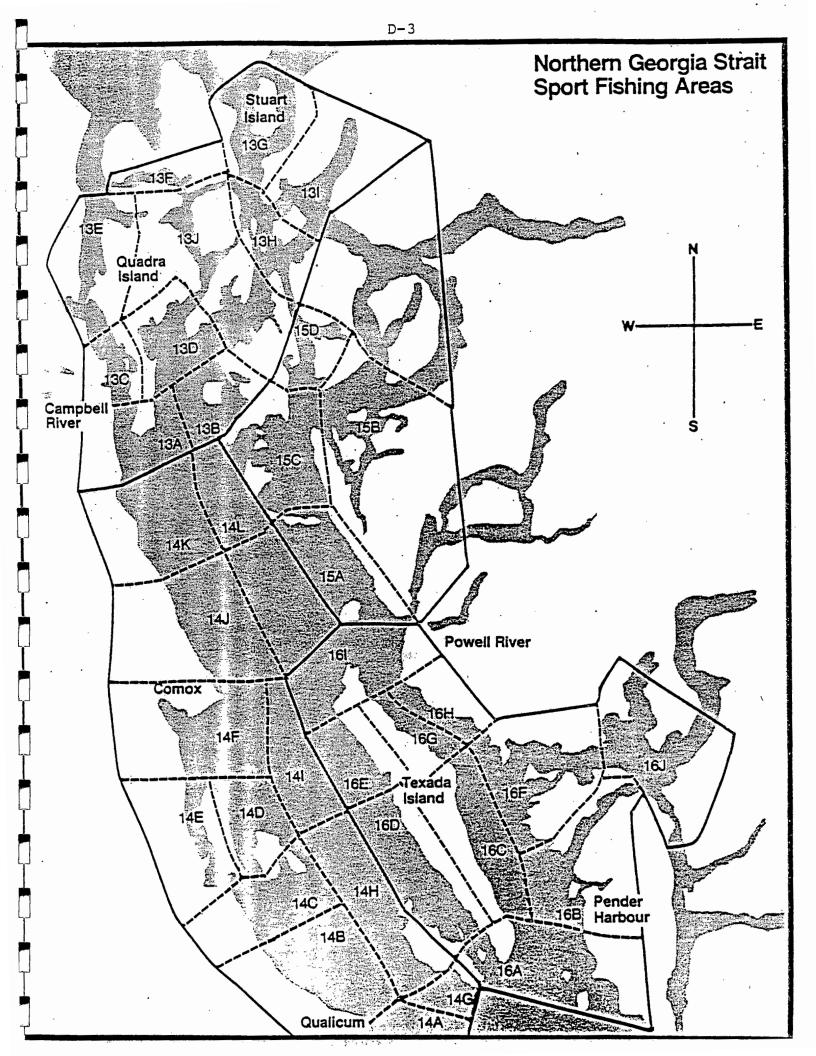
APPENDIX D

OVERFLIGHT SPORT FISHING BOAT COUNTS

· · · · ·

Monthly tallys of individual sub-areas are presented and totalled for each Statistical Area. The weather reports from specific weather stations are included for each flight-day. A description of the codes used in the weather reports is included at the back of this appendix.





| SPORT BOAT | TS WEEKDAIS | | | | | | | | WEEK | ENDS | | | |
|---|---|--|--|---|--|---|---|---|---|--|--|---|--|
| | Jul.7 Mon. | Jul.23 Wed. | Jul.31 Thurs. | Mean | Time PDT | Jul.5 Sat. | Jul.12 Sat. | Jul.13 Sun. | Jul.19 Sat. | <u>Jul.27</u> Sun. | Aug.2 Sat. | Mean | Time PDT |
| Area 13 | | | | | | | | | | | | | |
| A B C D E F G H I | 179 6 19 0 11 1 12 12 | 218 3 149 3 20 0 20 3 | 265 NA 100 NA NA NA NA | 222 5 89 2 15 1 16 2 | 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 | 154 9 28 24 4 0 47 2 - | 239 19 30 18 2 0 52 0 | 204 10 50 38 7 3 43 7 | 74 NA 10 NA 1 NA NA NA | 225 4 56 21 25 0 44 3 | 299 5 46 19 14 1 42 0 | 199 10 37 24 9 1 45 2 | 0803-0900 0800-0900 0800-0900 0800-0900 0800-0900 0900-1000 0900-1000 0900-1000 |
| J | <u> </u> | 0_ | NA | 0 | 1800-1900 | _0 | 0 | 0 | <u>HA</u> | 0 | 4 | 1 | 0900-1000 |
| Total | 229 | 416 | 412 | <u>352</u> | | 268 | <u>360</u> | 362 | <u>169</u> | 378 | <u>430</u> | 328 | |
| Area 14 | | | | | | | | | | | | | |
| A B C D A F G H I | 21 18 44 19 0 13 12 16 | 16 29 52 11 -0 13 23 16 | 12ª 63a 9a 26ª NA NA | 16 37 52 13 17 17 | 1700-1800 1700-1800 1700-1800 1700-1800 1700-1800 1800-1900 1800-1900 1800-1900 | 50 20 78 6 0 4 26 25 | 51 23 70 49 0 30 62 31 | 46 42 126 2 0 29 42 23 | 0 9 18 3 0 1 NA NA | 40 35 89 13 0 7 25 5 | 34 15 79 7 2 2 20 3 | 37 24 77 13 0 12 35 17 | 0800-0900 0800-0900 0800-0900 0800-0900 0800-0900 0800-0900 0800-1000 |
| J K L, | 10 45 <u>8</u> | 50 20 14 | 124 ^a 54 ^a <u>NA</u> | 61 40 11 | 1800-1900 1800-1900 1800-1900 | 3 0 <u>24</u> | 10 15 7 | 16 18 13 | 0 7 0 | 2 10 9 | 22 0 0 | 9 8 9 | 0800-0900 0800-0900 0800-0900 |
| Total | 206 | 244 | 394 | 231 | | 236 | 348 | 357 | 81 | 235 | <u>182</u> - | 241 | |
| WEATHER | | | | | | | | | | | | | |
| Cape Mudge | | <u>`</u> | | | | | | | | | | | |
| Sky Visibility Precipitati Wind Sea | PT CLDY 15+ on - SE8 RPLD | PT CLDY 15+ NW4 RPLD | PT CLDX 15+ SE4 RPLD | | 1600 1600 1600 1600 1600 | NW6 RPLD | CLDY 12 NW4 RPLD | OVC 15+ N6 RPLD | OVC 8 RAIN SE2 RPLD | PT CLDY 15+ NW6 RPLD | · OVC 15 LT DRIZ NW4 RPLD | | 1000 1000 1000 1000 1000 |
| Cape Lazo | | | | | | | | | | | | | |
| Sky Visibility Frecipitati Wind Sea | PT CLDY 20 on - NES SMTH | PT CLDY 20 NS LT CHP | ZDY 20 NS SMTH | | 1600 1600 1600 1600 1600 | CLDY 8 RN SH NWS RPLD | PT CLDY 15 - N10 RPLD | ovc 25 - NW8 RPLD | OVC 10 RAIN SE15 CHPY | CLR 20 NW10 CHPY | OVC 15 CLM SMTH | | 1000 1000 1000 1000 1000 |

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, JULY 1980 TABLE D-1

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver ^aOverflight occurred one hour later than time indicated.

^eIstimate

MA - Sub-area not covered due to poor visibility (smoke, fog, etc.)

| SPORT BOAT | · · · | · • • • • | EKDA | YS | | _ | | | WEEN | ENDS | S | | |
|---|--|--|--|--|---|---|--|--|---|---|---|--|--|
| COUNTS | Jul.7 Mon. | Jul.23 Wed. | Jul.31 Thurs. | Mean | Time PDT ^a | Jul.5 Sat. | Jul.12 Sat. | Jul.13 Sat. | Jul.19 Sat. | <u>Jul.27</u> Sun. | Aug.2 Sat. | Mean | Time P |
| Area 15 | | | | | 1 | | | | | | | | |
| A B C D | 23 0 10 0 | 22 0 11 0 | NA NA NA NA | 22 0 11 0 | 1900-2000 1900-2000 1900-2000 1900-2000 | 9 3 ^e 19 0 | 37 3 17 1 | 34 0 4 1 | NA NA NA | 11 6 2 5 | 20 4 17 0 | 22 3 12 2 | 0900-10 0900-10 0900-10 0900-10 |
| Total | 33 | 33 | <u>NA</u> | 33 | | 33 | 58 | <u> 39</u> | NA | 24 | <u>41</u> | <u> 39</u> | |
| Area 16 | | | | | | | | | | | | | |
| A B C D E T C H I J | 34 27 3 9 14 12 0 38 8 11 | 49 62 9 1 7 12 0 0 12 9 | 71 52 15 11 13 16 4 0 21 13 | 51 47 9 5 10 14 5 0 24 11 | 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 | 5 22 1 1 2 3 0 <u>6</u> 27 ^e | 00000000000000000000000000000000000000 | 118 75 12 5 4 97 3 0 19 27 ^e | 35 40 2 13 5 2 2 27 ^e | 100 108 9 3 0 28 1 3 24 35 | 80 59 1 16 4 0 5 <u>18</u> | 68 61 2 4 29 3 1 11 27 | 0800-09 0800-09 0800-09 0900-10 0900-10 0800-09 0900-10 0900-10 0900-10 0900-10 |
| Total | <u>151</u> | <u>161</u> | 216 | <u>176</u> | | 68 | NC | 360 | <u>131</u> | <u>311</u> | 189 | 212 | |
| WEATHER | | | 1 | • | | | | | • | | | | |
| <u>Grief Point</u> Sky Visibility Precipitation Wind Sea | CLR 15 NW8 RPLD | CLR 15 NW7 RPLD | PT CLDY 15 - NW6 RPLD | | 1645 1645 1645 1645 1645 | ovc 4 RN SH N4 SMTH | CLDY 15 ES RPLD | SW4 | OVC 12 VL RAIN SE15 LT CHP | CLR 15 NW10 RPLD | OVC 12 NW7 RPLD | · | 10 10 10 10 |
| Visibility Precipitation Wind | 15+ | PT CLOY 15+ SE5 RPLD | CLDY 15+ SE7 RPLD | | 1600 1600 1600 1600 1600 | OVC 8 LIT RAIN E9 LIT CHP | CLDY 12 | OVC 15 - SW4 RPLD | 10 LT RAIN SE26 | PT CLDY 15+ - W6 T CHP I | OVC 15 NIO | | 10 10 10 10 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver ^aTime of weather report is 0845 for Grief Point on July 12. ^eEstimate

NA - Sub-area not covered due to fog in Campbell River area.

NC - Sub-area not covered due to termination of wheeled aircraft flight in Howe Sound.

ī

| SPORT BO | RT . | 1 1 - | EERDA | Ÿ | - | | | | WEEX | ENDS | | | |
|-----------------------|----------------------|--------------|----------------|------------|-----------|-------------|------------|------------|----------------|----------------|------------------|--------|-----------|
| COUNTS | Jul.7 | Jul.23 | Jul.31 | Mean | Time PDT | Jul.5 | Jul.12 | Jul.13 | Jul.19 Sat. | Jul.27 Sun. | Aug. | 2 Mean | Time PD7 |
| Area 17 | Mon. | Wed. | Thurs. | | • | Sat. | Sat. | sun. | Sat. | Sun. | Sat. | • | |
| A | 1. | 7 | 3 | 4 | 1800-1900 | 2 | , 11 | 13 | 2 | 8 | 8 | 7 | 0800-0900 |
| B C D E F | 5 | 9 | 17 | 10 | 1800-1900 | 1 | `7 | 13 | 4 | 21 | 3 | 8 | 0800-0903 |
| ç | 23 | 18 | 29 | 24 | 1800-1900 | 27 | 59 | > 94 | 43 | 51 | 45 | 53 | 0800-0900 |
| D | 8 | 15 | 16 65 95 | 13 | 1800-1900 | 7 | 24 | 32 | 8 | 25 | 30 | . 21 | 0900-1000 |
| Ξ | 33 31 | 61 | 65 | 53 | 1800-1900 | 115 | 81 | 104 | 8 | 1 | 24 | 56 | 0900-1000 |
| | 31 | 57 | . 95 | 61 | 1800-1900 | 63 | 91 | 89 | 4 | 25 | 18 | 49 | 0900-1000 |
| G | 12 | 16 | 2.7 | 18 | 1800-1900 | 46.0 | 72 | 94 | 0 | 47 | 17 | 46 | 0900-1000 |
| Total | 113 | 183 | 252 | 133 | | 261 | 345 | 439 | 69 | 178 | <u>17</u> 145 | 240 | |
| Area 18 | | | | | | | | • | | | | | |
| λ | • 16 | 34 . | 32 | 27 | 1800-1900 | -25 | 26 | 33 | 27 | 36 | 37 | 30 | 0800-090 |
| | 16 32 22 28 | 2 | | 16 | 1700-1800 | 8 | ~ 0 | 15 | - <u>i</u> | 18 | 12 | - j | 0700-080 |
| B C | 22 | 35 | 38 | 32 | 1700-1800 | 16 | 49 | 53 | 24 | 72 | 35 | 42 | 0700-080 |
| ã | 284 | 28 | 28 | 28 | 1700-1800 | <u>39</u> e | 45 | 61 | 35 | 26 | 26 | 39 | 0700-080 |
| - | | | | | | | | | | | | | |
| Total | 98 | 106 | 106 | <u>103</u> | | 88 | 120 | <u>162</u> | 87 | 152 | 110 | 120 | |
| WEATHER | | | | | | | | . • | | | | | |
| Entrance | | | | | | | | | | • | | | |
| Sky | PT CLDY | PT CLDY | PT CLDY | | 1600 | OVC | PT CLOY | OVC | ovc | CLR | OVC | | 1000 |
| Visibilit | y 15 | 15 | 10 | | 1600 | 6-8 | 6-8 | 10 | 3 | 15 | 15 | | 100 |
| Precipita | | - | .= | | 1600 | - | - | - | LT RAIN | - | - | | 100 |
| Wind | NNW10 | SE6 | _E10 | | 1600 | SE4 | NW6 | NNE6 | ESE16 | NW22 | NW10 | | 100 |
| Sea | CHPY | RPLD | CEPY | | 1600 | RPLD | RPLD | RPLD | HOD | MOD | CHPY | | 100 |
| East Poin | t | | | | | | | | | | | | |
| | | | | | | | | | | | 7.4 | | |
| | TCLDY | PT CLDY | PT CLDY | | 1600 | CLDY | CLDY | CT DY | ove | PT CLDY | OVC | | 100 |
| Visibilit | | 15 | 15 | | 1600 | 15 | 10 | 15 | 3-5 | 15 | 15 | | 100 |
| Precipita | | - | - | | 1600 | - | - | - | LT RAIN | - | - | | 100 |
| Wind | NW4 | SE8 | S10 | | 1600 | 54 | SW2 | SW9 | 516 | NS | 59 | | 100 |
| Sea | RPLD | RPLD | RPLD | | 1600 | RPLD | RPLD | LT CHP | CHPY | RPLD | RPLD | | 100 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vandouver.

^eEstimate.

TABLE

D-3

D-6

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, JULY 1980

| TABLE | D-4 | | SPORT BOA | T COUNTS | AND | WEATHER DURI | NG OVERF | LIGHTS, | STATIST | ICAL AREAS | 19A AN | TD 19B+, | JULY | 1980 |
|--|-----------|---------------------------------|--------------------------------|-------------------------------|-------------------------|---|--|-----------------------------------|------------------------------------|-----------------------------------|------------------------------|--------------------------|------------------------------------|---|
| SPORT COUNTS | | Jul.7 Mon. | W E Jul.23 Wed. | E K D A Y Jul.31 Thurs. | Mean | Time PDT | Jul.5 Sat. | <u>Jul.12</u> Sat. | W Jul.13 Sun. | EEKEN Jul.19 Sat. | Jul.27 Sun. | Aug.2 Sat. | Mean | Time PDT |
| <u>Area 19</u> | <u>9A</u> | 27 | . 44 | 45 | · 39 | 1800-1900 | 100 | 113 | 191 | 118 | 127 | 85 | 122 | 0800-0900 |
| Area 19 | B+ | | | • | | | | | | | | | | |
| B C D E F | | 12 5 4 23 <u>27</u> | 13 1 3 11 <u>1</u> | 6 1 6 10 0 | 11 2 4 15 9 | 1700-1800 1700-1800 1700-1800 1700-1800 1700-1800 | 13 17 9 <u>49</u> <u>190</u> | 25 23 30 NA <u>NA</u> | 33 26 25 84 <u>116</u> | 10 7 NA <u>NA</u> | 18 12 30 101 NA | 5 9 98 77 | 17 16 18 85 <u>128</u> | 0800-0900 0800-0900 0800-0900 0800-0900 0800-0900 |
| Total | | <u>71</u> | 29 | 23 | 41 | | 286 | 291 | 284 | 237 | 289 | 198 | 264 | |
| WEATHER Race Ro | - | | • | | | | | | | | | | | |
| Sky Visibil Precipi Wind Sea | itation | 10 | PT CLDY 10 W25 MOD | PT CLDY 8 W35 MOD | • | 1600 1600 1600 1600 | CLDY 15 W8 RPLD | OBSC 0.5/FOG W12 CHPY | CLDY 10 SW12 CHPY | OBSC .25/POG SW12 LT CHP | CLR 6 - W12 CHPY | OVC 10 W16 CHPY | | 1003 1000 1000 1000 |
| | | | | | | | | | | | | | | . , |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

WA- Sub-area not covered due to fog.

| PORT BOAT | | WEI | EKDAY | s | | • | | v | EEX | ENDS | | | • |
|---------------------------------|---------------------------------|---------------------------------|------------------------------|---------------|--------------------------------------|-----------------------------|--------------------------|-----------------------------|-------------------------------------|-------------------------------|-------------------------|----------------|-------------------------------|
| CUNTS | Jul.7 Mon. | Jul.23 Wed. | | Mean | Time PDT | Jul.5 Sat. | <u>Jul.12</u> Sat. | <u>Jul.13</u> Sun. | Jul.19 Sat. | Jul.27 Sun. | Aug.2 Sat. | Mean | Time PD1 |
| ea 28 | - | | | | | | | | 5 | | | | • |
| A . B | 9 2 | 28 1 | 39 4 | 25 2 | 1700-1800 1700-1800 | 12 5 | NC NC | 32 2 | 51 0 | DERBY | 67 8 | 41 | 0700-08 0700-08 |
| C D E | 11 11 | 18 | 6 | 12 | 1700-1800 1700-1800 | 21 20 | NC NC | 30 [.] | 28 | DERBY | 6 10 | 21 11 | 0800-09 0800-09 |
| tal | 33 | 48 | 55 | <u>45</u> | | 58 | NC | <u>70</u> | 88 | DERBY | <u>91</u> | <u>77</u> | |
| ea 29 | | | | | | | | | | | | | |
| A B C | 0 29 6 | 6 59 35 | 6 79 16 | 4 56 19 | 1700-1800 1700-1800 1700-1800 | 0 114 0 | NC NC NC | 2 203 22 | 5 74 13 | DERBY DERBY DERBY | 17 78 4 | 6 117 10 | 0700-08 0800-09 0800-09 |
| D E F | _2 ^{e'} | _2 ^e | _2 ^e | _2° | 1700-1800 | ² , ^e | NC | 2 ^e | _2 ^e | DERBY | _2° | 2 ^e | 0700-08 |
| tal | <u>37</u> . | 102 | <u>103</u> | <u>81</u> | | <u>116</u> | NC | 229 | <u>94</u> | DERBY | <u>101</u> | <u>135</u> | |
| ATHER | | - | | | | | | | | | | | |
| . Atkinson | <u>í</u> | | | | | | | | | | | | |
| sibility recipitation | CLDY 15 m - W9 CHPY | PT CLDY 15 SW3 RPLD | PT CLDY 15 NW3 RPLD | | 1600 1600 1600 1600 1600 | ELL LT CHP | GVC 8 W5 RPLD | CLDY 15 E18 LT CHP | OVC 10 VL RAIN E19 CHPY | PT CLDY 10 E3 RPLD | OVC 15 W7 RPLD | | 10 10 10 10 |
| undheads | | | | | | | | | | . ' | | | |
| sibility ecipitatic nd NF | CLDY 15 m - V12 IPY | PT CLDY 15 SE10 LT CHP | PT CLDY 15 SE6 RPLD | | 1600 1600 1600 1600 1600 | OVC 15 SE12 CHPY | OVC 12 CLM SMTE | OVC 15 SE12 LT CHP | OVC 6 LT RAIN SE22 CHPY | PT CLDY 12 NW12 CEPY | OVC 15 E4 RPLD | | |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver

^eEstimate.

NC - Sub-area not covered due to use of wheeled aircraft on overcast day.

| PORT BOAT | | | EKDAY | | | | | WE | EKEND | s | | |
|---------------|----------------|-----------------|----------------|---------|------------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|
| IOUNTS | Aug. 8 Fri. | Aug. 20 Wed. | Aug.25 Mon. | Mean | Time_PDT | Aug. 3 Sun. | Auc.10 Sun. | Aug.17 Sun. | Auc.23 Sat. | Aug. 24 Sun. | Mean | Time PD1 |
| ITEA 13 | | | | | | • | | | | | | |
| λ . | 311 | 235 | 256 | 267 | 1800-1900 | 312 | 272 | 237 | 209 | 113 | 228 | 0800-0900 |
| з. С | 0 55 | 2 | 2 | 1 86 | 1800-1900 1800-1900 | 0 97 | 8 | 0 | 5 | 0 | | 0800-0900 |
| 5. | 8 | 101 19 | 101 32 | 20 | 1800-1900 | 42 | 45 40 | 90 8 | 188 38 | 141 19 | 112 29 | 0800-0900 |
| Σ | 64 | 20 | 20 | 35 | 1800-1900 | 10 | 45 | 13 . | 59 | 46 | 35 | 0800-0900 |
| F . | 0 | 0 | 0 | 0 | 1800-1900 | 1 | Ö | 0 | ٥ | 0 | 0 | 0900-1000 |
| G g | 18 | 2 <u>1</u> 1 | . 11 | 17 | 1800-1900 | 49 | 62 | 43 | 57 | 6.4 | 55 | 0900-1000 |
| I | 5 | - | 1 | 2 | 1800-1900 | 4 | 9 | 1 | 2 | . 7 | 5 | 0900-1000 |
| 3 | <u> </u> | 1 | 0 | | 1800-1900 | | | 0 | | 0 | 0 | 0900-1000 |
| otal | 461 | 400 | 423 | 428 | | 515 | 481 | 392 | 558 | 390 | 467 | |
| rea 14 | | • • | _ | | | | _ | | | | — | |
| x | 3 | . 7 | 16 | 9 | 1700-1800 | 18 | 10 | 13 | 30 | 1 | 14 | 0800-0900 |
| в | 53 | 34 | 36 | 41 | 1700-1800 | 52 | 58 | 20 | 69 | 19 | 44 | 0800-0900 |
| C | 62 | 85 19 | 4 | 50 | 1700-1800 | 108 | 99 | 10 | 70 | 27 | 63 | 0800-0900 |
| E | 18 | 13 | 4 | 14 | 1700-1800 1700-1800 | 18 | 30 | 0 | 5 | 1 | 1 <u>1</u> 2 | 0800-0900 |
| F | 36 | 18 | 55 | 36 | 1700-1800 | - | 23 | ŏ | 26 | 13 | 13 | 0800-0900 |
| G | 5 | 7, | . 2 | 5 | 1900-2000 | 61 | 67 | ĩ | · 53 | 15 | 39 | 0900-1000 |
| E. I. | 20 | 3 | 13 | . 12 | 1900-2000 | 6 | 10 | 2 | 17 | 0 | 7 | 0900-1000 |
| 3 | 30 | 53 | 81 | 54 | 1300-1900 | 3 | 14 | 13 | 39 | 0 | 14 | 0800-0900 |
| R | 5 | 18 | 18 | 14 | 1800-1900 | 65 | 5 | 0 | 12 | 1 | 17 | 0800-0900 |
| - | _11 | _1 | <u>_</u> | 4 | 1800-1900 | 5 | 1 | | | 0 | _1 | 0800-0900 |
| tal | 243 | 245 | 233 | 240 | | 344 | 317 | 59 | 322 | 84 | 225 | |
| ATHER | | | | | | | | | | | | |
| ipe Mudge | | | | | | | | | | | | |
| | | | · | | | | | | | | | |
| y sibility | PT CLDY 15+ | PT CLDY | CLDY 15 | | 1600 1600 | PT CLDY | PT CLDY | ove | CLDY | CLR | | 1000 |
| ecipitation | 13- | · 13 | - | | 1600 | 20 | 15+ | 12 | 10 | 15 | | 1000 |
| nd | NW6 | NW10 | SE12 | | 1600 | NW15 | NW4 | SE2 | NW4 | NW14 | | 1000 |
| 28 | RPLD | RPLD | RPLD | | 1600 | CHPY | RPLD | RPLD | RPLD | CHPY | | 1000 |
| ape Lazo | | | | | | | | | | | | |
| | PT CLDY | PT CLDY | CLDY | | | | | | | | | |
| y Sibility | 20 | 20 | 15+ | | 1600 1600 | PT CLDY 20 | CL.DY 20 | CLDY | CLDY | <u> </u> | | 1000 |
| ecipitation | - | • | ~ | | 1600 | - | - | 20 | 15 | 20 | | 1000 - 1000 |
| Ind | NW8 | NW10 | SEE12 | | 1600 | NW15 | NW10 | SE15 | NW10 | W20 | | 1000 |
| a. | RPLD | RPLD | RPLD | | 1600 | CHPY | CHPY | HVY CHP | RPLD | HVY CHP | | 1000 |

.

ABLE D-6 : SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14. AUGUST 1980

TABLE D-7 : SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 15 AND 16, AUGUST 1980

| | SPORT BOAT | | WE | EKDAY | S | | | | WE | EKEND | S | | |
|---|-----------------------------|-------------------------|----------------|-------------------------|-------------------------------|-------------------------------------|----------------|-----------------|-----------------|---------------|----------------|----------------|----------------------------------|
| | COUNTS | Aug. 8 Fri | Aug.20 Wed | Aug. 25 Mon | Mean | Time PDT | Aug. 3 Sun | Aug.10 Sun | Aug.17 Sun | Aug.23 Sat | Aug.24 Sun | Mean | Time PD |
| | Area 15 | ~ | • | | • | | | | | •• | | | 0900-100 |
| | А В С | 60 3 38 | 20 6 9 | 30 1 12 | 36 3 20 · | 1900-2000 1900-2000 1900-2000 | 8 2 11 | 25 2 35 | 1 0. 0 | 34 3 11 | - 7 7 | 14 3 13 | 0900-100 |
| | D | 2 | 0 | | 1 | 1900-2000 | <u>1</u> | <u><u> </u></u> | | | 0 | 1 | 0900-100 |
| | Total Area 16 | <u>103</u> | 35 | 43 | 60 | | | | <u> </u> | _50 | 16 | | |
| | λ | 120 | 93 | 69 | 94 | 1700-1800 | 130 | 135 | 15 | . 48 | 45 | 74 | 0800-090 |
| | B C | 28 | 31 | 51 | 36 3 | 1700-1800 1800-1900 | 119 21 | 117 21 | 41 | 40 . B | . 51 | 74 10 | 0800-090 0800-090 |
| | D F F | 0 | 11 | 3 13 · 26 | · 6 | 1800-1900 1800-1900 | 4 1 36 | 8 2 44 | 1 8 | 8 | 4 1 16 | 5 3 24 · | 0900-100 0900-100 0800-090 |
| | G H | 19 2 0 | 24 1 0 | с 26 С О | 23 1 0 | 1700-1800 1800-1900 1800-1900 | 4 | 0 | • 0 | 21 1 0 | - 0 | 1 | 0900-100 |
| | Ī | 30 | 10 | 13 | 18 <u>12</u> <u>198</u> | 1800-1900 1700-1800 | 8 <u>33</u> | 25 15 367 | 5 4 . | 8 | 3 | 10 13 | 0900-100 0800-090 |
| | Total | <u>14</u> <u>221</u> | 182 | <u>14</u> <u>190</u> | 198 | | 356 | 367 | 78 | 138 | 129 | 214 | |
| | WEATHER | | - | | | | | | | | | | |
| | Grief Point | | | | | | | | | | | | * |
| ٦ | Sky Visibility | CLR 15 | PT CLDY 12 | CLDY 15 | | 1645 1645 | CLDY 15 | CL.R 15 | ove 11 | CLDY 15 | CLR 15 | · · | 1045 1045 1045 |
| | Precipitatio Wind Sea | n – NW6 SMTH | NW5 RPLD | S10 LT CHP | | 1645 1645 1645 | NW9 RPLD | NW3 SMTH | NE25 CHPY | NW3 SMTE | NW5-10 RPLD | | 1.045 |
| | 365 | SALA | | ina will? | • | 1045 | | 3410 | Cari | SALA | | | 1045 |
| | Merry Island | | | | | 1 | | | | | | | |
| | Sky Visibility | PT CLDY 15+ | PT CLDY 15+ | CLDY 15 | | 1600 1600 | CLDY . 15+ | PT CLDY 15 | OVC 15+ | 0VC 12 | PT CLDY 15 | | 1000 |
| 2 | Precipitatio Wind | NW7 - | NW7 | SE9 | | 1600 1600 | NW7 | - W3 | VL RAIN SE22 | NW2 | NW1 6 | | 1000 1000 |
| | 5 ea | LT CHP | RPLD | LT CHP | | 1600 | LT CHP | RPLD | CHPY | RPLD | CHPY | | 1000 |

TABLE D-8: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, AUGUST 1980

| SPORT BOAT | | WE | EKDAY | 5 | | | | | EKEND | | | |
|---|---|---|--|---|---|--|--|---|---|------------------------------------|---|--|
| Area 17 | Aug. 8 Fri | Aug. 20 Wed | Aug.25 Mon | Mean | Time PDT | Aug. 3 Sun | Aug. 10 Sun | <u>Aug.17</u> Sun | Auc.23 Sat | Aug. 24 Sun | Mean | Time PD |
| A B C D F F G C Total Area 18 | 9 16 18 24 21 39 <u>10</u> 137 | 9 26 39 34 33 10 177 | 1 3 14 17 92 69 <u>2</u> <u>198</u> | 6 15 20 27 49 47 7 171 | 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 | 14 28 29 27 26 44 <u>6</u> <u>174</u> | 23 32 75 48 66 87 19 <u>350</u> | 5 2 43 10 22 51 0 <u>133</u> | 5 24 54 27 73 45 29 | 1 6 11 2 5 16 45 | 10 18 41 25 38 46 14 192 | 0800-090 0800-090 0800-100 0900-100 0900-100 0900-100 |
| D D D D Total <u>TEATHER</u> <u>INTERANCE</u> | 25 13 34 <u>41</u> <u>113</u> | 21 28 46 <u>26</u> <u>121</u> | 42 14 22 25 123 | 29 18 41 <u>31</u> 119 | 1800-1900 1700-1800 1700-1800 1700-1800 | 42 25 47 <u>40</u> <u>154</u> | 52 13 67 <u>60</u> 192 | 73 15 36 23 147 | 45 3 70 <u>56</u> <u>174</u> | 69 12 46 10 137 | 56 14 53 <u>38</u> 161 | 0800-0901 0800-090(0700-080(0700-080(|
| Sky /isibility /recipitition /ind Jea | PT CLDY 15 NW20 MOD | PT CLDY 15 NW16 MOD | CLDY 10 SE14 CHPY | | 1600 1600 1600 1600 | CLDY 15 NW20 MOD | PT CLDY 12 NM8 RPLD | OVC 10 SE12 CHPY | OVC 10 NW10 CHPY | PT CLDY 15 NW32 ROUCH | | 1000 1000 1000 1000 |
| Sky /isibility Precipitation Vind Sea | PT CLDY 15 NW12 CHPY | PT CLUY 15 NW6 CHPY | PT CLDY 15 - S3 RPLD | | 1600 1600 1600 1600 1600 | PT CLDY 15 SW4 RPLD | די כובסי 12 אאיז גדובס | OVC 12 RAIN S16 CHPY | OVC 12 SW10 LT CHP | PT CLDY 15 NW12 CHPY | | 1000 1000 1000 1000 |

OURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver,

}_

Ţ

Į

TABLE D-9 : SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 198+, AUGUST 1980

| SPORT BOAT | | WE | EKDAY | S | | | | W E | EKEND | s | | |
|---|------------------------------|-----------------------------|------------------------------|------------------------|--|---------------------------------|--------------------------|-------------------------------------|---------------------------------|------------------------------|----------------------|--|
| <u>COUNTS</u> | Aug. 8 Fri | Aug. 20 Wed | Aug. 25 Mon | Mean | Time PDT | Aug. 3 Sun | Aug.10 Sun | Aug.17 Sun | Aug.23 Sat | Aug. 24 Sun | Mean | Time PI |
| Area 19A Area 19B+ | 47 | 94 | 65 | 69 | 1800-1900 | 120 | 184 | 155 | 174 | 256 | 178 | 0800-090 |
| В С 2 П Т Т | 6 15 2 18 | 11 7 2 17 | 4 2 0 | 7 8 1 12 | 1700-1800 1700-1800 1700-1800 1700-1800 | 17 25 31 - 165 | 3 39 39 92 | 3 12 9 94 | 18 23 23 66 | 1 0 18 122 | 8 20 24 108 | 0800-090 0800-090 0800-090 0800-090 |
| Total | 18 22 63 | <u>19</u> <u>56</u> | -1 | <u>14</u> <u>42</u> | 1700-1800 | <u>119</u> <u>357</u> | <u>128</u> <u>301</u> | <u>29</u> <u>147</u> | 125 255 | <u>NA</u> 241 | <u>100</u> 260 | 0800-090 |
| MEATHER Race Rocks | | | | | | | | | • | | | |
| Sky Visibility Precipitacion Wind Sea | PT CLDY 15 W18 CHPY | PT CLDY 8 W15 CHPY | OBSC O/TOG W20 CHPY | · | 1600 1600 1600 1600 1600 | PT CLDY 10 SW10 LT CHP | CLR 10 CLM RPLD | OVC 8 LT RN SH SW6 RPLD | OBSC 4/FOG SW10 LT CHP | OBSC O/FOG H12 CHPY | | 1000 1000 1000 1000 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver. NA - Sub area not covered due to fog.

TABLE D-10: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, AUGUST 1980

| _ | SPORT BOAT | | | EKDAY | | | | | | EKEND | | | |
|--------|-------------------|----------------|----------------|------------------|------|--------------|----------------|-------------------|----------------|----------------|----------------|----------|--------------|
| | COUNTS | Aug. 8 Fri | Aug.20 Wed | Aug.25 | Mean | Time PDT | Aug. 3 Sun | Aug. 10 Sun | Aug. 17 Sun | Aug. 23 Sat | Auc. 24 Sun | Mean | Time PDT |
| | | | | | | , | 544 | 50. | 50. | 541 | Jun | | |
| | Area 28 | | | | | | | | | | • | | |
| - | Α. | 45 ' | . 53 | 79 | 59 | 1700-1800 | 149 | $217^{a}_{a}_{4}$ | 120 | 292 | 182 | 192 | 0700-0800 |
| Γ | BC | 4 | 2 | -4 | 3 | 1700-1800 | 1 | | 0 | 1 | 5 | 2 | 0700-0800 |
| L | D | 13 | 6 | 11 | 10 | 1700-1800 | 21 | 61_{7a}^{a} | 35 | 35 | - 38 | 38 | 0700-0800 |
| | E | 3 | 3 | <u>13</u> 107 | 7 | 1700-1800 | 11 | | 15 | 1 | 8 | <u>و</u> | 0700-0800 |
| | Total | 65 | 64 | 107 | _79 | | 182 | 289 | 170 | 329 | 233 | 241 | |
| | Area 29 | | | | | | | | | | | | |
| . 🗀 | À | .5 | 4 | 5 | 5 | 1700-1800 | 11 | 65ª 172ª | . 12 | 35 | 32 | 31 | 0700-0800 |
| | в | 20 13 | 32 | 71 | 41 | 1700-1800 | 154 | 1724 | 65 | 156 | 93 | 128 | 0730-0800 |
| | C D | 13. | 34 | 23 | 23 | 1700-1800 | 20 | 45 | 13 | 20 | 8 | 21 | 0800-0900 |
| | E | ~ e | | | | | .e | ~e | | - | • | • | |
| | - | 8 ^e | 11 | 5 | 8 | 1700-1800 | 2 ^e | <u></u> e | <u>1</u> 91 | 5 | <u></u> | 2 | 0700-0800 |
| | Total | 46 | 81 | 104 | 77 . | | 187 | 284 | _91 | 216 | 133 | 182 | |
| | WEATHER | | | | | | | | | | | | |
| | Pt. Atkinson | | | | | | | | | | | | |
| | | | | | | 1.600 | | | | | | | |
| _ | Sky Visibility | PT CLDY 15 | PT CLDY 15 | CLDY 15 | | 1600 1600 | OVC 15 | PT CLDY 12 | OVC 5 | CLDY 12 | CLDY 15 | | 1000 |
| | Precipitation | - ' | - | - | | 1600 | - | - | RAIN | - | - | | 1000 |
| \Box | Wind Sea | W4 PRLD | SW7 LT CHP | W3 RPLD | | 1600 1600 | E5 RPLD | NW7 RPLD | E16 CHPY | SW10 LT CHP | W5 LT CHP | · . | 1000 1000 |
| | | | | | | | | | | | , | | |
| - | Sandheads | | | | | | | | | | | | |
| | | PT CLDY | - | ÷ | | 1.600 | | | | | | | |
| · | Sky Visibility | 20 | PT CLDY 15 | CLDY 15 | | 1600 1600 | CLDY 15 | PT CLDY 12 | 0VC 12 | CLDY 15 | CLDY 15 | | 1000 1000 |
| | Precipitation | - | - | - | | 1600 | - | - | - | - | - · | | 1000 |
| | Wind Sea | NW12 LT CHP | NW10 LT CHP | SELO LT CHP | , | 1600 1600 | NW14 MOD | W2 RPLD | SE32 MOD | SE10 RPLD | NW20 MOD | | 1000 1000 |
| | | | | | | | | | | | | | |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

a Overflight occurred one hour later than time indicated.

e Estimate.

WEEKENDS Sep.14 Sep.21 Sun Sun KDA Sep.25 Thu SPORT BOAT ₩E E Y S Time PDT COUNTS Mean Time PDT Mean Sep. Mon Sep.17 Wed Sep. 6 Sat Sep.13 Sat 8 Area 13 1700-1800 1700-1800 1700-1800 1700-1800 1700-1800 72 0900-1000 0900-1000 A B C 199 145 139 45 112 117 235 127 Ō 0 2 1 1 1 67 1 1 62 15 29 131 0900-1000 0900-1000 112 26 73 161 226 64 11 5e 2e 0^e D 11 15 15 31 7 3 14 5 11 0 10 0 0 e 18 0900-1000 12 23 E F 8 0 37 ī Ō 1700-1800 0 Ō 0 0 0900-1000 G 1700-1800 1700-1800 36 35 1 4 14 50 44 ō 0900-1000 H I 1 0 1 ٥ 1 oe 0 0900-1000 Ĵ 0 0 0 1700-1800 0 0 1 322 345 190 <u>196</u> 325 Total 209 24.8 340 426 Area 14 1600-1700 1700-1800 1700-1800 1700-1800 1700-1800 21 41 87 14 38 77 20 44 22 13 31 14 41 0800-0900 11 31 11 14 9 ABCDEF 22 71 0 2 42 66 0800-0900 69 1 1 0800-0900 74 69 114 69 20 3 9 0 10 1 33 10 ō 0800-0900 2 12 7 2 64 ē зõ 1700-1800 1800-1900 7 24 13 14 0800-0900 16 2 2 2 112 12 G 1 5 41 1 3 6 10 1000-1100 1800-1900 н IJ 26 2e 2 73 9 3 34 3 2 22 4 1 44 1700-1800 1700-1800 1700-1800 27 7 60 0800-0900 0 0 7 0800-0900 K L l 0^e 5 2 1 1 0 0800-0900 330 170 179 226 109 141 222 176 Total 232 WEATHER . Cape Mudge Sky CLR PT CLDY CLDY 15+ 1600 ovc CLR 15 CLDY 15+ PT CLDY 1000 Visibility 15+ 1600 1600 10 15+ 1000 LT RAIN Precipitation • • --. Wind SE6 **S**6 SE6 1600 SE26 NW10 NW4 CLM 1000 Sea RPLD RPLD RPLD 1600 CHPY LT CHP RPLD LT RPLD 1.000 Cape Lazo PT CLDY 15 Sky CLR CLDY ovc 1600 ovc PT CLDY CLDY 1,000 Visibility 20 20 20 1600 1600 20 20 1000 8 Precipitation ---LT RAIN SE15 --1000 -Wind NW10 SE5 NE 5 1600 NW15 NW15 N5 1000 Sea 1600 MOD LT CHP RPLD RPLD CHPY CHPY RPLD 1000

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

e Estimate.

TABLE D-11:

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, SEPTEMBER 1980

| TABLE D-12: | SPORT BOA | T COUNTS A | ND WEATHER | DURING | OVERFLIGHTS, | STATISTIC | AL AREAS 1 | 5 AND 16, | SEPTEMBER 1 | 980 | |
|---|---|--|---|--|---|--|--|--|--|--|---|
| SPORT BOAT COUNTS | Sep. 8 Mon. | W E Sep.17 Wed | EKDAY Sep.25 Thu | S <u>Mean</u> | Time PDT | Sep. 6 Sat | Sep.13 Sat | WEE Sep.14 Sun | KENDS Sep.21 Sun | Mean | Time PDT |
| A B C D Total | 47 4 6 1 58 | 24 0 3 0 27 | 8e 0e 0e 9 | 26 1 3 1 31 | 7 1800-1900 1800-1900 1800-1900 1800-1900 | 3 2 2 10 | 17 0 3 <u>0</u> 20 | 17 1 0 <u>0</u> 18 | 24 0 ^e 4 <u>3</u> <u>31</u> | 15 1 3 1 20 | 0900-1000 0900-1000 0900-1000 0900-1000 |
| Area 16 A B C D E F G H J J Total | 19 51 0 13 6 26 6 0 20 <u>6</u> 147 | 25 12 0 5 1 6 0 24 2 78 | 19 33 0 4 6 8 e 3 e 9 3 85 | 21 32 0 7 5 11 5 0 18 <u>4</u> 103 | 1700-1800 1700-1800 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 | 7 27 0 1 0 3 0 38 | 34 38 6 5 7 26 0 1 1 11 1 129 | 43 37 1 3 0 14 0 2 10 <u>3</u> 113 | 45 46 0 10 7 e 1 ^e 8 <u>1</u> <u>118</u> | 32 37 2 5 2 12 0 1 8 1 100 | 0800-0900 0800-0900 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 |
| WEATHER Grief Point Sky Visibility Precipitation Wind Sea | PT CLDY 15 - NW6 RPLD | PT CLDY 15 - NW5 RPLD | CLDY 15 | • * | 1645 1645 1645 1645 1645 | OVC 6/FOG VL RAIN SE20-25 CHPY | PT CLDY 12 NW8 LT CHP | PT CLDY 12 NW7 LT CHP | PT CLDY 12 - NW5 RPLD | • | 1045 1045 1045 1045 1045 |
| Merry Island Sky Visibility Precipitation Wind Sea | CLDY 12 - NW8 LT CHP | CLDY 6/FOG SE9 LT CHP | CLDY 15 - NW7 LT CHP | | 1600 1600 1600 1600 1600 | OVC 12 SE26 MOD | CLDY 15+ NW8 LT CHP | PT CLDY 15+ N7 LT CHP | CLDY 15 NW10 LT CHP | | 1000 1000 1000 1000 1000 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

Estimate.

| SPORT BOAT | | | EKDAY | | | | | | KENDS | | |
|---|--|-----------------------------------|---|------------------------------------|---|---|---|---|--|---|---|
| COUNTS | Sep. 8 Mon | Sep.17 Wed | Sep.25 Thu | Mean | Time PDT | Sep. 6 Sat | Sep.13 Sat | Sep.14 Sun | Sep.21 Sun | Mean | Time PDT |
| Area 17 | | | | | | | | | | | |
| لم B C D E F G Total | 9 0 18 4 23 12 3 69 | 0 2 5 6 23 5 41 | 3 0 3 57 19 <u>2</u> 87 | 4 6 4 29 18 3 66 | 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 1800-1900 | 1 0 12 0 11 1 7 32 | 18 11 2 8 0 1 <u>11</u> 51 | 16 5 29 2 6 12 12 82 | 28 3 21 15 71 34 <u>4</u> 176 | 16 5 16 22 12 <u>8</u> 85 | 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 |
| Area 18 | | | | | | | | | | | |
| λ B C D Total | 23 0 <u>1</u> - <u>27</u> | 22 0 2 7 31 | 17 8 10 1 36 | 21 2 5 31 | 1800-1900 1700-1800 1700-1800 1700-1800 | 20 0 25 15 60 | 34 12 40 <u>18</u> 104 | 36 27 20 25 108 | 52 21 14 <u>35</u> <u>122</u> | 36 15 25 23 99 | 0900-1000 0800-0900 0800-0900 0800-0900 |
| WEATHER | | | | | • | | | | | | |
| Entrance Sky Visibility Precipitation Wind Sea | CLDY 12 NW14 CHPY | OBSC 1-3/FOG SE8 CHPY | CLDY 10 NW14 CHPY | | 1600 1600 1600 1600 1600 | CLDY 10 SE26 MOD | PT CLDY 12 NW26 MOD | CLDY 15 - NW24 MOD | CLDY 15 NW12 CHPY | | 1000 1000 1000 1000 |
| East Point Sky Visibility Precipitation Wind Sea | CLDY 15 NW4 CHPY | OVC 8 - SW8 LT CHP | CLDY 15 - NW10G CHPY | | 1600 1600 1600 1600 1600 | OVC 8 - SW9 LT CHP | PT CLDY 15 - NW13 MOD | PT CLDY 15 - NW10+ CHPY | OVC 15 - SW7 RPLD | | 1000 1000 1000 1000 1000 |

TABLE D-13: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, SEPTEMBER 1980

SOURCE: Overflight records and Marine Weather Report, Atmospheric Environment Service, Pacific Regional Office, Vancouver

TABLE D-14: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 198+, SEPTEMBER 1980

| | SPORT BOAT | | WE | EKDAY | S | | | | | KENDS | | |
|---|-----------------------------------|---------------|---------------|----------------------|---------------|-------------------------------------|----------------|-------------------|--------------------------|-------------------|-------------------------|-------------------------------------|
| , | COUNTS | Sep. 8 Mon | Sep.17 Wed | Sep.25 Thu | Mean | Time PDT | Sep. 6 Sat | Sep.13 Sat | Sep.14 Sun | Sep.21 Sun | Mean | Time PDT |
| | Area 19A | 79 | 13. | 66 | 53 | 1800-1900 | 143' | 186 | 200 | 201 | 183 | 0900-1000 |
| | Area 19B+ | | | | | | | | | | | |
| | B C D | 3 6 .10 | 1 5 3 | - 11 8 10 | 5 6 8 | 1700-1800 1700-1800 1700-1800 | na Na Na | 12 22 83 | 9 33 54 | 13 39 30 | 11 31 56 | 0800-0900 0800-0900 0800-0900 |
| | F Total | 38 7 64 | 10 7 26 | 37 <u>5</u> 71 | 28 7 54 | 1700-1800 1700-1800 | NA NA NA | 101 | 202 <u>106</u> 404 | 200 118 400 | 168 <u>89</u> 355 | 0800-0900 0800-0900 |
| _ | WEATHER | | | | | | | | | | | |
| | Race Rocks | | | | | | | | | | | |
| | Sky Visibility Precipitatio | PT CLDY | CLDY 10 | CLDY 10 | | 1600 1600 1600 | OVC 1/FOG | PT CLDY 6 - | CLR 15 | CLDY 10 | • | 1000 1000 1000 |
| | Wind Sea | S10 CHPY | NE5 RPLD | SE10 CHPY | | 1600 1600 | NE10 LT CHP | W10 LT CHP | W10 RPLD | W14 CHPY | <i></i> | 1000 1000 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

NA - Sub areas not covered due to fog.

| SPORT BOAT | | WE | EKDAY | S | | · | | | KENDS | | ····· |
|-----------------------------|-----------------------|-----------------------|-----------------------|----------------|------------------------|------------------------|---------------|------------------|-------------------------|------------------|------------------------|
| COUNTS | Sep. 8 Mon | Sep.17 Wed | Sep.25 Thu | Mean | Time PDT | Sep. 6 Sat | Sep.13 Sat | Sep.14 Sun | Sep.21 Sun | Mean | Time PDT |
| Area 28 | | | | | | | | | | | L |
| | 82 | 65 | 44 0 ^e | 64 | 1600-1700 | 85 | 175 | 241 | 106 0 ^e | 152 | 0800-0900 |
| E C. | 0 | 0 | 0 | 0 | 1600-1700 | . 1 | 1 | 0 | 06 | 0 | 0800-0900 |
| Ľ, | 10 | 16 | 8 2 | 11 | 1700-1800 1700-1800 | 37 | 46 | 53 | 35 | 43 | 0800-0900 |
| Total | 0 2 | <u>1</u> <u>82</u> | <u>2</u> <u>54</u> | 76 | | 124 | 222 | 298 | 148 | 198 | • |
| Arez 29 | | | | ••• | | | | | | | Ţ |
| | - | _ | | | | | | | | | <u>د</u> |
| ኦ ይ ር | , 11 | 5 | 15 10 | 9 8 | 1600-1700 1700-1800 | 19 27 | 5 7 | 52 78 | 50 58 | 31 43 | 0700-0800 0800-0900 |
| C E | 7 | 6 | 8 | 7 | 1700-1800 | 0 | 23 | 12 | · 9 | 11 | 0800-0900 |
| ₽, ₽ ₽ | , | 0 | • | , | 1700-1800 | 74 | , | 1.5 | 79 | 70 | 0800-0900 |
| Total | <u>1</u> <u>26</u> | 0 _15 | <u>2</u> 35 | <u>1</u> 25 | | <u>34</u> <u>80</u> | <u>38</u> | <u>15</u> 157 | <u>29</u> <u>146</u> | <u>20</u> 105 | 0000-0900 |
| | | | | | | | | | | | |
| WEATHER | | | | | | | | • | | | l |
| Pt. Atkinson | | | | | | | | | | | |
| Sky | CLDY | CLDY | ovc | | 1600 | CLDY | PT CLDY | PT CLDY | CLÔY | | 1000 |
| Visibility Precipitation | 15 | 5 F | 15 | | 1600 1600 | 14 | 10 | 15 | 15 | | 1000 |
| Wind Sea | W7 LT CHP | SE9 LT CHP | W2 LT CHP | | 1600 1600 | El4 LT CHP | NW4 RPLD | E4 RPLD | E3 RPLD | | 1000 |
| 564 | DI Chr | LI CHP | LT CHP | | 1000 | LT CHP | RP LLU | RPLD | | | |
| Sandheads | | | | | | | | | | | |
| Sky | CLDY | ovc | CLDY | | 1600 | ovc | PT CLDY | PT CLDY | CLDY | | 1000 |
| Visibility Precipitation | 15 | 8 | 15 | | 1600 1600 | 12 | 15 | 20 | 15 | | 1000 |
| Winć Sea | NW20 MOD | E8 LT CHP | NW16 LT CHP | | 1600 | El4 LT CHP | NW26 MOD | NW18 Mod | W6 LT CHP | | 1000 |
| 200 | HOD | LT CRP | DT CHP | | 1000 | DT CRP | RUD | AOD | LT CHP | | 1000 |

TABLE D-15: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, SEPTEMBER 1980

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

e Estimate.

| | SPORT BOAT | 1 . | WEEKI | | | | WFFY | ENDS | |
|-----|---------------|------------------|----------|---------|-----------|----------|----------|----------------|-----------|
| • : | COUNTS | Oct. 8 | Oct.23 | Mean | Time PDT | Oct.11 | Oct. 26 | Mean | Time PDT |
| | | Wed | Thu | | | Sat | Sun | | |
| | Area 13 | | | | | | | | |
| | A | 13 | Ó | 6 | 1000-1100 | 33 | 6 | 19 | 0900-1000 |
| | В | õ | ŏ | ŏ | 1000-1100 | õ | 0 | Ō | 0900-1000 |
| | с | 4 | 0 | 2 | 1000-1100 | 15 | 5 | 10 | 0900-1000 |
| | ' D | 0 | 0 | . 0 | 1000-1100 | 1 | . 0 | 1 | 0900-1000 |
| | E F | 6 | 1 | 4 | 1000-1100 | 9 | · 0 | 5 | 0900-1000 |
| | | | | | | | | | |
| | G Н | | | | | | | | |
| | Ĩ | | | | | , | • | | |
| | Ĵ | | | | | | | | |
| | Total | 23 | 1 | 12 | , | 58 | 11 | 35 | |
| | IULAI | <u> <u> </u></u> | <u> </u> | | | | <u></u> | | |
| | | | • | | | | | | • |
| | Area 14 | | | | | | | | |
| | • | 10 | , | | 0900-1000 | 13 | 7 | 1.0 | 0900-1000 |
| | A B | 20 | 1 | 5 11 | 0900-1000 | - 32 | 15 | 10 23 21 | 0900-1000 |
| | . Č | 19 | 2 | 10 | 0900-1000 | 39 | 3 | 21 | 0900-1000 |
| | D . | | ō | 1 0 | 0900-1000 | Ō | 19 | 10 | 0900-1000 |
| | E | 0 | 0 | 0 | 0900-1000 | 0 | 0 | 0 | 0900-1000 |
| | F - | 1 | 4 | 2 | 0900-1000 | 3 | 1 | 2 | 0900-1000 |
| | G | 0 | 0 | 0 | 1100-1200 | · 0 | 0 | - 0 | 1100-1200 |
| • | H. I | | | | | | | | |
| | . J | . 0 | 0 | 0 | 0900-1000 | 5 | 1 | 3 ~ | 0900-1000 |
| | ĸ | 0 | ŏ | ĭ | 0900-1000 | ī | ō | ĩ | 0900-1000 |
| | Total | 52 | 8 | .30 | | 93 | 46 | 70 | |
| | 10121 | _32 | <u> </u> | | | | 40 | | |
| | WEATHER | | | | | | • | | |
| | Chan Mudan | | · . | | · · | | | | |
| | Cape Mudge | | | | | | | | |
| | Sky | CLDY | ovc | | 1000 | ·OVC | ovc | | 1000 |
| | Visibility | 15+ | 15 | | 1000 | 10 | 12 | | 1000 |
| | Precipitation | RN SH | ÷ | | 1000 | | - | | 1000 |
| • | Wind | NW9 | CLM | | 1000 | NW4 | CLM | | 1000 |
| | Séa | RPLD | LT RPLD | | 1000 | RPLD | RPLD | | 1000 |
| | Cape Lazo | | | | | • | | | |
| | Sky | PT CLDY | CLDY | | 1000 | ovc | ovc | | 1000 |
| | Visibility | 15 | 3/FOG | | 1000 | 15 | . 12 | | 1000 |
| | Precipitation | - | - | | 1000 | VL RN SH | - | | 1000 |
| | Wind | NW15 | CLM | | 1000 | CLM | CLM | | 1000 |
| | Sea | CHPY | RPLD | | 1000 | RPLD | RPLD | | 1000 |
| | | | | | | | | | |
| | | | | | | | | | • |

١

TABLE D-16: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, OCTOBER 1980

• •

ſ

Į

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

| SPORT BOAT | | WEEKI | AYS | | | | ENDS | |
|-----------------------|----------------|-------------------------|--------|------------------------|---------------|----------------------------|---------|------------------------|
| COUNTS | Oct. 8 Wed | Oct.23 Thu | Mean | Time PDT | Oct.11 Sat | Oct.26 Sun | Mean | Time PDT |
| <u>Area 15</u> | | | | | | | | |
| А В | 0 | 2 | 1 | 1000-1100 | 16 | 6 | 11 | 1000-1100 |
| C C | 0 | 0 | 0 | 1000-1100 | . 0 | 1 | 1 | 1000-1100 |
| Total | 0 | 2 | 1 | | 16 | 7 | 12 | |
| | | | | | | | | |
| Area 16 | | | | | • | | | L |
| A B | 0 5 | . <mark>2</mark> . 8 | 1 6 | 0900-1000 0900-1000 | 5 9 | - 4 - 2 5 | 5 17 | 0900-1000 0900-1000 |
| С | Ű | 0 | 0 | 0900-1000 | Ó | 0 | ~ O | 0900-1000 |
| D | 0 | 0 | 0 | 1000-1100 | 0 | . 0 | 0 | 1000-1100 |
| E F | 0 2 | - 0 1 | 0 2 | 1000-1100 0900-1000 | 2 11 | . 0 | 8 | 0900-1000 |
| G | - 、 | - | - | | - | • | - | |
| H I | 0 | | 2 | 1000-1100 | 14 | 8 | 11 | 1000-1100 |
| 1 J | | 4 0 | 1 . | 0900-1000 | 6 | 4 | 5 | 0900-1000 |
| Total | <u>1</u> 8 | 15 | 12 | | 47 | 46 | 47 | <u></u> |
| | | <u> </u> | -# | | | | | _ |
| WEATHER | | | | | | - | | |
| Grief Point | | | | | | | | . L |
| Sky | PT CLDY | PT CLDY | | 0945 | CLDY | OVC | • | 0945 |
| Visibility | . 15 | 15 | | 0945 0945 | 12 | 15 | | 0945 |
| Precipitation Wind | NW15 | SE3 | | 0945 | E8 | E7 | | : 0945 } |
| Sea | CHPY | RPLD | | 0945 | LT CHP | RPLD | | 0945 |
| Merry Island | | | | | | | | |
| Sky | PT CLDY | CLDY | | 1000 | PT CLDY | CLDY | | 1000 |
| Visibility | 12 | 12 | | 1000 | 10 | 12 | | 1000 |
| Precipitation | - | - | | 1000 | _ | - | | 1000 |
| Wind Sea | NW10 LT CHP | NW4 RPLD | | 1000 1000 | SE4 RPLD | SE9 LT CHP | | 1000 |
| 004 | | | | 2000 | ••• | | | |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

TABLE D-17: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 15 AND 16, OCTOBER 1980

U []

Į

WEE Oct.26 Sun WEEKDAYS Oct.23 Mean Thu SPORT BOAT KENDS E COUNTS Oct. 8 Wed Mean Time PDT Oct.11 Sat Mean Time PDT Area 17 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 8 9 7 14 5 14 8 3 0 8 A B 162453 47 8 3 11 6 30 CD 5 1000-1100 1000-1100 1000-1100 1000-1100 386 4 4 20 20 0 40 12 0 E 16 _____0 5 G õ ŏ Ō 55 Total 21 41 31 93 74 Area 18 • 21 2 1 2 1000-1100 0900-1000 0900-1000 0900-1000 61 11 7 9 15 2 48 13 7 5 1000-1100 0900-1000 0900-1000 0900-1000 74 10 28 A B , 1 6 12 ¢ 3 ō D 1. 21 26 102 73 88 Total 30 WEATHER Entrance . CLDY . CLDY Sky Visibility 1000 CLDY CLDY 1000 10 2-5/FOG 1000 6-8 5-8/FOG Precipitation _ 1000 -1000 **S**4 Wind NW24 SE10 ESE12 1000 1000 Sea RPLD CHPY MOD 1000 CHPY 1000 East Point PT CLDY 10 1000 1000 Sky CLDY CLDY 1000 CLDY Visibility 15 15 1000 12 Precipitation --1000 1000 -. SW9 Wind N6 1000 S2 SE7

SOURCE : Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

1000

RPLD

RPLD

Sea

CHPY

CHPY

1000

1000

TABLE D-18: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, OCTOBER 1980

| | | | | ••• | | | | |
|---|--------------------------|---------------------------|------------------------|---|------------------------------|---------------------------|---------------------------|---|
| SPORT BOAT | Oct. 8 | Oct.23 | DAYS. Mean | Time PDT | Oct.11 Sat | WEEK Oct.26 Sun | ENDS Mean | Time PDT |
| Area 19A | Wed 52 | Thu 16 | 34 | 1000-1100 | 144 | · 84 | 114 | 1000-1100 |
| Area 19B+ B C D F | 4 6 3 6 0 | 2 1 4 22 3 | 3 3 4 14 2 | 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 | 3 9 28 102 21 | 2 10 31 76 58 | 3 10 29 89 39 | 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 |
| Total . | 19 | 32 | - 26 | | 163 | 177 | 170 | |
| Race Rocks Sky Visibility Precipitation Wind Sea | CLDY 10 W30 MOD | CLDY 12 NE28 MOD | • | 1000 1000 1000 1000 1000 | PT CLDY 10 NE8 RPLD | CLDY 10 E12 CHPY | • | 1000 1000 1000 1000 1000 |

TABLE D-19: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 19B+, OCTOBER 1980

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Offica, Vancouver.

• 1

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, OCTOBER 1980 TABLE D-20:

| SPORT BOAT | | WEE.K | DAYS | • | | WEEK | ENDS | |
|--|-------------------------------------|----------------------------|-----------------|--------------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------------------|
| COUNTS | Oct. 8 Ned | Oct.23 Thu | Mean | Time PDT | Oct.11 Sat | Oct.26 Sun | Mean | Time PDT |
| Area 28 | | | | | | | | |
| A B C | 15 | 1 | 8 | 0800-0900 | 19 | 47 | 33 | 0900-1000 |
| D E | <u> </u> | 2 0 3 | 3 | 0900-1000 0900-1000 | 25 | 14 <u>6</u> <u>67</u> | 20 5 | 0900-1000 0900-1000 |
| Total | 19 | | | | 48 | 6.7 | | |
| Area 29 | · . | | | | | | | |
| A B C D | 10 2 | 7 4 2 | 6 7 . 2 | 0800-0900 0900-1000 0900-1000 | 46 60 2 | 22 10 2 | 34 35 2 | 0800-0900 0900-1000 0900-1000 |
| E F Total | <u>6</u> 22 | <u>0</u> <u>13</u> | <u>3</u> _18 | 0800-0900 | <u>19</u> <u>127</u> | <u>3</u> <u>37</u> | <u>_11</u> <u>_82</u> | 0800-0900 |
| WEATHER Pt. Atkinson | 1 | | | . <u>.</u> | | • | •••• | |
| Sky Visibility Precipitatic Wind Sea | CLDY 8 W19 CHPY | CLDY 15 E6 LT CHP | | 1000 1000 1000 1000 1000 | PT CLDY 10 E6 LT CHP | CLDY 10 E2 RPLD | | 1000 1000 1000 1000 1000 |
| Sandheads | | | | | | | | |
| Sky Visibility Precipitatic Wind Sea | PT CLDY 15 m - NW6 RPLD | CLDY 15 E4 RPLD | | 1000 1000 1000 1000 1000 | CLDY 12 SELO LT CHP | CLDY 15 E8 LT CHP | | 1000 1000 1000 1000 1000 |

SOURCE :

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

۰.

| SPORT BOAT | | WEEK | | | | WEEK | | |
|-----------------------------|---------------------|---------------------|--------|------------------------|----------------|---------------------|--------|----------------------------|
| COUNTS | Nov.19 Wed | Dec.12 Fri | Mean | Time PST | Nov.22 Sat | Dec.14 Sun | Mean | Time PST |
| Area 13 | | | | | | | | |
| A B | 0 | 1 0 | . 1 | 1000-1100 | 0 | 0 | 0 | 1000-1100 1000-1100 |
| D D | 0 0 ^e | 0 0 ^e | Ö | 1000-1100 1000-1100 | 3 | 0 0 ^e | · 1 | 1000-1100 1000-1100 |
| E F | ō | Õ. | õ . | 1000-1100 | 1 | õ | 1 | 1000-1100 |
| G · | | | | | | | | |
| I J | ` | | | | | | | |
| Total | | | | | 4 | | 2 | |
| Drep 14 | | | • | - | | | | |
| <u>Area 14</u> A | 2 | . 3 | 3 | 1100-1200 | 0 | 2 | 1 | 1100-1200 |
| В | 0 | NA | 0 | 1100-1200 | 1 | 0 | 1 | 1100-1200 |
| · D | 0 0 | na Na | 0 0 | 1100-1200 1100-1200 | 1 0 | 0 | 1 0 | 1100-1200 L_) 1100-1200 |
| E F | 9 | 2 ^e | 5 | 1100-1200 | 3 ^e | 0 - | 1 | 1100-1200 |
| G H | | | | | | | •. | |
| I J | 0 | NA | 0. | 1100-1200 | 0 | 0 | . 0 | 1100-1200 |
| K L | 0 | NA | 0. | 1100-1200 | 0 | 0 | 0 | 1100-1200 |
| Total | | 5 | B | | <u> </u> | 2 | 4 | |
| WEATHER | | | | · . | • | | | _ |
| Cape Mudge | | | | | | | | Π |
| Sky | OBSC | ovc | | 0900 | ovc | ovc | | ليما 0900 |
| Visibility Precipitation | 1/8/FOG | 5/FOG | | 0900 0900 | 15+ | 10 RAIN | | 0900 0900 🏧 |
| Wind. Sea | Clm SMTH | NW5 RPLD | | 0900 0900 | CLM RPLD | SE16 CHPY | | 0900 |
| Cape Lazo | | | | | | | • | |
| | | | | | | | | |
| Sky Visibility | OVC 15 | OBSC 1/8/FOG | | 0900 0900 | PT CLDY 20 | ovc 8 | | 0900 |
| Precipitation Wind | CLM | CLM | | 0900 . 0900 | | RN SH SE20 | | 0900 0900 |
| Sea | RPLD | UNKN | | 0900 | RPLD | ROUGH | | 0900 |
| | | | | | | | | L |

TABLE D-21: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, NOVEMBER/DECEMBER 1980

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

-

^e - Estimate.

NA - Sub area not covered due to fog.

| SPORT BOAT | | | DAYS | • | | WEEX | E.N.D.S | |
|--|---------------------------------|---------------------------|---------|--------------------------------------|-------------------------------|-------------------------------------|---------|--------------------------------------|
| COUNTS | Nov.19 Wed | Dec.12 Fri | Mean | Time PST | Nov.22 Sat | Dec.14 Sun | Mean | Time PS1 |
| Area 15 | | | | | | | | |
| A B | . / 1 | 0 | 1 | 1000+1100 | 4 | 1 | 2 | 1000-1100 |
| C D | (| 0 | 0 | 1000-1100 | 1 . | 0 | , I | 1000-110 |
| Total | _1 | | | ». | 5 | _1 | 3 | |
| Area 16 | | | | | | | | |
| A B C D | 3 12 | 3 8 | 3 10 | 1000-1100 1000-1100 | 5 17 | 8 16 | 7 16 | 1000-1100 1000-1100 |
| D E F G | 0 | 0 | 0 | 1000-1100 | 0 | 1 | 1 | 1000-1100 |
| Ч Н Ј Ј | 0 | 0 | 0 0 | 1000-1100 1000-1100 | . 0 0 | 0 | 0 | 1000-1100 1000-1100 |
| Total | 15 | <u> 11</u> | 13 | | 22 | 25 | 24 | |
| EATHER | | | | | • | | | |
| rief Point | | | ٠. | | | | | |
| Sky Visibility Trecipitation Mind Hand | PT CLDY 12 N4 SMTH | OVC 15 S5 SMTH | | 0845 0845 0845 0845 0845 | CLDY 8 N5 SMTH | OVC 10 E20 CHPY | • | 0845 0845 0845 0845 0845 |
| erry Island | · · | | | | | | | |
| Sky Visibility Precipitation Wind Wea | PT CLDY 15+ N7 LT CHP | CLDY 10 NW7 RPLD | | 0900 0900 0900 0900 0900 | CLDY 15 - E4 RPLD | OVC 10 LT RAIN SE26 MOD | · | 0900 0900 0900 0900 0900 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

| TABLE D-23: S | PORT BOAT CO | UNTS AND WEATHE | R DURING | OVERFLIGHTS, | STATISTICAL AREA | S 17 AND 18, | NOVEMBER/D | ECEMBER 1980 |
|---------------|---------------|-----------------|-----------|------------------------|------------------|---------------|------------|-----------------------|
| | | | | | | | | |
| SPORT BOAT | | WEERD | | | | | ENDS | |
| COUNTS | Nov.19 Wed | Dec.12 Fri | Mean | Time PST | Nov.22 Sat | Dec.14 Sun | Mean | Time PST |
| Area 17 | | | | | | | | |
| A | 0 | 2 | 1 | 1100-1200 | 4 | 0 | 2 | 1000-1100 |
| В | 0 | 0 | 0 | 1100-1200 | 1 | 0 | 1 | 1000-1100 |
| C D | 1 | 0 | 1 | 1100-1200 | 2 | 0 | 1 | 1000-11 |
| E | U S | 3 | 0 | 1100-1200 1100-1200 | 12 | 1 | 1 E | 1000-11(1000-11(|
| F | Š | ž | 4 | 1100-1200 | 13 | õ | 6 | 1000+1100 |
| G | | _ | | | | • | · | |
| Total | 12 | B | 10 | | 32 | 1 | 17 | |
| | | <u> </u> | | | | <u></u> | <u></u> | |
| Area 18 | | | | | | | | |
| A | 2 | 10 | 6 | 1100-1200 | 9 | 10 | 9 | 1000-110 |
| В | 4 | 6 | 5 | 1000-1100 | 11 | 8 | 10 | 1000-110 |
| C p | 0 | 0 | 0 0 | 1000-1100 1000-1100 | 2 | 2 | . 2 | 1000-110 1000-1100 |
| - | | | <u> </u> | 1000-1100 | | · | | 1000-1100 |
| Total | <u></u> | _16 | <u>12</u> | | 23 | | 22 | |
| WEATHER | | | | | | | | |
| Entrance | | | | | | | | _ |
| Sky | CLDY | OVC | | 0900 | CLDY | OVC | | 0900 |
| Visibility | 10 | 4-8/FOG | | 0900 | 10 | 4-10 | | 0900 |
| Precipitation | | • | | 0900 | - | - | | 0900 |
| Wind Sea | NE8 | W6 | | 0900 | W2 | ESE22 | | 0900 |
| 364 | CEPY . | RPLD | | . 0900 | RPLD | MOD | | 0900 |
| East Point | | | | | | | | L |
| Sky . | CLDY | OVC | <i>.</i> | . 0900 | PT CLDY | CLDY | | 0900 |
| Visibility | 15 | 2-8/FOG | | 0900 | 15 | 15 | | 0900 |
| Precipitation | - | - | | 0900 | - | - | | 0900 |
| Wind | 5₩4 | NW6 | | 0900 | NEL3 | \$8 | | 0900 |
| Sea | RPLD | LT CHP | | 0900 | CHPY | LT CHP | | 0900 |

Cm) m7 Ca

SOURCE: Overflight records and Atmospheric Environment Service, Pacific Regional Office, Vancouver.

....

| TABLE D-24: | SPORT BOAT COUR | NTS AND WEATH | ER DURING | OVERFLIGHTS, | STATISTICAL / | AREAS 19A AND 19E | +, NOVEMBE | R/DECEMBER 1 |
|--|---|--------------------------------|-------------------------------|---|------------------------------------|----------------------------------|--|---|
| SPORT BOAT | Nov.19 Wed | WEER. Dec.12 Fri | DAYS <u>Mean</u> | Time PST | Nov.22 Sat | WEEK Dec.14 Sun | ENDS Mean | Time PST |
| Area 19A | 16 | 15 | 16 | 1100-1200 | 58 | 23 | 41 | 1000-1100 |
| Area 198+ C D E F Total | $ \begin{array}{r} 1 \\ 3 \\ 41 \\ 22 \\ \underline{4} \\ \overline{71} \end{array} $ | 9 1 29 20 11 70 | 5 2 35 21 8 71 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 10 10 101 58 12 191 | 18 1 45 40 10 114 | 14 6 73 49 <u>11</u> <u>153</u> | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 |
| WEATHER Race Rocks Sky | ovc | CTUDY | | 0900 | ovc | - ovc | | 0900 |
| Visibility Precipitation Wind Sea | 5/FOG | 10 N12 CHPY | | 0900 0900 0900 0900 | 10 NE15 CHPY | 4/FOG RAIN NES RPLD | , | 0900 0900 0900 0900 |

SOURCE: Overflight records and Atmospheric Environment Service, Pacific Regional Office, Vancouver.

1 .

| SPORT BOAT | | WEEK | DAYS | | WEEKENDS | | | | |
|-----------------------|-----------------------|---------------|-----------------------|------------------------|------------------|----------------|-----------------------|------------------------|--|
| COUNTS | Nov.19 Wed | Dec.12 Fri | Mean | Time PST | Nov.22 Sat | Dec.14 Sun | Mean | Time P5' | |
| Area 28 | | | | | | | | , F | |
| A B | 10 | 33 | 22 | 0900-1000 | 48 | 41 | 44 | 0900-1000 | |
| a a | 5 | 7 | 6 | 0900-1000 | . 3 | 7 | 5 | 0900-1000 0900-1000 | |
| ' E Total | 0 15 | 44 | <u>2</u> <u>30</u> | 0900-1000 | <u>14</u> _65 | <u>3</u> 51 | <u>9</u> <u>58</u> | 0900-1000 | |
| 1 18 | | | | | | | | . U | |
| Area 29 | | ` | | | | | | | |
| · A | 3 0 | 6 1 | 4 | 0900-1000 | 17 | 13 | 15 | 0900-1000 | |
| B | 0 | 1 | 1 2 | 0900-1000 0900-1000 | 26 | 0 | 13 | 0900-1000 | |
| CD | 2 | 1 | 2 | 0900-1000 | • | Ū. | - | 0300-1000 | |
| E | | | - | | | | | | |
| F | <u>9</u> <u>14</u> | 1 | 5 | 0900-1000 | | 0 13 | _1 | 0900-1000 | |
| Total | 14 | 9 | 12 | | _48 | | _31 | | |
| WEATHER | | | | | | | | | |
| Pt. Atkinson | | | | | | | | | |
| Sky | CLDY | OVC | | 0900 | CLDY | OVC | | 0900 | |
| Visibility | 15 | 15 | | 0900 0900 | 15 | 10 V L RAIN | | 0900 0900 💼 | |
| Precipitation Wind | NW2 | - E4 | | 0900 | NE2 | E19 | | 0900 | |
| Sea | RPLD | RPLD | | 0000 | RPLD | CHPY | | 0900 | |
| Sandheads | | | | | | | | - | |
| Sky | CLDY | ovc | - | 0900 | CLDY | ovc | | 0900 | |
| Visibility | 15 | 10 | | 0900 | 15 | 15 | | 0900 | |
| Precipitation | · • • · | - | | 0900 | - | ~ | | 0900 | |
| Wind Sea | CLM | N10 LT CHP | | 0900 0900 | NE6 RFLD | SE12 LT CHP | | 0900 | |
| 368 | RPLU | DT CRP | | 0900 | RP LU | Li Car | | 0300 | |

TABLE D-25: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, NOVEMBER/DECEMBER 198

SOURCE: Overflight records and Atmospheric Environment Service, Pacific Regional Office, Vancouver.

•)

.

.

•

SPORT BOAT WEEKENDS WE E KDA Y S Jan.26 Mon Feb.18 Wed Jan.10 Sat Feb. 8 Sun Time PST COUNTS Time PST Mean Mean Area 13 A 0 .9 4 1000-1100 16 21 18 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 0 0 BCÓEF 0 0 07. 0 1000-1100 1000-1100 1000-1100 1000-1100 00 2 1 0 1 1 0 4 5 0 0'e 1 1 ō G H IJ 0 12 6 22 28 25 Total Area 14 1100-1200 1100-1200 1100-1200 3 13 ABCDEFGH 0 3 ٥ 1100-1200 100 003 00 1100-1200 302 3 2 1 1100-1200 0 1 1100-1200 õ 0 1 1 1100-1200 4 2 3 1100-1200 J 0 1000-1100 1000-1100 0 0 1000-1100 0 0 0 2 ĸ 1 , **1**-. 1000-1100 0 3 L Total 0 8 4 9 14 12 ; WEATHER Cape Mudge Sky OVC OVC 0900 CLDY ovc 0900 Visibility 8 15+ 0900 12 15+ 0900 Precipitation RAIN SE23 0900 --0900 -Wind CLM 0900 CLM CLM 0900 Sea CHPY RPLD 0900 SMTH RPLD 0900 Cape Lazo с. Sky ovc CLDY 0900 ovc OBSC 0900 Visibility 10 15 0900 20 .75/FOG 0900 Precipitation LT RAIN 0900 -Wind SE20 SW5 0900 CLM CLM 0900 Sea MOD CHP RPLD 0900 RPL-D RPLD 0900

TABLE D-26: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, JANUARY/FEBRUARY 1981

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

e - Estimate.

D-29

| TABLE D-27: SI | PORT BOAT COU | INTS AND WEATH | IER DURING | OVERFLIGHTS, ST | ATISTICAL ARE | AS 15 AND 16, | JANUARY/FE | BRUARY 1981 |
|-----------------------------|---------------|----------------|------------|------------------------|----------------|---------------|------------|------------------------|
| , | | | | | | | | فسينا |
| SPORT BOAT | | WEEK | | | | WEEK | | Time PST |
| COUNTS | Jan.26 Mon | Feb.18 Wed | Mean | Time PST | Jan. 10 Sat | Feb. 8 Sun | Mean | TIME PSI |
| Area 15 | | | • | | | | | |
| A B | 0 | 1 | 0 | 1000-1100 | 6 | 3 | 5 | 1000-1100 |
| c | 0 | 1 | 1 | 1000-1100 | 0 | 0 | 0 | 1000-1100 |
| D Total | 0 | 2 | 1 | | | 3 | 5 | |
| IVLAI | <u> </u> | * | <u> </u> | | <u> </u> | | <u> </u> | L 🗖 |
| Area 16 | | | | | | | | |
| A B | 1 | 0 1 | · 1 2 | 1000-1100 1000-1100 | 7 20 | 3 31 | . 5 25 | 1000-1100 1000-1100 |
| č | 2 | 1 | - | 1000-1100 | 20 | 31 | 23 | |
| C D E F | | | | | | | | |
| F G | 1 | 1 | 1 | 1000-1100 | Û | 0 | | |
| H · | Ŭ D | 0 | 0 | 1000-1100 1000-1100 | 1 2 | 0 | 1 | 1000-1100 |
| Ĵ | - | | | | <u> </u> | | | |
| Total | <u>5</u> | 2 | | | 30 | _ 39 | 35 | |
| WEATHER | | · | | | | - | • | . [] |
| Grief Point | | • | , | | | | | امط . |
| Sky | ovc | CLDT | | 0845 | CLDY | ovc | | 0845 💼 |
| Visibility Precipitation | 10 LT RAIN | 10 | | 0845 0845 | 12 | 10 | | 0845 |
| Wind Sea | E10 LT CHP | E10 LT CHP | | 0845 | SE8 LT CHP | NE4 SMTH | | 0845 |
| | | | • | . 0045 | Li Chr | SHIN | | - |
| Merry Island | | | | | | | | |
| Sky Vísibilíty | ove | ave | | 0900 0900 | CLDY | CLDY | | 0900 ~~~ 0900 |
| Precipitation | 15 RN SH | 15 | | 0900 | 30 | 15+ | | 0900 🛲 |
| Wind Sea | SE26 MOD | ElO LT CHP | | 0900 0900 | NE3 RPLD | NI RPLD | | 0900 |
| | | | | | | | | إرسا |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

| SPORT BOAT | | WEEK | DAYS | | | WEEK | ENDS | |
|---|--------------------------------------|--------------------------------|-----------------------|--|-----------------------------|--------------------------------|---------------------------------|--|
| COUNTS | Jan.26 Mon | Feb.18 Wed | Mean | Time PST | Jan.10 Sat | Feb. 8 Sun | Mean | Time PST |
| Area 17 | | | | | | | | |
| A B C D E F G | 2 0 0 0 | 10 6 3 3 6 | 6 3 1 2 3 | 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 | , 0 3 2 33 8 | 4 1 21 4 70 15 | 2 2 12 3 51 12 | 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 |
| Total | 2 | 34 | 18 | | 49 | 115 | 82 | |
| Area 18 | | | | | | | | |
| A B C D Total | | 14 7 1 <u>2</u> 24 | 7 4 1 13 | 1000-1100 1000-1100 1000-1100 1000-1100 | 2 57 0 4 63 | 18 7 9 <u>3</u> 37 | 10 32 4 <u>-</u> 50 | 1000-1100 1000-1100 1000-1100 1000-1100 |
| WEATHER | | | | | | | | |
| Entrance | | | | | | • . | | |
| Sky . Visibility Precipitation Wind Sea | ovc 8 Rain Se20 Rough | OVC 10 SIO RPLD | | 0900 0900 0900 0900 0900 | PT CLDY 8 SE8 RPLD | CLDY 10 NE6 CHPY | | 0900 0900 0900 0900 0900 |
| East Point | | | | | | | | |
| Sky Visibility Precipitation Wind Sea | OVC 15 V L RAIN SE20 MOD | CLDY 15 SW7 CHPY | | 0900 0900 0900 0900 0900 | CLDY 15 NW6 LT CHP | OVC 6/FOG NE6 LT CHP | | 0900 0900 0900 0900 0900 |

TABLE D-28: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, JANUARY/FEBRUARY 1981

SOURCE:

•

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

| SPORT BOAT | | | DAYS | | W E E K E N D 5 Jan.10 Feb. 8 Mean Time PST 44 175 110 1000-1100 32 36 34 1000-1100 2 2 2 1000-1100 143 49 96 1000-1100 50 56 53 1000-1100 33 -9 -21 1000-1100 260 152 206 100 7 0900 15 10 | | | | | | ND5 | | |
|---|--|------------------------------------|-------------------------------|---|---|--------------------|-----------------------|-------------------------------------|--|--|-----|--|--|
| COUNTS | Jan.26 Mon | Feb.18 Wed | Mean | Time PST. | Jan.10 Sat | Feb. 8 | | Time PST | | | | | |
| Area 19A | 22 | 21 | 22 | 1000-1100 | 44 | 175 | 110 | 1000-1100 | | | | | |
| Area 19B+ | , | | | | | | | | | | | | |
| B C D F F Total | 0 2 4 0 6 | 4 6 3 5 <u>6</u> 24 | 2 3 4 <u>3</u> 15 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 2 143 50 33 | 2 49 56 9 | . 2 96 53 21 | 1000-1100 1000-1100 1000-1100 | | | | | |
| WEATHER Race Rocks | | | | | · . | | | | | | | | |
| Sky Visibility Precipitation Wind Sea | CLDY 8 LT RN SH NW5 LT CHP | OVC 12 W14 MOD | | 0900 0900 0900 0900 0900 | | 10 | | | | | | | |
| | | | | | | | | | | | | | |

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

JANUARY/FEBRUARY 19

SOURCE:

D-32

TABLE D-29: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 198+,

| | | | | | · · · | | | | | | |
|-------------------|----------------|-----------------------|------|-------------------------------------|---------------|----------------|----------------|------------------------|--|--|--|
| SPORT BOAT | • | WEEK | DAYS | | t | WEEK | ENDS | • | | | |
| COUNTS | Jan. 26 Mon | Feb.18 Wed | Mean | Time PST | Jan.10 Sat | Feb. 8 Sun | Mean | Time PST | | | |
| Area 28 | | | | | | | | | | | |
| A B C | 8 | 6 · | 7 | 0900-1000 | 46 | 40 | 43 | 0900-1000 | | | |
| B C D E | 4 · · | 6 0 | 5_0 | 0900 - 1000 0900-1000 | 38 | 15 | 27 | 0900-1000 0900-1000 | | | |
| Total | 12 | 12 | 12 | 0,000 2000 | 88 | 15 12 67 | <u>8</u> 78 | 0300-1000 | | | |
| Area 29 | , | | | | | | | | | | |
| A B | 0 1 | 10 1 | 5 | 0900-1000 0900-1000 | 110 | 54 16 | 82 | 0900-1000 0900-1000 | | | |
| B C D | ō | î | ĩ | 0900-1000 | 5 | 4 | 4 | 0900-1000 | | | |
| E F | 1 | 5 | 2 | 0900-1000 | 3 | | 2 | 0900-1000 | | | |
| Total | <u>. 1</u> | <u>5</u> <u>17</u> | 9 | | <u> </u> | <u> </u> | <u>2</u> 99 | | | | |
| WEATHER | | | | | | | | | | | |
| Pt. Atkinson | | | | | | • | | | | | |
| Sky Visibility | ovc | 0VC 15 | | 0900 | CLDY 12 | CLDY 12 | | 0900 | | | |
| Precipitation | LT RAIN | · • | | 0900 | - | - | | 0900 | | | |
| Wind Sea | SE12 CHPY | E10 LT CHP | | 0900 0900 | NE2 RPLD | E4 RPLD | · | 0900 0900 | | | |
| Sandheads | . • | | | | • | | - | | | | |
| Sky Visibility | OVC 12 | CLDY 15 | | 0900 0900 | CLDY 12 | PT CLDY | | 0900 | | | |
| Precipitation | - | - | | 0900 | - | - | | 0900 | | | |
| Wind Sea | E22 MOD | S12 LT CHP | | 0900 0900 | CLM . RPLD | E4 RPLD | | 0900 | | | |
| | FIGD - | | | 0300 | NP LU | لتسليهم | | 0900 | | | |

TABLE D-30: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, JANUARY/FEBRUARY 1981

SOURCE: Overflight records and Atmospheric Environmment Service, Pacific Regional Office, Vancouver.

| SPORT BOAT | | WEEK | | | | WEEK | ENDS | |
|---------------|----------|---------|--------|------------------------|---------|------------|------|-----------------|
| COUNTS | Mar.10 | Mar.25 | Mean | Time PST | Mar.14 | Mar.22 | Mean | Time PST |
| <u></u> | Tue | Wed | | | Sat | Sun | | |
| | | | | | | | | |
| Area 13 | | | | | | | | ور |
| | | - | | | | | | r 1000 1100 |
| A | 6 0 | 2 | 4 | 1000-1100 | 1 | 6 0 ··· | 4 | 1000-1100 |
| B C | Ö | 2 | 0 1 | 1000-1100 1000-1100 | 12 | 9 | 10 | 1000-110(|
| D | ő | Ó | ō | 1000-1100 | 0 | ō | 0 | 1000-110 |
| Ē | ŏ | 2 . | ĭ | 1000-1100 | 3 | ī | . 2 | 1000-1100 |
| F | • | - | - | | • | - | | |
| G | | | | | | | | |
| н | | | | | • | | | |
| I | | | | | | | | |
| J | | · | | | | · | _ | ن ا ' |
| Total | 6 | 6 | 6 | | 16 | 16 | 16 | • |
| IUCAL | | | | , | | | | _ |
| | | | | • | | | , | |
| Area 14 | • | | | | | | | |
| | | | | · · | | | | |
| A | . 2 | 1 0 | 1 | 1100-1200 | 3. | 8 | 5 | 1100-1200 |
| В | 3 | 0 | 2 | 1100-1200 | 1 | 0 | 1 | 1100-1200 |
| C | 0 | 0 | 0 | 1100-1200 | 0 | 0 | | 1100-120 |
| , D | 3 | 2 | 2 | 1100-1200 | 4 | 0 | 2 | 1100-120 |
| É | 0 | 0 | 0 | 1100-1200 | 0 | 0 1 | 2 | 1100-120 |
| F G | - 0 | 1 | 1 | 1100-1200 1100-1200 | 4 | 1 | 1 | 1100-1200 |
| H | ~ U | U. | υ. | 7100-1500 | U | . • | + | 1100-1200 |
| - I - | • | | | | | | | |
| J | 0 | 0 | 0 | 1100-1200 | 0 | 0 | 0 | 1100-120 |
| . K | ĩ | ŏ | ĩ | 1100-1200 | ŏ | ŏ | ō | 1100-1200- |
| L | | | | | | | | |
| Total | 10 | 4 | .7 | | 12 | . 10 | 11 | |
| TOLAL | | <u></u> | | | <u></u> | | | |
| | | | | | | | | |
| WEATHER | | | | | | | | <u> </u> |
| | | | | | | | | |
| Cape Mudge | | | | | | | | |
| | | | • | | | | | |
| Sky | OVC | PT CLDY | | 0900 | ovc | CLDY | | 0900 |
| Visibility | 10 | 15+ | | 0900 | 15+ | 15+ | | 0900 🗔 |
| Precipitation | • | • | | 0900 | · · · • | - | | 0900 |
| Wind | NW4 | SE5 | | 0900 | SE6 | SE2 | | 0900 |
| Sea. | RPLD | RPLD | | 0900 | RPLD | RPLD | • | . 09'00 |
| | | | | | | | | |
| Came 1 444 | | | | | | | | |
| Cape Lazo | | | | | | | | |
| Sky | CLDY | PT CLDY | | . 0900 | CLDY | PT CLDY | | 0900 - |
| Visibility | 15 | 20 | | 0900 | 15 | 20 | | 0900 |
| Precipitation | LT RN SH | - | | 0900 | - | | | 0900 |
| Wind | W10 | SSE5 | | 0900 | NE5 | CLM | | لتنبأ 0900 |
| Sea | RPLD | LT CHP | | 0900 | CHPY | LT RPLD | | - 0900 |
| | | | | | | | | |
| | | | | | | | | |

TABLE D-31: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, MARCH 1981

SOURCE:

E: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office,

^a - Time of weather report is 1000 PST for Cape Mudge on March 25.

D-34

| SPORT BOAT | | WEEK | DAYS | | | WEEK | 2 2 1000-1100 0 0 1000-1100 2 2 2 9 5 1000-1100 0 13 1000-1100 0 5 1000-1100 0 0 1000-1100 2 2 2 1000-1300 4 1000-1100 | | |
|-------------------------------------|---------------|---------------|------------|------------------------|-------------------------|---------------|--|---------------------|--|
| COUNTS | Mar.10 Tue | Mar.25 Wed | Mean | Time PST | Mar.14 Sat | Mar.22 Sun | Mean | Time PST | |
| Area 15 | | | | | | | | | |
| A B | 2 | 0 | . 1 | 1000-1100 | 1 | 2 | 2 | 1000-1100 | |
| C D | 0 | 0 | 0 | 1000-1100 | 0 | 0 | 0 | 1000-1100 | |
| Total | 2 | 0 | · <u>1</u> | | 1 | 2 | 2 | | |
| Area 16 | | | | | | , | | | |
| А' В | 3 11 | 0 9 | 2 10 | 1000-1100 1000-1100 | .1 6 | 9 20 | | | |
| с | | | 20 | 2000-2200 | Ŭ | | | 1000-1100 | |
| D E F | .0 | 2 | 1 | 1000-1100 | 0 | 10 | 5 | | |
| G . H | 0 | 0 | 0 | 1000-1100 | 0 | 0 | . 0 . | | |
| J J | | e | . 2 | 1000-1100 1000-1100 | $\frac{1}{4^{e}}$ | 2e | 4 | | |
| Total | 20 | 13 | 17 | | 12 | 45 | 29 | | |
| WEATHER | | | : | · | | | | , | |
| Grief Point | • • | | | | | ; | | | |
| Sky Visibility | ovc 7 | CLDY 15 | | 0845 0845 | CLDY | CLDY 10 | | 0845 0845 | |
| Precipitation Wind | NW2 | SE15 | | 0845 | LT RN SH SEll | SELL | | 0845 | |
| Sea | SMTH | CHPY | | | CHPY | LT CHP | : | 0845 | |
| Merry Island | | | | | | | . • | | |
| Sky Visibility | CLDY 12 | PT CLDY | | 0900 | CLDY | PT CLDY | | 0900 | |
| Precipitation | - | • | | 0900 | LT RN SH | - | | 0.900 | |
| Sea | N4 RPLD | LT CHP | | 0900 | SE21 MOD | LT CHP | | 0900 | |
| Visibility Precipitation Wind | 12 N4 | 15+ | | 0900 0900 0900 | 15+ LT RN SH SE21 | 15+ | | - 090 090 090 | |

TABLE D-32: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 15 AND 16, MARCH 1981

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

- Estimate.

| SPORT BOAT | • | WEEK | DAYS | | | WEEK | ENDS | |
|---------------|------------------------------|--------------------|--------------|------------------------|--------------|------------|-----------------|------------------------|
| COUNTS | Mar.10 | Mar.25 | Mean | Time PST | Mar.14 | Mar.22 | Mean | Time PST |
| | Tue | Wed | | | Sat | Sun | | |
| Area 17 | | | | | | | | |
| λ | 0 | 4 | 2 6 | 1100-1200 | 5 | 13 | 9 | 1100-1200 |
| в | 6 | 5 | 6 | 1100-1200 | 5 5 17 | 7 | 6 | 1100-1200 |
| C D E | 3 2 10 7 0 28 | 3 | 3 1 15 | 1100-1200 1100-1200 | 2 | 14 | 16 | 1100-1200 1100-1200 |
| E · | 10 | 0 20 12 0 | 15 | 1100-1200 | 14 | 44 | 29 | 1100-1200 |
| F | | 12 | | 1100-1200 | 5 | 19 | 12 | 1100-1200 |
| G | 0 | 0 | 9 | 1100-1200 | 0 | _ 0 | · <u>0</u> | 1100-1200 |
| Total | 28 | 44 | 36 | | 48 | 103 | 76 | |
| | | | | | | | | |
| Area 18 | | | | | | · . | | |
| . λ | 12 | 3 | 8 | 1000-1100 | 19 | . 33 | 26 | 1000-110(|
| В | 7 | 3. 9 17 | 8 | 1000-1100 | 13 | 28 | 20 | 1000-1100 |
| C | 8 | 17 | 12 | 1000-1100 | 9 | 19 | 14 | 1000-310(|
| , D | | 7 | 4 | 1000-1100 | 3 | 16 | 10 | 1000-110(|
| Total | 12 7 8 0 27 | 36 | 32 | | 44 | 96 | <u>10</u> 70 | |
| | | | | | | | | |
| WEATHER | | | | | | | | |
| Entrance | | | | | | | | |
| Sky | CLDY | PT CLDY | | 0900 | CLDY | CLDY | , | 0900 |
| Visibility . | 8 | 6-8 | | 0900 | 8 | 10 | | 0900 |
| Precipitation | - | - ' | | 0900 | - | - | | 0900 |
| Wind | SE6 | ENE 8 | | 0900 | ESE10 | 56 | | 0900 |
| Sea | RPLD | RPLD | | 0900 | CHPY | RPLD | | 0900 |
| East Point | | | | | | | | |
| Base Polite | | | | | • . | | | |
| Sky | CLDY | CLDY | | . 0900 | CLDY | PT CLDY | | 0900 |
| Visibility | 12 | 15 | | 0900 | 15 | 15 | | 0900 |
| Precipitation | - | - | | 0900 | - | - | | 0900 |
| Wind Sea | SW2 RPLD | SW8 CHPY | | 0900 0900 | SW7 CHPY | S5 RPLD | | 0900 |
| | | uari , | | 0900 | CHEI | للعلاجاته | | 0900 |

SOURCE :

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, MARCH 1981 TABLE D-33:

| | ٠. | | | | | | | |
|---|---------------------------|----------------------------------|--------------------------------|---|---|--|-----------------------------------|---|
| SPORT BOAT | | WEEK | DAYS | | | WEEK | | |
| COUNTS | Mar.10 Tue | Mar.25 Wed | Mean | Time PST | Mar.14 Sat | Mar.22 Sun | Mean | Time PST |
| Area 19A | . 29 | 22 | 26 | 1000-1100 | 74 | 68 | 71 | 1000-1100 |
| Area 19B+ | | | | | • | | | |
| B C D F F Total | 10 14 19 5 67 | 5 11 12 14 10 52 | 8 13 15 16 8 60 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 15 52 20 24 <u>49</u> <u>160</u> | 32 23 34 66 <u>35</u> 190 | 24 37 27 45 42 175 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 |
| WEATHER | | | | | | | | |
| Race Rocks | | | | | | | | |
| Sky Visibility Precipitation Wind Sea | CLDY 12 N3 RPLD | PT CLDY 12 - W8 CHPY | | 0900 0900 0900 | CLDY 12 W10 CHPY | PT CLDY 12 W9 LT CHP | | 0900 0900 0900 0900 0900 |

TABLE D-34: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 198+, MARCH 1981

SOURCE:

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

| SPORT BOAT | | WEEK | | | | | | |
|-------------------------------------|-----------------|-----------------------|-------|------------------------|---------------|-----------------|-------------------------|------------------------|
| COUNTS | Mar.10 Tue | Mar.25 Wed | Mean | Time PST ⁸ | Mar.14 Sat | Mar.22 Sun | Mean | Time PST |
| Area 28 | | | | | | | | |
| A B C | 9 | 2. | 6 | 0900-1000 | 42 | 42 | 42 | 0900-1000 |
| C D E | 9 | 9 | 9 | 0900-1000 | 31 | 43 | 37 | 0900-1000 |
| E Total | <u>9</u> 27 | <u>1</u> <u>12</u> | 20 | 0900-1000 | 20 | <u>13</u> 98 | <u>17</u> <u>96</u> | 0900-1000 |
| Nec. 79 | | | | | | | | |
| Area 29 A | 27 | 6 | 16 | 0900-1000 | 19 | 18 | 19 | 0900-1000 |
| в | 4 | 6 3 1 | 3 2 | 0900-1000 0900-1000 | 6 1 | 21 2 | 13 | 0900-1000 0900-1000 |
| C D E F | | | | 0900-1000 | , | | | |
| Total | <u>3</u> _36 | <u>0</u> <u>10</u> | 23 | 0900-1000 | | <u>0</u> 41 | <u>_2</u> <u>_36</u> | 0900-10 00 |
| WEATHER | | r | | | | | | |
| Pt. Atkinson | | | | | | | | |
| Sky | CLDY | CLDY | | 0900 | ovc | CLDY | | 0900 |
| Visibility Precipitation Wind | 15 - NW6 | 15 - SE3 | | 0900 0900 0900 | 15 · | 15 | | 0900 0900 0900 |
| Sea | RPLD | RPLD | ÷ | 0900 | CHPY | CHPY | | 0900 |
| Sandheads | | | | | | | | |
| Sky Visibility | PT CLDY 15 | CLDY 15 | | 0900 | OVC 15 | PT CLDY 15 | | 0900 |
| Precipitation Wind | - E6 | SWB | | 0900 | - - E8 | 15 - SW14 | | 0900 |
| Sea | RPLD | LT CHP | | 0900 | LT CHP | CHPY | | 0900 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^a - Time of weather report is 1200 PST for Pt. Atkinson on March 10.

TABLE D-35:

D-38

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, MARCH 1981

WEEKDAYS Apr.24 Mean Fri SPORT BOAT Time PST^a Time PST Apr.25 Mean Apr.18 Меал Apr. 9 Thu COUNTS Sat Sat Area 13 1000-1100 1000-1100 1000-1100 8 23 6 14 1000-1100 6 1 1 1 4 A B C 20 2 8 0 1 1000-1100 1000-1100 2 8 8 0 1000-1100 2 1000-1100 D 12 3 0 1000-1100 6 1000-1100 E F 4 5 1 1 F . -H I J 10 40 20 30 7 13 Total Area 14 1100-1200 1100-1200 2 10 1 6 15 9 1100-1200 13 1 1 1 1 0 ABCD 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 9 9 15 3 0 0 1 1100-1200 3 3 9 1100-1200 3 1 1 0. 1100-1200 ō Õ E 3 õ 2 1100-1200 13 10 11 G Õ Õ ō 1100-1200 0 0 0 Ħ I J 1100-1200 1100-1200 12 1 0 1100-1200 02 0 0 502 9 1 Ō 1 K L ō 1100-1200 1100-1200 0 1 9 8 9 62 41 52 Total WEATHER Cape Mudge Sky Visibility CLDY CLDY 0900 CLR PT CLDY 15 0900 15 0900 15+ 0900 15+ Precipitation 0900 0900 Wind NW5 CLM 0900 SE9 NW3 0900 Sea RPLD SMTH 0900 RPLD RPLD 0900 Cape Lazo PT CLDY 15 Sky CLDY CLDY 0900 CLR 0900 Visibility 15 20 **090**0 20 0900 0900 Precipitation --0900 NW5 Wind ENE8 0900 N5-10 NW1-0 0900 Sea RPLD 0900 RPLD CHPY RPLD 0900

TABLE D-36: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, APRIL 1981

WEEKENDS

· · ·

SOURCE:

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

a - Time of weather report is 1200 PST for Cape Mudge and Cape Lazo on April 25.

D-39

TABLE D-37: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 15 AND 16, APRIL 1981

| | | | | , | | | | |
|-----------------------------|----------------|---------------|--------------|------------------------|------------------------------|----------------|------------------------------|---------------------------------------|
| SPORT BOAT | | WEEX | | | | NEEK | | · · · · · · · · · · · · · · · · · · · |
| COUNTS | Apr. 9 Thu | Apr.24 Fri | Mean | Time PST | Apr. 18 Sat | Apr.25 Sat | Mean | Time PST |
| Area 15 | | | | | | 1 | > | |
| A B | 1 | 1 | 1 | 1000-1100 | . 8 | 2 | 5 | 1000-1100 |
| C | 0 | о С | 0 | 1000-1100 | 5 | , o | 3 | 1000-1100 |
| Total | 1 | _1 | 1 | • | 13 | 2 | 8 | • • |
| Area 16 | | - | | | | | | |
| A B C D E F | 1 5 | 8 14 | 5 9 | 1000-1100 1000-1100 | 35 123 | 10 28 | 22 75 | 1000-1100 1000-1100 |
| e F G H | 2 | 2 0 | 2 | 1000-1100 1000-1100 | 14 1 | 5 | 10 1 | 1000-1100 1000-1100 |
| I J Total | 6 13 | 1 5 30 | 1 5 22 | 1000-1100 1000-1100 | 9 <u>10</u> <u>197</u> | e | 7 <u>10</u> <u>125</u> | 1000-1100 1000-1100 |
| WEATHER | | | | • . | • | • • | | |
| Grief Point Sky | ovc | PT CLDY | | 0845 | CLR | CLR | | 0845 |
| Visibility Precipitation | 15 | 15 | | 0845 | 15 | 15 | • • | 0845 |
| Wind Sea | SE10 LT CHP | SE8 RPLD | | 0845 | W3 SMTH | W10 RPLD | | 0845 0845 0845 |
| Merry Island | • | | | | | | | |
| Sky | CLDY | CLDY | | 0900 | PT CLDY | PT CLDY | | 0900 |
| Visibility Precipitation | 15+ | <u>16+</u> ; | | 0900 0900 | 15+ | 1:5+ | | 0900 0900 |
| Wind Sea | SE7 LT CHP | W3 RPLD | | 0900 0900 | NW6 RPLD | NW10 LT CHP | , | 0900 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

- Time of weather report is 1145 PST for Grief Point on April 25.

5

D-40

STATISTICAL AREAS 17 AND 18, APRIL 1981 SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, TABLE D-38: . SPORT BOAT W E Apr.24 Fri WEI Apr.25 Sat EKENDS EXDAYS Apr. 9 Thu Mean Time PST Apr.18 Sat Mean Time PST Area 17 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 5 4 1100-1200 1100-1200 1100-1200 1 3 12 19 0 0 1 3 2 7 11 0 8 6 12 23 14 19 38 1 А В Ō 20 36 13 27 50 0 CD 10 15 11 26 1 3324 1100-1200 1100-1200 1100-1200 ĒFG Ó 1100-1200 1100-1200 37 12 25 154 72 113 Total • Area 18 2 0 10 1 1000-1100 1000-1100 1000-1100 1000-1100 20 5 24 14 12 6 12 16 16 6 18 15 1000-1100 1000-1100 1000-1100 Ъ В С ٥ 115 115 Ď 1000-1100 3 46 13 7 10 63 55 Total . WEATHER Entrance Sky Visibility CLDY CLDY 0900 PT CLDY PT CLDY 15 15 0900 10 12 0900 0900 0900 0900 Precipitation --0900 . NE4 ESE8 0900 WNW18 Wind WNW12 RPLD RPLD Sea CHPY MOD East Point Sky Visibility CLDY CLDY 0900 CLDY PT CLDY 15 VL RN SH 15 0900 0900 12 15 Precipitation 0900 0900 -Wind SW22+ SW14 0900 NW8 W4 0900 Sea CHPY CHPY 0900 LT CHP LT CHP 0900

SOURCE :

Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

TABLE D-39: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 19B+, APRIL 1981

| | | | | • | | | | |
|--|----------------------------|---------------------------|-------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|---|
| SPORT BOAT | | WEEK | DAYS | | | WEEK | ENDS | |
| COUNTS | Apr. 9 Thu | Apr.24 Fri | Mean | Time PST | Apr.18 Sat | Apr.25 Sat | Mean | Time PST |
| Area 19A | 8 | . 7 | . 8 | 1000-1100 | 54 | 55 | 55 | 1000-1100 |
| Area 19B+ | | | | | 1 | | | |
| B C D E F Total | 2 0 4 1 2 9 | 1 2 6 1 11 | 1 3 2 10 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 34 27 22 56 25 164 | 13 41 12 75 22 163 | 24 34 17 65 24 164 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 |
| WEATHER Race Rocks Sky Visibility Precipitation Wind Sea | CLDY 12 SW18 CHPY | CLDY 12 W15 CHPY | • | 0900 0900 0900 0900 0900 | CLR 12 - NE8 RPLD | PT CLDY 15 - S3 RPLD | | 0900 0900 0900 0900 0900 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

- Time of weather report is 1200 PST for Race Rocks on April 25.

<u>,</u> 1

| TABLE D-40: | SPORT BOAT COUNTS AND | WEATHER DURING OVERFLIGHTS, | STATISTICAL AREAS 28 AND 29, APRIL 1981 |
|-------------|-----------------------|-----------------------------|---|
| | | | |

| SPORT BOAT | | WEEK | DAYS | | WEEKENDS | | | | |
|-----------------------------|----------------|----------------|---------|------------------------|---------------|----------------|----------|------------------------|--|
| COUNTS | Apr. 9 Thu | Apr.24 Fri | Mean | Time PST | Apr.18 Sat | Apr.25 Sat | Mean . | Time PST | |
| Area 28 | | | | | | | | | |
| λ | 4. | 6 | 5 | 0900-1000 | 33 | 31 | 32 | 0900-1000 | |
| B C D | | | | | | | | | |
| D · | 9 | 4 | 7 | 0900-1000 | 49 | 29 | 39 | 0900-1000 | |
| E | 9 _1 _14 | <u>3</u> 13 | 2 14 | 0900-1000 | 10 92 | 29 15 75 | 13 | 0900-1000 | |
| Total | _ <u></u> | | _14 | | 92 | | 84 | | |
| Area 29 | | | | | | | | | |
| A | 7 | 2 | • 4 | 0900-1000 0900-1000 | 21 | 22 28 | 22 27 | 0900-1000 | |
| C | 0 1 | 2 0 | 1 | 0900-1000 | 27 | 28 | 27 | 0900-1000 0900-1000 | |
| B C D E F | | | | | | • | | | |
| F | <u>2</u> 10 | 0 | _1 | 0900-1000 | 0 | _4 | 2 | 0900-1000 | |
| Total | 10 | _4 | 7 | | 49 | 55 | 52 | , | |
| WEATHER | | | | | | | | ~ | |
| Pt. Atkinson | | | | | • | | | | |
| Sky | ovc | CLDY | | 0900 | CLR | PT CLDY | | 0900 | |
| Visibility Precipitation | 15 | 15 | | 0900 | 15 | 15 | | 0900 | |
| Wind . | E10 | SW6 | | 0900 | E2 | NN3 | | 0900 | |
| Sea | CHPY | LT CHP | | 0900 | RPLD | RPLD | | 0900 | |
| Sandheads | | | | • | | | | | |
| Sky | CLDY | PT CLDY | | 0900 | PT CLDY | PT CLDY | | 0900 | |
| Visibility Precipitation | . 15 | 15 | | 0900 | 15 | 15 | | 0900 | |
| Wind | SW16 | SW12 | | 0900 | NW8 | NW12 | | 0900 | |
| Sea | CHPY | CHPY | | 0900 | LT CHP | CEPY | | 0900 | |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

| PORT BOAT | | WEEK | | • | WEEKENDS | | | | |
|-----------------------|---------------|-------------------|----------|------------------------|---------------|---------------|------------|----------------------|--|
| OUNTS | May 12 Tue | May 27 Wed | Mean | Time PDT | May 10 Sun | May 30 Sat | Mean | Time PD: | |
| rea 13 | | | | | | | · · · | | |
| A | 33 | 4.7 | 40 | 1000-1100 | 93 | 60 | 76 | 1000-110 | |
| ~B. C | · 0 8 | .0 10 | · 0 9 | 1000-1100 1000-1100 | 0 3 | 1 22 | 1 13 | 1000-1100 | |
| D | 3 | 1 | 2 | 1000-1100 | . 0 | · 4 | 2 | 1000-110 | |
| E. F | 3 2 | 4 | · 3 1 | 1000-1100 1000-1100 | 10 | 20 | 15 1 | 1000-1100 | |
| G | 10 | 4 | 7 | 1000-1100 | 13 | 19 | 16 | 1000-1100 | |
| н | 0 | 3 | 2 | 1000-1100 | 6 | 9 | 7 | 1000-110 | |
| I J | 0 | 0 . | 0 | 1000-1100 | 0 | 0 | 0 | 1000-110 | |
| otal | 59 | 69 | 64 | | 125 | 136 | 131 | | |
| | <u> </u> | | | | | | | 1 | |
| rea 14 | | | | | | | | | |
| λ | 1. | 5 | 3 | 1100-1200 | 17 | . 11 | . 14 | 1100-1200 | |
| в | 15 | 7 | 11 | 1100-1200 1100-1200 | 19 9 | 16 12 | - 17 10 | 1100-120 | |
| C D | ĩ | 3 | 2 | 1100-1200 | 4 | 11 | 8 | 1100-120 | |
| E F | 0 | 4 | 2 | 1100-1200 | 0 | 1 | 1. | 1100-1200 | |
| F G | 8 | -4 | 6 0 | 1100-1200 1000-1100 | 22 | - 22 | 22 1 | 1100-120 1000-110 | |
| H | . 0 | 2 | 1 | 1000-1100 | 4 | 3 | 4 | 1000-110 | |
| I J | 22 | • | 12 | | 35 | | - | 1100-100 | |
| x | 10 | 11 | 10 | 1100-1200 1000-1100 | 35 | 16 1 | 25 | 1100-1200 | |
| L | | $\frac{11}{11}$. | <u></u> | 1000-1100 | 7 | 13 | 10 | 1000-110 | |
| otal | 65 | 45 | 55 | | 123 | 108 | 116 | | |
| TEATHER | - | | | | | | | | |
| ape Mudge | | | | · · | | | | | |
| iky | PT CLDY | PT CLDY | | 1000 | CLDY | CLDY | | 1000 | |
| isibility | 15+ | 10 | | 1000 | 15 | 15 | | 1000 | |
| Precipitation lind | CLM | NWLO | • | 1000 1000 | - NW2 | - | | 1000 1000 | |
| iea \ | SMTH | CEPY | | 1000 | RPLD | RPLD | | 1000 | |
| ape Lazo | | i . | | | | | | | |
| sky | PT CLDY | PT CLDY | | 1000 | CLDY | CLDY | | 1.000 | |
| /isibility | 20 | 20 | | 1000 | 20 | 15 | - | 1000 | |
| Precipitation ind | - NW5 | NWLO | | 1000 | NWIO | - NE8 | - | 1000 1000 | |
| Sea | RPLD | CHPY | | 1000 | RPLD | RPLD | | 1000 | |

SCURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

TABLE D-41: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, MAY 1981

TABLE D-42: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 15 AND 16, MAY 1981

| SPORT BOAT | | WEEK | | | | WEEK | | |
|--------------------------------------|----------------|---------------|---------|------------------------|---------------|-----------------|------------|--------------------|
| COUNTS | May 12 Tue | May 27 Wed | Mean | Time PDT ³ | May 10 Sun | May 30 Sat | Mean | Time P |
| Area 15 | | | | | | - | | |
| A B | 2 | 4 | 3 | 0900-1000 | 5 | 3 | 4 | 0900-10 |
| C D | 2 0 | 1 | 2 | 1000-1100 1000-1100 | 1 | 3 2 | 2 2 | 1000-11 1000-11 |
| otal | 4 | 5 | 5 | 1000-1100 | <u> </u> | 8 | 8 | 1000-11 |
| rea 16 | | | | | | | | |
| Д . В | 4 22 | 8 32 | 6 27 | 0900-1000 0900-1000 | 15 74 | 39 76 | 27 75 | 0900-10 0900-10 |
| B C D F G H I J | | 0 | | 1000-1100 | | 0 | | |
| E | l oe | Ő | 1 0 | 0900-1000 | l 0e | . 0 | 1. | 1000-11 0900-10 |
| . F | 3 | 2 | .2 | 0900-1000 | 3 | 3 | 3 | 0900-10 0900-10 |
| H . | • | - | - | | 0. | - | - | 0900-10 |
| I | 13 | 3 | 8 | 0900-1000 | 13 | 11 | 12 25 | 0900-1 |
| Otal | 13 10 53 | 20 | 15 | 0900-1000, | 23 | 11 27 156 | 25 | 0900-1 |
| | | _00 | 60 | | 129 | 126 | <u>143</u> | |
| TEATHER | | . • | | | | • | | |
| Frief Point | | | | | | | | |
| iky | PT CLDY | PT CLDY | | 0945 | PT CLDY | ovc | | 094 |
| Visibility Precipitation | 15 | 15 | - | 0945 0945 | 15 | 10 | | 094 |
| lind | E2 | W6 | | 0945 | • N4 | SW4 | | 094 |
| ea | CLM | RPLD | | 0945 | CLM | SMTH | | 094 |
| erry Island | · , | | | | | | | |
| 5ky | PT CLDY | PT CLDY | | 1000 | PT CLDY | CLDY | | 100 |
| /isibility Precipitation | 15 | 15+ | | 1000 1000 | 15+ | 15+ | | 100 |
| lind | SW4 | W8 | • | 1000 | SE4 | E4 | | 100 |
| jea - | RPLD | LT CHP | | 1000 | RPLD | RPLD | | 100 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver

a - Time of weather report is 0745 PDT for Grief Point on May 10 and May 12.

^e - Estimate.

TABLE D-43: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, MAY 1981

| - | | | | | | | • | | |
|----|---|--|---|---|--|---|---|---|--|
| | SPORT BOAT COUNTS | May 12 Tue | WEEK May 27 Wed | Mean Mean | Time PDT | May 10 Sun | MEEKE May 30 Sat | Mean . | Time PD1 |
| _ | Area 17 | | | | | | | | |
| | A B C D E F G Total | 1 3 4 11 11 27 0 57 | 1 12 6 3 8 7 0 <u>37</u> | 1 8 5 7 9 17 <u>0</u> 47 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 7 2 16 11 45 29 <u>2</u> 112 | 4 13 34 15 71 40 <u>4</u> <u>181</u> | 6 8 25 13 58 34 <u>3</u> 147 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 |
| • | Area 18 | | | | | | | | |
| | λ B C D Total | 12 4 1 <u>9</u> <u>26</u> | 18 1 8 <u>4</u> 31 | 15 3 <u>6</u> 29 | 0900-1000 0800-0900 0800-0900 0800-0900 | - 15 6 8 <u>18</u> 47 | 24 17 36 14 91 | 19 12 22 16 69 | 0900-1000 0800-0900 0800-0900 0800-0900 0800-0900 |
| | | | | | | | | | |
| | WEATHER Entrance | | | | | | - | | • |
| ار | Sky Visibility | CLDY 8. | PT CLDY 10 | | 1000 1000 | PT CLDY 10 | CLDY 15 | | 1000 |
| | Precipitation Wind Sea | ESE8 CHPY | WNW14 CHPY | | 1000 1000 1000 | NNW6 CHPY | ese6 RPLD | • | 1000 1000 1000 |
| _ | East Point | | | | | | | | |
| | Sky Visibility Precipitation Wind Sea | PT CLDY 15 - SW7 RPLD | CLDY 15 NW12 CHPY | | 1000 1000 1000 1000 1000 | CLDY 15 SW6 RPLD | CLDY 15 VL RN SH SW6 LT CHP | | 1000 1000 1000 1000 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver

TABLE D-44: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 198+, MAY 1981

.

| SPORT | PO) . | | WEEKDAY | | | WEEKENDS | | | | |
|--|-------------|-------------------------------|----------------------------------|---------------------|---|----------------------------------|-----------------------------------|------------------------|---|--|
| COUNTS | May | /12 Ma | | ean | Time PDT | May 10 Sun | | | ime PDT | |
| Area 1 | <u>.9</u> 2 | 18 | 41 | 30 0 | 900-1000 | 49 | 119 | 84 09 | 00-1000 | |
| Area 1 | 9B+ | | | | | | | | | |
| B C D F Total | | | 20 16 3 59 15 113 | 18 0 4 0 49 0 | 9900-1000 9900-1000 9900-1000 9900-1000 9900-1000 | 29 19 8 74 10 140 | 32 19 4 51 <u>175</u> | 19 09 6 09 71 09 | 00-1000 00-1000 00-1000 00-1000 00-1000 | |
| WEATHE Race R | - | • | • | | | | - | | | |
| Sky Visibi Precip Wind Sea | lity | CLDY PT 15 E4 PLD LT | 15 - W8 | , · | 1000 1000 1000 1000 1000 | CLDY 10 W12 CHPY | CLDY 10 W21 CHPY | | 1000 1000 1000 1000 1000 | |
| _ | | | | | | | - | | | |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

TABLE D-45: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, MAY 1981

Į

| SPORT BOAT | | WEEK | DAYS | | WEEKENDS | | | | | |
|--------------------|---------------------|---------------|----------|------------------------|----------------------|---------------|------------|----------------------|--|--|
| COUNTS | May 12 Tue | May 27 Wed | Mean | Time PDT | May 10 Sun | May 30 Sat | Mean | Time PDT | | |
| Area 28 | | | | | ~ | , | | ٠. | | |
| A B | 5 0 ^e | l8 Oe | 11 0 | 0800-0900 0800-0900 | 23 1 ^e | 30 1e | 27 1 | 0800-090 0800-090 | | |
| C D E | <u>6</u> 2 | 24 1 | 15 | 0800-0900 0800-0900 | 13 | 86 3 | 49 5 | 0800-090 0800-090 | | |
| Total | $\frac{2}{13}$ | 43 | 28 | - | 43 | 120 | 82 | | | |
| Area 29 | | | | | | | | | | |
| A B | 15 11 2 | 4 27 | 10 19 | 0800-0900 0800-0900 | 9 32 | 2 98 9 | 6 65 | 0800-090 0800-090 | | |
| CD | 2 | . 0 | 1 | 0800-0900 | 4 | 9 | 6 | 0800-090 | | |
| EF | 0 | | | 0800-0900 | 0 | 3 | 2 | 0800~090 | | |
| Total | | 31 | <u></u> | | _45 | 112 | <u>_79</u> | | | |
| WEATHER | | | | | | | | | | |
| Pt. Atkinson | | | | | • | | • | | | |
| Sky Visibility | CLDY 15 | PT CLDY 15 | | 1000 1000 | CLDY 15 | OVC 12 | | 1000 1000 | | |
| Precipitation Wind | ст.н | NW3 | | 1000 1000 | SE2 | E14 | | 1000 1000 | | |
| Sea | CLM SMTE | RPLD | | 1000, | RPLD | CHPY | a. | 1000 | | |
| Sandheads | | | | | . • | | | | | |
| Sky Visibility | PT CLDY 12 | CLDY 15 | | 1000 1000 | CLDY 12 | 0VC | | 1000 1000 | | |
| Precipitation | ÷ . | - | | · 1000 | - | LT RAIN | | 1000 | | |
| Wind Sea ' | SE6 RPLD | NW14 CHPY | | 1000 1000 | CLM RPLD | CLM SMTH | | 1000 | | |
| | NE 244 | yarı | | 1000 | KPLU | SATA | | 1000 | | |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver ^e - Estimate.

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 13 AND 14, JUNE 1981 TABLE D-46:

| | SPORT BOAT | | W I | EKDAY | S | | • | WE | EKENDS | | |
|----|---|--|---|--|---|--|---|--|---|---|---|
| [] | COUNTS | Jun: 8 Mon | Jun.15 Mon | Jun.24 Wed | Mean | Time PDT | Jun. 7 Sun | Jun.20 Sat | Jun.28 Sun | Mean | Time PDT |
| - | Area 13 | 1au | | | • | | | | | | |
| | A B C D E F G H I J Total | 32 31 5 3 0 15 1 90 90 | 28 0 29 0 4 0 14 2 0 0 77 | 134 10 23 31 6 0 16 0 0 220 | 65 4 28 12 4 0 15 1 0 0 129 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 84 1 64 7 10 1 19 6 0 <u>0</u> <u>192</u> | 141 10 36 41 23 0 33 5 0 0 289 | 206 5 39 35 11 0 20 5 0 0 321 | 144 5 46 28 15 0 24 5 0 0 267 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 |
| Ŀ | Area 14 | | | | | | | | | | |
| | A B C D E F G H I | 3 12 21 8 0 12 2 1 e | 2 0 5 0 2 0 1 | 2 9 40 0 23 5 1 | 2 7 21 4 0 13 2 1 | 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 | 18 27 24 16 0 27 10 6 | 3 7 5 1 7 24 6 | 6 15 5 NA NA 7 6 | 9 16 12 11 17 13 6 | 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 1100-1200 |
| | J K L Total | 10 34 <u>17</u> <u>120</u> | 1 0 0 11 | 16 38 <u>7</u> <u>141</u> | 9 24 <u>8</u> 91 | 1100-1200 1100-1200 1100-1200 | 20 55 <u>16</u> 219 | 20 19 <u>11</u> 110 | NA NA <u>NA</u> 139 | 20 37 14 156 | 1100-1200 1100-1200 1100-1200 |
| 4 | WEATEER | | • • | | • | | | | • | | |
| | Cape Mudge Sky Visibility Precipitation Wind Sea | OVC 15 CLM RPLD | OVC 15+ SE20 CHPY | PT CLDY 10 NW5 RPLD | | 1000 1000 1000 1000 1000 | OVC 10 NNB CHPY | CLDY 15 SE3 SMTH | OVC 15+ NW5 RPLD | | 1000 1000 1000 1000 1000 |
| | , | | | | | | | | | | |
| | Cape Lazo Sky Visibility Precipitation Wind Sea | CLDY 20 ESEL0 LT CHP | OVC 20 SEL5 CHPY | PT CLDY 20 NW10 RPLD | | 1000 1000 1000 1000 1000 | CLDY 15 N5 LT CHP | CLDY 15 W10 RPLD | OVC 20 SE5-10 LT CHP | | 1000 1000 1000 1000 1000 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver.

e - Estimate NA - Sub area not covered due to mechanical problems with float plane.

| | | | | | | | | × | | | |
|---|--|---|--|---|---|---|--|--|--|---|---|
| | SPORT BOAT | | | EEKDAY | | | | | EKENDS | | |
| | COUNTS | Jun. 8 Mon | Jun.15 Mon | Jun. 24 Wed | Mean | Time PDT | Jun. 7 Sun | Jun.20 Sat | Jun.28 Sun | Mean | Time PDT |
| _ | Area 15 | | | • | | | | | | | |
| | A B C D Total | 9e 3 12 | 2e 3 5 | 29 0e 6 0 35 | 13 0 4 <u>0</u> 17 | 1000-1100 1100-1200 1100-1200 1100-1200 | 7 1 4 1 13 | 13 1e 7 3 24 | 15 1e 22 2 4.0 | 12 1 11 2 26 | 1000-1100 1100-1200 1100-1200 1100-1200 |
| | Area 16 | | | | · • | | | | | | |
| 1 | A B C D E F G H I J Total | 11 26 0 e 1 e 8 0 0 7 8 62 | 10 24 1e 7 0 1 7 51 | 16 15 1e 7 7 0 34 9 9 | 13 22 0 1 1 7 2 0 14 8 68 | 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 | 23 41 0 1 7 3 0 22 <u>19</u> <u>117</u> | 34 50 2e 6 5 1 8 <u>19</u> 127 | 64 66 3e 18 1 0 36 <u>16</u> 213 | 40 53 2 2 10 3 0 22 18 152 | 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 |
| _ | WEATHER | • | | | | • . | | | | | |
| | Grief Point Sky Visibility Precipitation Wind Sea | CLDY 10 SE7 LT CHP | CLDY 10 SE18 LT CHP | CLR 15 W2 SMTH | | 0945 0945 0945 0945 0945 | OVC 10 SW3 SMTE | PT CLDY 10 SE8 RPLD | OVC 12 SE15 CHPY | | 0900 0900 0900 0900 0900 |
| | Merry Island | ſ | | | | | | | | | |
| | Sky Visibility Precipitation Wind Sea | CLDY 10 - SW4 RPLD | OVC 15+ SE23 CHPY | PT CLDY 12 SW4 RPLD | | 1000 1000 1000 1000 1000 | OVC 15 SW4 RPLD | CLDY 15+ NW3 RPLD | CLDY 12 SE16 CHPY | | 1000 1000 1000 1000 1000 |

TABLE D-47: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 15 AND 16, JUNE 1981

<u>SOURCE</u>: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver. ^a - Time of weather report is 0900 PDT for Grief Point on June 15.

e - Estimate.

.

| SPORT BOAT | | W | EEKDAY | | WEEKENDS | | | | | |
|--|------------------------------------|----------------------------------|---------------------------------------|------------------------------------|--|---|---------------------------------------|--|--|--|
| COUNTS | Jun. 8 Mon | Jun.15 Mon | Jun. 24 Wed | Mean | Time PDT | Jun. 7 Sun | Jun. 20 Sat | Jun. 28 Sun | Mean | Time_ |
| Area 17 | | | | | | | | | | |
| A B C D E F G Total | 1 6 8 14 16 | 1 6 4 2 5 e 28 | 2 12 13 17 18 14 88 | 1 5 9 11 13 8 55 | 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 1000-1100 | 9 2 51 32 65 58 15 232 | 1 0 21 38 23 15 108 | 13 6 49 18 18 15 15 168 | 8 36 34 40 33 15 169 | 1000-1 1000-1 1000-1 1000-1 1000-1 1000-1 1000-1 |
| Area 18 A B C D Total | 23 2 21 5 51 | 9 0 11 <u>4</u> 24 | 22 4 22 18 66 | 18 2 18 <u>9</u> 47 | 0900-1000 0900-1000 0900-1000 0900-1000 | 48 10 34 <u>25</u> <u>117</u> | 41 8 32 20 102 | 70 5 93 <u>18</u> <u>186</u> | 53 8 53 21 135 | 0900-1 0900-1 0900-1 0900-1 |
| WEATHER Entrance Sky Visibility Precipitation Wind Sea | CVC 8 SE6 RPLD • | OVC 10 SE20 MOD | PT CLDY 6-8 NNW4 RPLD | | 1000 1000 1000 1000 1000 | CLDY 10 - W4 RPLD | CLDY 15 | CLDY 6-8 SEL4 CHPY | | 100 100 100 100 100 |
| East Point Sky Visibility Precipitation Wind Sea | OVC 8 LT RAIN NE3 RPLD | CLDY 15 SELO CHPY | PT CLDY 15 NW6 RPLD | | 1000 1000 1000 1000 1000 | OVC 15 - CLM RPLD | CLDY 15 SW6 RPLD | CLDY 15 SW12 LT CHP | | 1000 1000 1000 1000 |

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouv

1

e - Estimate.

TABLE D-48:

D-51

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 17 AND 18, JUNE 1981

| | | | È E K D.A Y | | | WEEKENDS | | | | | |
|---|---------------------------------------|---|---------------------------|---------------------------|---|--|---------------------------------------|---|---|--|--|
| SPORT BOAT | Jun. 8 Mon | Jun.15 Mon | Jun. 24 Wed | Mean | Time PDT | Jun. 7 Sun | Jun. 20 Sat | <u>Jun. 28</u> Sun | , <u>Mean</u> | Time_PD | |
| Area 19A | 11 | 39 | 24 | 25 | 0900-1000 | 121 | 102 | 129 | 117 | . 0900-100 | |
| Area 19B+ | | | | | | | | | | | |
| B C D F F Total | 4 3 1 42 24 74 | 8 14 2 14 <u>83</u> <u>121</u> | 8 4 72 65 150 | 7 7 43 57 115 | 0900-1000 0900-1000 0900-1000 0900-1000 0900-1000 | 21 25 12 185 <u>166</u> 409 | 10 10 76 <u>97</u> 193 | 45 16 28 166 <u>181</u> <u>436</u> | 25 17 13 143 <u>148</u> <u>346</u> | 0900-100 0900-100 0900-100 0900-100 | |
| WEATHER | | | | | | | | | | | |
| Race, Rocks | | | | | | | | | | | |
| Sky Visibility Precipitation Wind Sea | OVC 8 LT RAIN NEL2 LT CHP | CLDY 12 W10 LT CHP | CLR 15 NE3 RPLD | | 0800 0800 0800 0800 0800 | OVC 15 W6 RPLD | CLDY 10 LT RN SE W15 CHPY | PT CLDY 10 SW12 CHPY | * . | 1000 1000 1000 1000 1000 | |

TABLE D-49: SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 19A AND 198+, JUNE 1981

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver

WEEKDAYS Jun.24 Wed SPORT BOAT WEEKENDS Jun.28 Sun Time PDT COUNTS Jun. 8 Jun.15 Mean Time PDT Jun. 7 Jun. 20 Mean Mon Sun Mon Sat Area 28 0800-0900 0800-0900 8 1 13 1e 9 1^е-0800-0900 0800-0900 28 3e 27 3e 48 3e 35 3 A 10 BCD 1 12 0 50 12 19 0800-0900 0800-0900 4 7 8 0800-0900 9 26 Ē 1 0 0 0800-0900 9 8 74 Total 14 21 22 19 49 92 72 Area 29 0800-0900 0800-0900 0800-0900 16 213 3 25 0 6 19 2 4 27 15 0800-0900 A B C D 4 3 29 1 42 172 0800-0900 0800-0900 81 5 222 14 6 9 EF 0 0 1 0 0800-0900 0 2 0800-0900 1 5 . 268 198 Total 46 28 28 34 . 90 <u>235</u> WEATHER Pt. Atkinson 0VC Sky 0VC 15 PT CLDY 12 1000 1000 1000 PT CLDY 15 ovc CLDY 1000 Visibility 15 15 1000 Precipitation ---1000 Wind NW2 E18 E2 E4 SW10 E12 1000 1000 Sea SMTH CHPY RPLD RPLD CHPY LT CHP 1000 Sandheads _ Sky Visibility OVC-CLDY CLDY 1000 ovc CLDY CLDY 1000 1000 1000 15 15 15 15 15 15 1000 Precipitation 1000 ----Wind E4 SE14 NW4 1000 SW12 E8 SE12 Sea RPLD LT CHP RPLD 1000 LT CHP CHPY 1000 LT CHP

SOURCE: Overflight records and Marine Weather Reports, Atmospheric Environment Service, Pacific Regional Office, Vancouver

^e - Estimate.

TABLE D-50:

D-53

SPORT BOAT COUNTS AND WEATHER DURING OVERFLIGHTS, STATISTICAL AREAS 28 AND 29, JUNE 1981

TABLE D-51: CODE TO WEATHER REPORTS

SKY CONDITION

CLRClear (no cloud) PT CLDYPartly Cloudy (not over 50% cloud cover) CLDYCloudy (over 50% cloud cover but under 100%) OVCOvercast (100% cloud cover) OBSCObscured (sky obscured by fog, smoke, or snow)

VISIBILITY - is the greatest distance at which objects near water level can be recognized.

- this distance is reported in miles
- visibility greater than 15 miles is reported as 15+

Obstructions to Vision:

FFog KSmoke H Haze

WEATHER

Precipitation Types:

- No precipitation RAIN..... Rain RN SH..... Rain Shower DRIZ..... Drizzle

Intensity of precipitation is denoted by the following symbols:

VL Very light LT Light-HVY..... Heavy

WIND DIRECTION AND SPEED

Direction - from which wind is blowing, to nearest of 8 true directions:

| N | North | s | South |
|----|-----------|-----|-----------|
| NE | Northeast | SW | Southwest |
| Ε | East | . W | West |
| SE | Southeast | NW | Northwest |

Speed - in knots, e.g., NW12 = Northwest 12 knots.

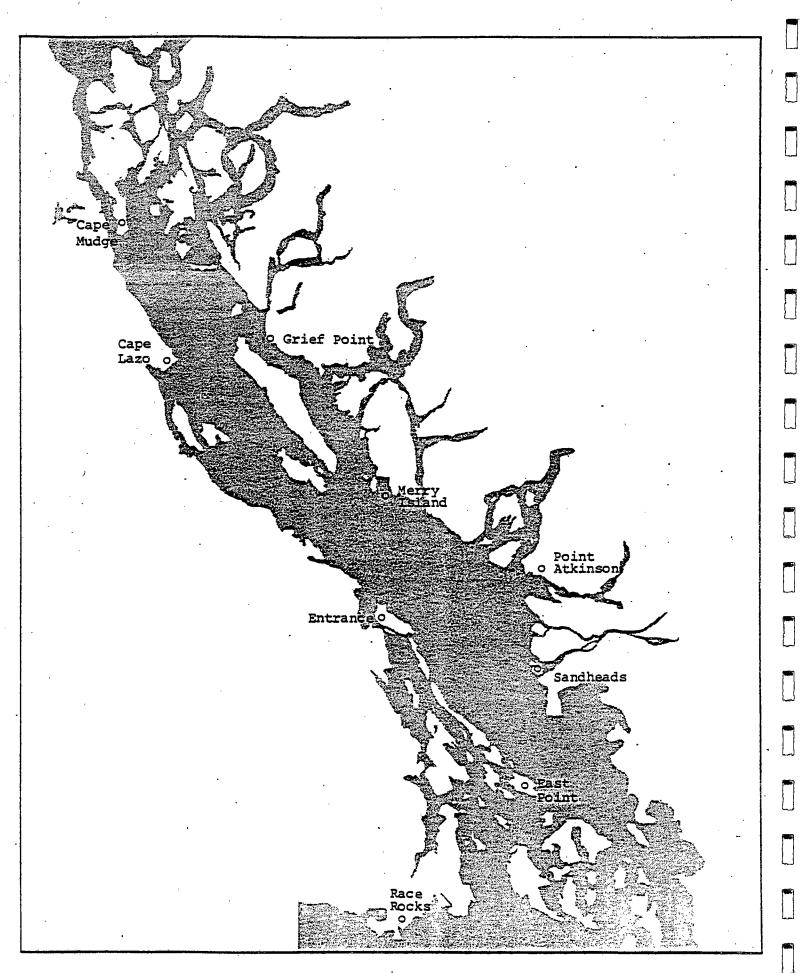
SEA CONDITION - as shown by "short waves on surface" which result from

| SMTH | Smooth |
|---------|--------------|
| LT RPL | Light Ripple |
| RPLD | Rippled |
| LT CHP | |
| СНРУ | Choppy |
| HVY CHP | |
| MOD | |
| ROUGH | Rough Seas |
| UNKN | |

APPENDIX E

WEATHER INFORMATION FOR SELECTED GEORGIA STRAIT REPORTING STATIONS

Monthly temperature and precipitation for overflight days are presented for comparison with corresponding monthly averages at selected stations in the study area.



E-2

TABLE E-1 : COMPARISON OF TEMPERATURE AND PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, JULY 1980

| | | | 94 1 | | WEEKDAY | , | | FLIG | WEEI | | | | <u> </u> | Monthly | |
|---|-------------------------|-------------------------------------|---------------------------|---------|---------|-------------|---------------|---------|-------------|-------------|---------|---------------|-------------|-------------|-----|
| | | | | Jul. 7 | Jul.23 | Jul.31 | Jul. 5 | Jul.12 | Jul.13 | Jul.19 | Jul.27 | Aug. 2 | Average | Average | |
| | Vancouver Airport: | MDT ^a DP ^a | (^O C) (mm) | 15.7 | 17.6 | 18.8 | 14.5 0.4 | 16.1 | 15.0 0.8 | 15.5 5.1 | 18.9 | 16.9 0.4 | 16.6 0.7 | 16.6 2.2 | |
| - | Victoria Airport: | | (^O C) (mm) | 15.9 | 16.9 | 16.3 | 14.0 trace | 13.5 | 12.9 1.0 | 14.7 3.4 | 17.2 | 16.8 trace | 15.4 | 15.6 0.7 | |
| | Victoria (Phyllis St.); | MDT DP | (^O C) (mm) | 16.0 | 17.3 | 16.3 | 13.0 | 13.5 | 13.8 0.7 | 13.3 3.3 | 16.3 | .15.3 | 15.0 | 15.1 0.5 | |
| , | Saturna Islandı | MDT DP | (^O C) (mm) | 16.8 | 16.5 | 17.0 | 13.5 | 14.3 | 13.3 0.8 | 14.8 1.6 | 19.0 | 15.3 | 15.6 0.3 | 15.9 0.8 | |
| | Powell River: | | (^O C) (mm) | 17.0 | 19.5 | 17.5 | 15.0 25.0 | 17.8 | 14.5 0.2 | 18.0 | 20.3 | 16.8 trace | 17.4 2.8 | 17.7 3.2 | |
| | Nanaimo Airport: | | (^O C) (mm) | 16.1 | 18.8 | 18.7 | 13.7 2.5 | 15.4 | 14.7 3.2 | 16.7 3.4 | 20.7 | 17.7 trace | 16.9 1.0 | 17.1 1.1 | 王-3 |
| | Merry Island: | | (^O C) (mm) | 16.9 | 19.5 | 18.3 | 14.5 17.7 | 16.7 | 16.1 2.3 | 16.9 3.4 | 20.4 | 16.5 1.2 | 17.3 2.7 | 17.4 2.5 | |
| | Gibson's (Gower Pt.): | | (^O C) (mm) | 15.8 | 18.5 | NA — | 13.8 0.8 | 15.8 | 15.0 | 15.0 3.4 | 19.0 | 16:3 | 16.2 1.0 | 16.3 2.8 | |
| | Campbell River Airport: | | (^O C) (mm) | 15.5 | 17.9 | 16.3 0.2 | 12.7 1.0 | 14.7 | 13.5 2.4 | 15.5 3.6 | 18.9 | 16.3 0.2 | 15.7 0.8 | 15.7 2.0 | |
| | Comox Airport: | MDT DP | (^O C) (mm) | 17.1 | 18.5 | 16.1 | 13.8 4.4 | 16.3 | 15.4 1.0 | 16.9 5.2 | 20.5 | 16.5 0.6 | 16.8 1.2 | 17.0 | |
| | Sooke: | | (^O C) (mm) | NA - | NA - | NA 0.7 | NA - | NA - | NA - | NA 5.6 | NA - | NA | NA 0.7 | NA 0.9 | |
| | | | | | | | | | | | | | | | |

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

日 一

ω.

| | • | OVERFLIGHT DAYS WEEKDAY WEEKEND | | | | | | | | | |
|-------------------------|--|------------------------------------|-------------|---------------|---------------|---------|--------------|-------------|-----------|-------------|-------------|
| | • | | WEEKDAY | | | | | Monthly | | | |
| | | Aug. 3 | Aug. 20 | Aug. 25 | Aug. 3 | Aug.10 | Aug.17 | Aug.23 | Aug. 24 | Average | Average |
| 'ancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 19.4 | 15.5 | 16.8 | 15.9 trace | 20.0 | 15.9 12.2 | 16.7 | 16.2 | 17.1 | 16.4 1.7 |
| 'ictoria Airport: | MDT (^O C) DP (mm) | 19.7 | 13.7 | 14.1 | 14.9 | 20.1 | 16.4 9.9 | 15.3 | 15.1 | 16.2 1.2 | 15.3 0.4 |
| 'ictoria (Phyllis St.): | MDT (^O C) DP (mm) | 17.8 | 13.8 | 13.3 | 15.5 | 17.3 | 14.3 9.6 | 14.8 | 15.0 | 15.2 1.2 | 14.7 0.7 |
| aturna Island: | MDT (^O C) DP (mm) | 21.0 | 15.8 | 15.3 trace | 15.0 | 19.3 | 14.8 11.2 | 16.3 | 16.0 | 16.7 1.4 | 15.5 0.9 |
| 'owell River: | MDT (^O C) DP (mm) | 20.5 | 15.0 | 15.3 2.0 | 16.3 | 21.5 | 16.5 12.2 | 16.0 | 16.3 | 17.2 1.8 | 17.2 2.1 |
| lanaimo Airport: | MDT (^O C) DP (mm) | 21.9 | 16.4 | 15.6 | 15.5 | 21.1 | 18.2 12.8 | 16.0 0.4 | 16.5 - | 17.7 1.7 | 16.9 0.8 |
| erry Island: | MDT (^O C) DP (mm) | 20.0 - | 15.9 · - | 15.6 0.4 | 16.6 | 20.3 | 16.1 8.9 | 17.0 | 15.5 | 17.1 1.2 | 17.0 0.9 |
| ibson's (Gower Pt.): | MDT (^O C) DP (mm) | 19.3 | 14.5 | 15.5 3.0 | 16.3 | 20.3 | 15.3 15.0 | 16.3 | 14.5 | 16.5 2.3 | 16.0 1.7 |
| Campbell River Airport: | MDT (^O C) DP (mm) | 20.2 | 13.9 | 12.3 1.4 | 15.7 | 20.9 | 17.0 5.2 | 16.1 0.2 | 14.1 | 16.3 0.9 | 15.5 1.7 |
| Comox Airport: | MDT (^O C) DP (mm) | 20.1 | 14.8 | 13.9 trace | 16.2 | 20.2 | 17.8 6.8 | 16.2 | 15.6 | 16.9 0.9 | 16.6 0.9 |
| looke: | MDT (^O C) DP (mm) | NA - | NA - | NA 1.0 | NA - | NA - | NA 7.6 | ' NA - | NA ~ | NA 1.1 | NA 0.5 |

TABLE E-2: COMPARISON OF TEMPERATURE AND PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, AUGUST 1980

ource: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

MDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

E-4

COMPARISON OF TEMPERATURE AND PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, SEPTEMBER 1980 TABLE E-3:

| | | OVERFLIGHT DAYS | | | | | | | | |
|-------------------------|--|-----------------|--------------------|---------|--------------|---------------|--------------------|---------------|-------------|--------------------|
| | | Sep. 8 | WEEKDAYS Sep.17 | Sep. 25 | Sep. 6 | Sep.13 | WEEKENDS Sep.14 | Sep. 21 | Average | Monthly Average |
| Vancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 12.9 | 12.6 | 11.0 | 15.0 9.0 | 14.5 0.8 | 16.4 | 12.8 0.4 | 13.6 1.5 | 13.9 3.3 |
| Victoria Airport: | MDT (^O C) DP (mm) | 14.9 | 11.6 | 12.9 | 12.3 6.0 | 14.5 0.2 | 18.3 | 13.6 trace | 14.0 0.9 | 13.4 1.2 |
| Victoria (Phyllis St.): | MDT (^O C) DP (mm) | 13.8 - | 11.3 | 11.3 | 12.5 3.8 | 13.5 0.6 | 16.8 | 13.5 1.3 | 13.2 0.8 | 13.1 1.5 |
| Saturna Island; | MDT (^O C) DP (mm) | 14.3 | 12.8 | 13.0 | 13.3 | 14.0 0.6 | 15.3 | 13.5 1.4 | 13.7 0.9 | 13.9 1.2 |
| Powell River: | MDT (^O C) DP (mm) | 16.0 | 16.0 | 13.5 | 18.0 6.5 | 15.5 | 17.5 | 12.5 3.0 | 15.6 1.4 | 15.1 2.3 |
| Nanaimo Airport: | MDT (^O C) DP (mm) | 14.5 | 13.3 trace | 12.3 | 13.9 3.2 | 16.0 0.9 | 17.4 | 13.0 | 14.3 0.6 | 14.1 1.4 |
| Merry Island: | MDT (^O C) DP (mm) | 14.4 | 14.8 | 12.8 | 15.1 5.5 | 15.3 trace | 16.7 | 13.5 1.1 | 14.7 0.9 | 14.5 2.6 |
| Gibson's (Gower Pt.): | MDT (^O C) DP (mm) | 13.5 | 13.0 | 12.0 | 15.3 10.8 | 13.5 | 13.0 | 16.3 3.6 | 13.8 2.1 | 13.6 3.2 |
| Campbell River Airport: | MDT (^O C) DP (mm) | 12.4 | 12.9 | 11.8 | 13.5 3.1 | 15.3 | 15.9 | 8.8 6.4 | 12.9 1.4 | 12.6 2.7 |
| Comox Airport: | MDT (^O C) DP (mm) | 14.1 | 14.7 | 12.7 | 14.7 5.4 | 16.3 | 18.3 | 12.4 1.0 | 14.7 0.9 | 14.0 1.8 |
| Sooke: | MDT (^O C) DP (mm) | NA - | NA - | NA - | NA 10.0 | NA _ | NA _ | NA 4.1 | NA 2.0 | NA 2.8 |

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

២ -ហ

| • | | | | | | | |
|-------------------------|--|-------------|--------------|----------------|----------------|-------------|--------------------|
| × × | | Oct. 8 | Oct.23 | WEEK Oct.11 | ENDS Oct.26 | Average | Monthly Average |
| Vancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 13.2 | 7.2 | 12.1 | 10.2 | 10.7 0.5 | 10.8 1.9 |
| Victoria Airport: | MDT (^o C) DP (mm) | 12.8 | 8.2 | 10.4 0.4 | 8.7 | 10.0 | 10.3 |
| Victoria (Phyllis St.); | MDT (^O C) DP (mm) | 14.0 | 10.5 | 11.5 3.0 | 10.0 | 11.5 0.8 | 11.1 0.4 |
| Saturna Island: | MDT (^O C) DP (mm) | 14.3 | 11.0 | 12.5 2.2 | 10.0 | 12.0 | 11.7 0.7 |
| Powell River: | MDT (^O C) DP (mm) | 15.0 | 7.0 | 14.5 2.4 | 11.5 | 12.0 0.6 | 12.2 2.1 |
| Nanaimo Airport: | MDT (^O C) DP (mm) | 13.6 | 6.8 | 11.5 3.0 | 8.0 | 10.0 | 10.3 1.4 |
| Merry Island: | MDT (^O C) DP (mm) | 13.1 | 8.9 | 12.6 3.6 | 10.0 | 11.2 0.9 | 11.5 1.5 |
| Gibson's (Gower Pt.): | MDT (^O C) DP (mm) | 13.8 | 8.0 | 11.8 7.4 | 9.5 | 10.8 1.9 | 10.9 2.6 |
| Campbell River Airport: | MDT (^O C) DP (mm) | 12.0 0.9 | 3.8 trace | 8.9 3.5 | 6.0 2.4 | 7.7 1.7 | 8.2 3.3 |
| Comox Airport: | MDT (^O C) DP (mm) | 12.7 | 6.0 | 9.9 2.2 | 7.9 | 9.1 1.0 | 10.0 1.9 |
| Sooke: | MDT (^O C) DP (mm) | NA | NA | NA 5.3 | . NA - | NA 1.3 | NA 0.9 |

TABLE E-4 : COMPARISON OF TEMPERATURE AND PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, OCTOBER 1980

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

비 Ġ,

| | | • | | • | · · | | | | |
|-------------------------|--|-------------------|-------------------|------------|--------------------|-------------------|-------------------|--------------|--------------------|
| | | | | • | , . | •, | | : | |
| | | NOVEMBE | R OVERFLIG | HT DAYS | November | DECEMB | ER OVERFLIG | HT DAYS | December |
| | | Weekday Nov.19 | Weekend Nov.22 | Average | Monthly Average | Weekday Dec.12 | Weekend Dec:14 | Average | Monthly Average |
| Vancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 8.9 · trace | 2.7 | 5.8 | 7.0 10.4 | 6.2 | 8.7 8.0 | 7.5 4.0 | 4.9 7.5 |
| Victoria Airport: | MDT (^O C) DP (mm) | 7.4 | 3.4 | 5.4 | 6.8 8.2 | 5.0 | 8.6 4.7 | 6.8 2.4 | 5.6 6.6 |
| Victoria (Phyllis St.): | MDT (^O C) DP (mm) | 9.5 | 6.0 | 7.8 0.5 | 8.2 | 6.5 - | 8.8 2.2 | 7.1 1.1 | 6.4 5.0 |
| Saturna Island: | MDT (^O C) DP (mm) | 9.0 2.6 | 4.3 | 6.7 1.3 | 8.7 6.3 | 6.5 | 8.3 | 7.4 | 6.3 3.7 |
| Powell River: | MDT (^O C) DP (mm) | 7.5 1.9 | 5.0 0.6 | 6.3 1.3 | 7.9 8.2 | 7.0 | 8.5 7.0 | 7.8 3.5 | 5.9 |
| Nanaimo Airport: | MDT (^O C) DP (mm) | 5.8 0.8 | 2.2 | 4.0 | 6.1 9.7 | 3.9 | 8.7 7.0 | 6.3 3.5 | 4.6 |
| Merry Island: | MDT (^O C) DP (mm) | 7.8 0.2 | 5.0 | 6.4 0.1 | 8.1 9.2 | 6.3 | 9.1 4.0 | 7.7 | 5.9 6.8 |
| Gibson's (Gower Pt.); | MDT (^O C) DP (mm) | 7.0 3.4 | 3.8 | 5.4 1.7 | 6.8 9.9 | 5.3 trace | 7.5 3.0 | 6.4 | 4.5 |
| Campbell River Airport; | MDT (^O C) DP (mm) | 3.7 0.5 | -0.2 1.4 | 1.8 | 5.0 6.8 | -0.6 | 7.2 13.2 | 3.3 | 2.2 |
| Comox Airport: | MDT (^O C) DP (mm) | 5.7 trace | 2.8 | 4.3 | 6.7 8.2 | 4.1 | 9.1 7.2 | 6.6 3.6 | 4.4 |
| Sooke: | MDT (^O C) DP (mm) | NA 1.0 | NA | NA 0.5 | NA 11.0 | NA | NA 22.2 | - NA 11.1 | NA 10.1 |

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres ·日 1 7

| TABLE Ę-6: | COMPARISON OF TEMPERATURE AND PERCIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, JANUARY/ | |
|------------|--|--|
| | FEBRUARY, 1981 | |

| | , | | | | | | | |
|-------------------------|--|---------------------------------|------------|--------------------|--------------------|------------------|-------------|--------------------|
| | | JANUARY OVERFLIG | HT DAYS | January | | RY OVERFLIG | HT DAYS | February |
| | Weel Jai | day <u>Weekend</u> 26 Jan 10 | Average | Monthly Average | Weekday: Feb 18 | Weekend Feb 8 | Average | Monthly Average |
| Vancouver Airport: | MDT ^a (^O C) 4 DP ^a (mm) 6 | | 5.4 3.1 | 5.5 2.3 | 7.2 9.8 | 1.6 | 4.4 4.9 | 5.2 5.6 |
| Victoria Airport: | MDT (^O C) 4. DP (num) 5. | .1 6.3 .9 | 5.2 | 5.8 1.5 | 7.6 13.6 ` | 3.5 | 5.6 6.8 | 5.3 5.5 |
| Victoria (Phyllis St.): | | .2 7.5 | 5.8 2.1 | 7.2 0.7 | 8.8 14.5 | 3.8 · | 6.3 7.3 | 6.6 4.6 |
| Saturna Island; | | .3 7.5 | 6.4 0.2 | 6.7 1.0 | 9.0 11.8 | 4.3 | 6.7 5.9 | 6.6 3.5 |
| Powell River: | | .0 . 8.0 | 6.5 1.5 | 6.6 3.3 | 8.0 18.0 | 3.8 | 5.9 9.0 | 5.8 3.5 |
| Nanaimo Airport; | MDT (^O C) 4 DP (mm) 8 | | 5.1 4.2 | 4.7 4.0 | 6.3 13.4 | 2.9 | 4.6 | 4.7 5.6 |
| Merry Island: | MDT (^O C) 4 DP (mm) 10 | .0 6.6 | 5.3 5.1 | 6.1 2.2 | 8.2 11.0 | 4.5 | 6.4 5.5 | 5.9 3.0 |
| Gibson's (Gower Point): | MDT (^O C) 3. DP (mm) 9. | • | 4.9 4.7 | 5.5 2.7 | 7.0 | 3.3 | 5.2 9.4 | 5.1 4.6 |
| Campbell River Airport: | | .7 - 4.8 ace | 3.7 | 3.8 4.4 | 4.0 37.2 | 0.5 1.6 | 2.3 18.6 | 3.6 4.9 |
| Comox Airport: | MDT (^O C) 4. DP (mm) 3. | .1 5.3 .4 | 4.7 1.7 | 5.1 4.0 | 5.0 17.2 | 2.8 | 3.9 8.6 | 4.9 4.7 |
| Sooke; | MDT (^O C) NI DP (mm) | NA NA | NA . | NA 2.2 | NA 16.7 | NA | NA 8.4 | NA 7.0 |

Source: Climatological records from Atmospheris Environment Service, Pacific Regional Office, Vancouver.

_/

^aMDT = mean daily temperature in degrees centigrade. DP = daily precipitation in millimeters.

| TABLE E-7: | COMPARISON OF | TEMPERATURE AND | PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, MARCH 1981 | |
|------------|---------------|-----------------|--|--|
| | | | | |

Campbell River Airport:

Comox Airport:

Sooke:

| • | • . • • | * . ^{* *} | OVBR | FLIGHT | DAYS | | |
|------------------------|--|--------------------|--------------|--------------|-------------|------------|------------|
| | | WEEK | DAYS | WEEK | ENDS | | Monthly |
| | | Mar.10 | Mar.25 | Mar.14 | Mar.22 | Average | Average |
| Vancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 7.9 | 11.2 14.2 | 9.6 | 10.3 3.7 | 9.8 4.5 | 7.8 4.1 |
| Victoria Airport: | MDT (^O C) DP (mm) | 7.4 | 10.3 9.8 | 7.3 | 9.4 1.2 | 8.6 2.8 | 7.6 1.7 |
| Victoria (Phyllis St.) | : MDT (^O C) DP (mm) | 8.3 | 10.5 | 8.5 | 9.8 2.3 | 9.3 0.6 | 8.8 0.9 |
| Saturna Island: | MDT (^O C) DP (mm) | 8.8 | 10.3 | 9.8 0.8 | 8.0 | 9.2 0.8 | 8.7 |
| Powell River: | MDT (^O C) DP (mm) | 7.0 1.5 | 9.5 | 11.5 | 8.5 | 9.1 1.7 | 8.2 3.6 |
| Nanaimo Airport: | MDT (^o C) DP (mm) | 6.7 | 11.0 | 8.1 | 8.6 1.2 | 8.6 0.3 | 7.3 2.0 |
| Merry Island: | MDT (^O C) DP (mm) | 8.6 | 10.4 | 9.7 trace | 9.1 3.4 | 9.5 3.3 | 8,4 2.7 |
| Gibson's (Gower Pt.): | MDT (^o c) | 8.3 | 10.8 | 8.8 | 9.0 | 9.2 | 7.9 |

7.8

9.4 .

4.2

NÄ

1.6

~6.1

2.0

8.0

trace

NA

3.8

4.7

7.0

9.1

2.0

NA

3.6

1.4

6.0

2.5

8.2

1.6

NA

0.9

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

٠.

5.2 1.1

6.4

0.3

NA

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

DP (mm)

MDT (^OC)

MDT (°C)

MDT (°C)

DP (mm)

DP (mm)

DP (mm)

E-9

4.4

5.1

2.6

6.8

2.2

NA

3.2

| | | | OVÉR | | DAYS | | |
|-------------------------|--|---------------|----------------|---------|------------|--------------|--------------------|
| | | Apr. 9 | DAYS Apr.24 | WEEK | Apr.25 | Average | Monthly Average |
| Vancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 7.9 trace | 10.4 trace | 8.7 | 8.0 | 8.8 | 8.7 4.8 |
| Victoria Airport: | MDT (^O C) DP (mm) | 7.3 0.2 | 8.6 3.0 | 10.1 | 7.8 | 8.5 0.8 | 8.4 2.2 |
| Victoria (Phyllis St.): | MDT (^O C) DP (mm) | NA 18.6 | 9.3 NA | NA _ | 7.3 | 8.3 6.2 | 8.7 2.0 |
| Saturna Island: | MDT (^O C) DP (mm) | 8.0 0.6 | 9.0 | 10.3 | 7.8 | 8.8 0.2 | 9.3 2.0 |
| Powell River: | MDT (^O C) DP (mm) | 7.5 1.6 | 9.5 | 10.0 | 9.5 | 9.1 0.4 | 8.7 2.1 |
| Nanaimo Airport: | MDT (^O C) DP (mm) | 7.6 | 9.0 | 9.9 | 7.5 | . 8.5 | 8.3 1.8 |
| Merry Island: | MDT (^O C) DP (mm) | 8.4 trace | 10.5 trace | 9.8 | 8.7 | 9.4 | 8.9 3.2 |
| Gibson's (Gower Pt.): | MDT (^O C) DP (mm) | 7.0 2.3 | 10.0 | 9.5 | 8.5 | 8.8 0.6 | 8.7 4.8 |
| Campbell River Airport: | MDT (^O C) DP (mm) | 5.8 10.8 | 5.3 | 7.3 | 4.9 | 5.8 3.2 | 6.8 2.9 |
| Comox Airport: | MDT (^O C) DP (mm) | ll.6 trace | 8.8 0.8 | 8.2 | 6.8 | 8.9 0.2 | 8.2 2.5 |
| Sooke: | MDT (^O C) DP (mm) | NA 12.7 | ŃA - | NA _ | NA | NA 3.2 | NA 5.7 |

TABLE E-8: COMPARISON OF TEMPERATURE AND PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, APRIL 1981

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

E-10

| TABLE E-9: | COMPARISON OF 7 | TEMPERATURE AND | PRECIPITATION ON | I OVERFLIGHT DAYS | 5 WITH CORRESPONDI | NG MONTHLY AVERAGES | 6. MAY 1981 |
|------------|-----------------|------------------------|------------------|-------------------|---------------------------|---------------------|-------------|
|------------|-----------------|------------------------|------------------|-------------------|---------------------------|---------------------|-------------|

1

| • • | | | | | DAYS . | | |
|-------------------------|--|-------------|---------|---------------|----------------|---------------|--------------------|
| | | May 12 | May 27 | May 10 | ENDS May 30 | Average | Monthly Average |
| Vancouver Airport: | MDT ^a (^O C) DP ^a (mm) | 11.6 | 13.8 | 10.7 | 16.2 0.4 | 13.1 | 12.5 |
| Victoria Airport: | MDT (^O C) DP (mm) | 10.9 | 11.6 | 11.9 trace | 15.0 | 12.4 | 11.4 |
| Victoria (Phyllis St.): | MDT (^O C) DP (mm) | 11.3 0.3 | 11.8 | 11.8 0.6 | 14.8 | 12.4 | 11.7 |
| Saturna Island: | MDT (^O C) DP (mm) | 12.0 | 12.5 | 10.8 | 14.5 | 12.5 | 11.9 1.8 |
| Powell River: | MDT (^O C) DP (mm) | 11.0 | 14.5 | 11.0 1.5 | 16.3 2.8 | 13.2 . 1.1 | 12.4 [T] 3.9 [|
| Nanaimo Airport: | MDT (^O C) DP (mm) | 11.4 | 12.7 | 10.7 1.8 | 15.1 0.4 | 12.5 | 11.8 H 2.2 |
| Merry Island: | MDT (^O C) DP (mm) | 12.4 | 14.4 | 11.4 4.5 | 16.5 1.0 | 13.7 | 12.7 3.5 |
| Gibson's (Gower Pt.): | MDT (^O C) DP (mm) | 11.8 4.0 | 13.3 | 11.0 16.6 | 15.8 trace | 13.0 5.2 | 12.1 5.0 |
| Campbell River Airport: | MDT (^O C) DP (mm) | 9.0 1.2 | 12.1 | 8.2 | 11.6 7.9 | 10.2 3.5 | 10.8 4.1 |
| Comox Airport: | MDT (^O C) DP (mm) | 11.8 | 12.5 | 9.3 4.8 | 14.6 3.4 | 9.2 2.1 | 12.1 3.1 |
| Sooke: | MDT (^O C) DP (mm) | NA ~ | NA - | NA 1.0 | NA - | NA - 0.3 | NA 1.5 |

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

^aMDT = mean daily temperature in degrees centigrade DP = daily precipitation in millimetres

| | | | | VERFL | IGĤT | DAY | 5 | | |
|-------------------------|------------------------------------|-------|---------|--------|-------|---------|--------|---------|-----------------|
| , | | Tup 0 | WEEKDAY | Jun 24 | Jun 7 | WEEKEND | Tup 28 | Average | Monthly Average |
| | | Jun 8 | Jun 15 | Jun 24 | Jun / | Jun 20 | Jun 28 | Average | Monthly Average |
| /ancouver Airport: | MDT ^a (^O C) | 12.5 | 13.1 | 14.8 | 12.2 | 14.2 | 14.8 | 13.6 | 13.9 |
| | DP ^a (mm) | 12.3 | 6.8 | • - | 1.0 | 0.8 | 1.0 | 3.7 | 4.5 |
| /ictoria Airport: | MDT (^O C) | 10.6 | 10.5 | 13.8 | 11.3 | 14.2 | 12.5 | 12.2 | 13.1 |
| | DP (mm) | 12.4 | 4.2 | | | · · | 0.2 | 2.8 | 2,3 |
| /ictoria (Phyllis St.): | MDT (^o c) | 10.3 | 11.8 | 12.8 | 11.5 | 13.8 | 13.0 | 12.2 | 13.1 |
| | DP (mm) | 17.0 | 3.4 | | trace | 0.2 | trace | 3.4 | 1.5 |
| Jaturna Island: | MDT (^o C) | 11.0 | 12.3 | 16.8 | 11.5 | 12.5 | 15.0 | 13.2 | 13.6 |
| • | DP (mm) | 10.4 | 2.2 | | 0.4 | 1.4 | 0.6 | 2.5 | 2.0 |
| Yowell River: | MDT (^o c) | 14.3 | 12.5 | 16.5 | 14.0 | 14.0 | 15.0 | 14.4 | 14.4 |
| | DP (mm) | 2.0 | 5.9 | | 1.0 | | 6.4 | 2.6 | 2.3 |
| Janaimo Airport: | MDT (^o c) | 9.7 | 11.7 | 15.4 | 11.3 | 13.2 | 13.4 | 12.5 | 13.2 |
| - | DP (mm) | 2.0 | 2.0 | 0.4 | 1.4 | ÷- | 1.1 | 1.2 | 2.1 |
| ferry Island: | MDT (^o c) | 13.8 | 12.8 | 15,0 | 12.8 | 13.7 | 15.2 | 13.9 | 14.0 |
| - | DP (mm) | 0.2 | 9.0 | | trace | 0.2 | 6.8 | 2.7 | 2.7 |
| libson's (Gower Point): | MDT (^o c) | 12.5 | 12.5 | 14.5 | 12.3 | 13.3 | 15.0 | 13.4 | 13.3 |
| | DP (mm) | 3.2 | 12.1 | | | ~- | 17.1 | 5.4 | 4.2 |
| Campbell River Airport: | MDT (^o c) | 12.1 | 11.6 | 12.8 | 11.6 | 11.5 | 9.4 | 11.5 | 12.2 |
| | .DP (mm) | 5.3 | 1.2 | | 2.8 | 2.8 | 6.2 | 3.1 | 2.6 |
| Comox Airport: | MDT (^o c) | 13,3 | 13.3 | 15.0 | 12.2 | 14.0 | 12.5 | 13.4 | 13.5 |
| | DP (mm) | trace | 1.4 | | trace | | 7.6 | 1.5 | 1.3 |
| Sooke: | MDT (^o c) | NA | NA | NA | NA | NA | NA | NA | NA |
| | DP (mm) | 17.1 | 11.1 | | | 1.7 | 1.5 | 5.3 | 3.0 |

TABLE E-10: COMPARISON OF TEMPERATURE AND PRECIPITATION ON OVERFLIGHT DAYS WITH CORRESPONDING MONTHLY AVERAGES, JUNE 1981

Source: Climatological records from Atmospheric Environment Service, Pacific Regional Office, Vancouver.

4DT = mean daily temperature in degrees centigrade.

DP = daily precipitation in millimeters.

E-12

| | 1 |
|--|---|
| | |

| • • | | | | | | | | | | | | |
|----------------------------------|------|------|------|------|-----|-----|-----|-----|----------|-----|------|------|
| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| incouver Airport | 17.4 | 17.1 | 14.2 | 10.1 | 6.1 | 3.8 | 2.4 | 4.4 | , 5.8 | 8.9 | 12.4 | 15.3 |
| ictoria Airport | 16.4 | 16.1 | 13.9 | 10.0 | 6.2 | 4.2 | 2.9 | 4.7 | 5.8 | 8.6 | 11.9 | 14.5 |
| ictoria (Phyllis St.) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| iturna Island | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| owell River | 16.8 | 16.3 | 13.6 | 9.2 | 5.1 | 3.2 | 1.9 | 3.6 | 4.4 | 7.3 | 11.4 | 14.7 |
| anaimo Airport | 17.1 | 16.7 | 13.9 | 9.2 | 5.1 | 2.9 | 1.5 | 3.5 | 4.7 | 7.8 | 11.7 | 14.8 |
| erry Island | 17.9 | 17.7 | 14.8 | 10.8 | 7.3 | 5.2 | 4.1 | 5.3 | 6.4 | 9.1 | 12.9 | 15.6 |
| ibson's (Gower Point) | 17.1 | 16.9 | 14.1 | 9.9 | 5.6 | 3.4 | 2.1 | 3.8 | 5.2 | 8.0 | 12.1 | 14.9 |
| <pre>ampbell River Airprt.</pre> | 16.6 | 15.9 | 12.7 | 8.1 | 4.2 | 1.6 | 0.1 | 2.7 | 3.7 | 6.9 | 11.2 | 14.1 |
| omox Airport | 17.3 | 16.8 | 13.7 | 9.1 | 5,4 | 3.6 | 2.1 | 3.9 | 4.9 | 7.9 | 12.1 | 15.2 |
| ooke . | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

[___]

E-13

ABLE E-11: 1941-1970 MONTHLY MEAN TEMPERATURES (^{OC)} AT SELECTED GEORGIA STRAIT WEATHER REPORTING STATIONS

Source: Atmospheric Environment Service, Pacific Regional Office, Vancouver

| | | | | | | | | . <u> </u> | | | | | _ |
|-----------------------|------|------|------|-------|-------|-------|-------|------------|-------|--------|------|------|---|
| | | | | | | | | | | | | | |
| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | |
| ancouver Airport | 29.7 | 37.1 | 61.2 | 122.2 | 141.2 | 165.4 | 143.3 | 116.6 | 93.7 | 61.0 | 47.5 | 45.2 | |
| ictoria Airport | 18.5 | 24.9 | 36.6 | 87.4 | 127.5 | 145.5 | 146.3 | 96.8 | 69.1 | 44.2 | 30.5 | 29.2 | |
| ictoria (Phyllis St.) | NA | NA | NA | ŅA | NA | NA | NA | NA | NA | NA | NA | NA | |
| aturna Island | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| owell River | 42.4 | 53.1 | 64.8 | 149.9 | 158.2 | 170.4 | 140.7 | 102.1 | 90.2 | 74.2 ` | 51.6 | 58.4 | |
| anaimo Airport | 23.1 | 25.1 | 43.9 | 106.4 | 153.9 | 180.6 | 161.8 | 110.7 | 101.3 | 63.5 | 37.3 | 39.4 | |
| erry Island | 29.7 | 39.9 | 57.2 | 103.6 | 118.6 | 129.3 | 118.1 | 82.8 | 62.0 | 59.4 | 40.6 | 41.4 | |
| ibson's (Gower Point) | 44.2 | 52.6 | 83.3 | 161.3 | 172.7 | 206.2 | 174.5 | 144.8 | 115.8 | 74.4 | 53.8 | 44.2 | |
| ampbell River Airprt. | 39.1 | 51.6 | 68.1 | 166.4 | 231.1 | 270.3 | 227.1 | 165.6 | 143.3 | 76.5 | 48.5 | 51.1 | |
| omox Airport | 28.4 | 41.9 | 47.5 | 132.6 | 186.9 | 211.6 | 196.1 | 125.5 | 107.7 | 56.9 | 34,5 | 36.8 | |
| ooke | NA | ŊA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| ~ | | | | | | | | | | | | | |

ABLE E-12: 1941-1970 MONTHLY MEAN PRECIPITATION (mm) AT SELECTED GEORGIA STRAIT WEATHER REPORTING STATIONS

ource: Atmospheric Environment Service, Pacific Region Office, Vancouver

APPENDIX F

VERIFICATION OF OVERFLIGHT COUNTS

· · · ·

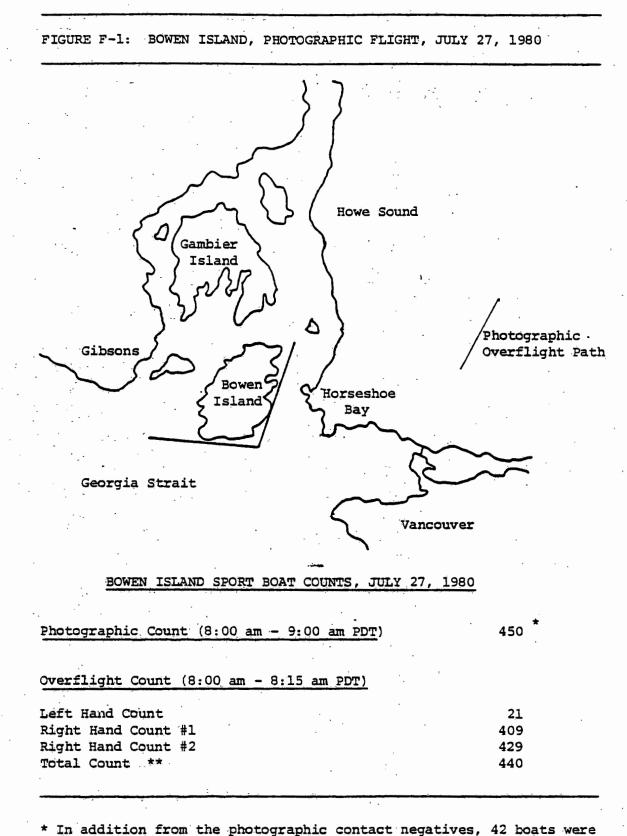
The accuracy and precision of the procedure used to count sport fishing boats from an aircraft is of some concern in the methodology. In this context, the accuracy of the overflight counts refers to the magnitude of any deviations of the visual counts from the "true" number of sport boats fishing in the region (bias). Precision, in turn, refers to the size of any deviation of an overflight count from the mean count as determined from repeated observations (sampling variation). In this appendix, both types of "observer error" are investigated.

On two occasions aerial photographs of selected densely populated sport fishing grounds were taken fron an independent aircraft at the same time as overflight counts were being conducted. Accordingly, it was possible to compare sport boat counts as determined from photographic contact negatives.

On the overflight day July 27, 1980 (Vancouver Sun Derby Day) the east and south shorelines of Bowen Island in Howe Sound were photographed (Figure F-1). The count of 440 boats sighted from the air is within 3 percent of the 450 sport boat¹ from the photographic flight.

On the overflight day September 17, 1980 the southern tip of Quadra Island (Cape Mudge) near Campbell River was photographed (Figure F-2). The area covered was essentially sub-areas 13A and 13C (Appendix B). The total visual count of 187 sport fishing boats compared favourably with the total

¹ Part of the discrepancy may be due to the fact that the timing of the overflight and the photographic flight could not be matched exactly.

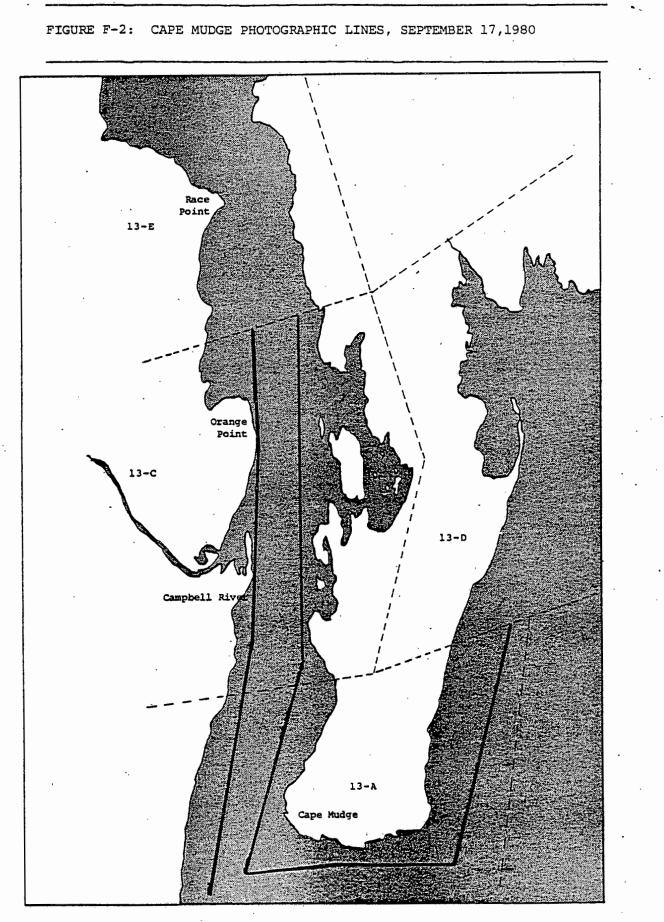


1

* In addition from the photographic contact negatives, 42 boats were deemed to be "running" and 95 boats were deemed to be moored.

** Left hand count plus average of right hand counts.

F-2



}

Lines of Photographic Flight

F-3

FIGURE F-2: Continued

1

| CAPE MUDGE SPORT BOAT COUNTS, SEPTEMBI | ER 17, 1980 | | · |
|--|-----------------|-----------------|-------|
| | Sub-Area 13A | Sub-Area 13C | Total |
| Photographic Count (10:00 am - 10:30 am PDT) | 148 | 39 | 187 |
| Overflight Count (10:00 am 0 10:30 am PDT) | | | |
| Left hand Count | 37 | 99 | 136 |
| Right hand Count #1 | 35 | 14 | 49 |
| Right hand Count #2 | 34 | 11 | 45 |
| Total Count * | 72 | 112 | 184 |
| | | | |

~

* Left hand count plus average of right hand counts.

. . .

photographic count of 184. However, there are significant differences in the distribution of the counts between the two sub-areas. This is somewhat atypical in that in the majority of cases, sub-area boundaries do not traverse major sport fishing grounds. However, this example does tend to highlight the fact that the geographic resolution of sport boat counts is less accurate at the sub-area level.

The data presented above and documenting the disparities in right hand overflight counts illustrate the procedure by which the precision or sampling variblity of overflight counts can be assessed. Generally, on a total statistical area basis, it was found that two right hand counts differed by at most 5 percent and in relation to sampling variation between overflight days, was of minimal importance.

Generally the two examples presented represent a good test of the accuracy and precision of the overflight procedure since one would expect greatest errors to occur at densely populated fishing grounds. Based on the empirical evidence from the internal verification inherent in having two right hand overflight counts and from the photographic verification procedure, it is concluded that at the total statistical area level observer error (bias and sampling error) is not a concern. However, as noted above, one could expect lower precision at a finer geographic level.

APPENDIX G

WEIGHTED ESTIMATES OF SALMON CATCH

PER BOAT TRIP

| | | | | | | | | | | • | | |
|------------------|------------|------|------------|---------------|------|------|-----------|-------|-----------|------|------|-------------|
| | | We | ekday | | • | We | ekend | | | T | otal | |
| Area of Landing | co | СН | SM | T SAL | co | CH | <u>5M</u> | T SAL | <u>co</u> | СН | SM | T SAL |
| Campbell River | 1.59 | .26 | .04 | 1.90 · | 1.46 | .21 | .03 | 1.70 | 1.54 | .24 | .04 | 1.82 |
| Chemainus | .41 | 1.32 | - | 1.73 | .31 | 1.02 | .01 | 1.34 | .35 | 1.15 | .01 | 1.51 |
| Central Comox* | 1.27 | .19 | - | 1.47 | 1,16 | .24 | - | 1.41 | 1.24 | .20 | . – | 1.45 |
| North Comox * | 2.04 | .17 | .06 | 2.28 | 3.30 | .15 | - | 3.45 | 2.12 | 17 | .06 | 2.35 |
| South Comox | | | | | | : | | • | | | | |
| Cowichan Bay | .03 | .41 | - | .44 | .03 | .41 | .01 | .45 | .03 | .41 | - | .44 |
| Delta | .71 | .66 | .10 | 1.47 | .64 | .56 | .01 | 1.21 | .67 | .60 | .05 | 1.32 |
| Egmont | 21 | .14 | - . | . 35 | .28 | .27 | - | .55 | .23 | .18 | - | .41 |
| Gibson's Landing | .91 | .28 | - , | 1.19 | .31 | .20 | - | .50 | . 57 | .23 | - | .80 |
| Ladysmith | .09 | .60 | - | .68 | .65 | .73 | - | 1.38 | . 39 | .67 | - | 1.06 |
| Lund | .91 | .09 | | 1.00 | .58 | .13 | | .71 | .79 | .11 | - | .89 |
| Nanaimo | .53 | .77 | .02 | 1.32 | 1.24 | .91 | .01 | 2.16 | .87 | .84 | .01 | 1.73 |
| Pender Harbour | 1.42 | .27 | .01 | 1.70 | 1.54 | , 31 | - | 1.86 | 1.47 | .29 | - | 1.76 |
| Powell River | 1.01 | .22 | .06 | 1.29 | 1.13 | .17 | .05 | 1.35 | 1.06 | . 20 | .05 | 1.32 |
| Qualicum North | 1.01 | .09 | .01 | 1.11 | 1.35 | .18 | .01 | 1.55 | 1.14 | .13 | .01 | 1.27 |
| Qualicum South | 1.18 | .48 | .03 - | 1.69 | 1.46 | .49 | .01 | 1.96 | 1.28 | .48 | .03 | 1.79 |
| Richmond | .36 | .14 | .09 | . 59 | .50 | .26 | .15 | .92 | .47 | .23 | .14 | .84 |
| Saanich Inlet | .05 | .55 | · _ | .59 | .06 | .35 | - | .42 | .06 | .45 | - | .51 |
| Sooke | 1.03 | . 24 | .02 | 1.29 | .65 | .21 | .01 | .88 | .86 | .23 | .02 | 1.10 |
| Vancouver | .63 | .95 | 05 | 1.63 | .60 | .60 | .05 | 1.26 | .62 | .76 | .05 | 1.43 |
| West Vancouver | .56 | .19 | .01 | .76 | .25 | .20 | .01 | :46 | .41 | .19 | .01 | .60 |
| Victoria | .02 | .46 | - | .48 | .05 | .40 | - | .45 | .03 | .43 | - | .46 |
| Sidney | .07 | .44 | - | .51 | .09 | .41 | .02 | .52 | .08 | .43 | .01 | .52 |

TABLE G-1: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, JULY 1980

Legend: CO - Coho

Cii – Chinook

SM - Other salmon or unidentified salmon

T SAL - All salmonids

*Weekday and weekend estimates refer to different combinations of landing sites.

TABLE G2: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, AUGUST 1980

| | | Wee | kday | | | Wee | ekend | | | | То | tal | • |
|------------------|------|------|------|-------|------|-----------|----------------|-------|---|-----------|------|-------|-------|
| Area of Landing | co | СН | SM | T SAL | co | <u>CH</u> | <u>SM</u> | T SAL | | <u>co</u> | СН | SM | T SAL |
| Campbell River* | 1.26 | .23 | .01 | 1.51 | 1.40 | .26 | .04 | 1.69 | 1 | . 31 | . 24 | .02 | 1.58 |
| Chemainus | . 31 | .20 | - | .51 | . 35 | .52 | - | .87 | | .33 | . 37 | - | .70 |
| Central Comox* | .62 | .44 | .01 | 1.07 | .73 | .21 | .01 | .95 | | .65 | . 38 | .01 | 1.04 |
| North Comox* | 1.20 | .29 | .04 | 1.53 | 1.01 | .29 | .03 | 1.32 | 1 | .15 | .29 | .04 | 1.48 |
| South Comox | | | | | | | | | | | | | |
| Cowichan Bay | .02 | .51 | - | .53 | .04 | . 39 | - . | .43 | | .03 | .46 | - | . 49 |
| Delta | . 30 | .23 | .13 | .66 | . 46 | .44 | .01 | .91 | | . 39 | . 35 | .06 | .80 |
| Egmont | .04 | .07 | - | .10 | .02 | .15 | - | .17 | | .03 | .10 | - | .13 |
| Gibson's Landing | . 38 | . 32 | .03 | .73 | 1.16 | .18 | - | 1.34 | | .70 | . 26 | .02 | .97 |
| Ladysmith | .11 | .28 | - | . 38 | .17 | . 35 | .02 | .54 | | .14 | . 32 | .01 ' | .46 |
| Lund | 1.12 | .05 | - | 1.16 | .35 | .14 | • - | .48 | | .94 | .07 | | 1.01 |
| Nanaimo | .19 | .31 | .01 | .51 | . 49 | .49 | .01 | .99 | | . 32 | . 39 | .01 | .72 |
| Pender Harbour | .77 | .15 | - | .92 | 1.18 | .26 | - | 1.43 | | . 92 | .19 | - | 1.10 |
| Powell River* | .72 | . 32 | - | 1.04 | .60 | .22 | .02 | .85 | | .66 | . 27 | .01 | .93 |
| Qualicum North | .70 | .19 | .07 | .95 | .55 | .17 | - | .72 | | .64 | .18 | .04 | .86 |
| Qualicum South | .65 | .48 | - | 1.13 | .68 | .42 | .03 | 1.14 | | .67 | .45 | .01 | 1,13 |
| Richmond | .80 | .20 | .12 | 1.12 | .43 | .31 | .03 | .76 | | . 49 | . 29 | .04 | .82 |
| Saanich Inlet | .07 | . 79 | - | .86 | .08 | .75 | - | .83 | | .07 | .77 | - | .84 |
| Sooke | .25 | .51 | .03 | . 79 | , 40 | .41 | .01 | .83 | | .33 | .46 | .02 | .81 |
| Vancouver* | .84 | .42 | .09 | 1.35 | .80 | .28 | .11 | 1.19 | | .81 | . 33 | .10 | 1.25 |
| West Vancouver | .62 | .09 | .03 | .75 | .49 | .07 | .06 | .62 | | . 56 | .08 | .05 | .68 |
| Victoria | .03 | .61 | - | .65 | .02 | .44 | - | .46 | | .02 | .53 | - | .55 |
| Sidney | - | .33 | - , | .33 | .11 | .41 | .01 | . 53 | | .05 | . 37 | .01 | .43 |

Legend: CO - Coho

SM - Other salmon or unidentified salmon

CH - Chinook

T SAL - All salmonids

*Weekday and weekend estimates refer to different combinations of landing sites.

G-2

| | | We | ekday | | | We | ekend | · · | | | Total | |
|------------------|-------------|------|------------|-------|------------|------------|-------------|-------|------------------|------|-----------|--------------|
| Area of Landing | . <u>co</u> | СН | SM | T SAL | <u>0</u> | <u>Сн</u> | SM | T SAL | <u><u>co</u></u> | CH | <u>SM</u> | <u>T SAL</u> |
| Campbell River | 1.84 | . 24 | _ · | 2.08 | 1.06 | .14 | - | 1.20 | 1.54 | .20 | - | 1.74 |
| Chemainus | - | .63 | • - | .63 | .17 | 1.06 | - ', | 1.22 | .06 | .78 | - | .84 |
| Central Comox | . 47 | .28 | .01 | .76 | . 38 | .34 | - | .72 | . 42 | . 31 | .01 | .74 |
| North Comox | .84 | .17 | .01 | 1.03 | 1.32 | .16 | - | 1.48 | .98 | .17 | .01 | 1.16 |
| South Comox | | | | | | | | | | | | |
| Cowichan Bay | .11 | .28 | - | . 38 | .08 | . 30 | - | . 39 | .10 | .29 | - | . 38 |
| Delta | . 29 | .24 | .10 | .62 | 1.07 | .20 | - | 1.27 | .70 | .22 | .05 | .96 |
| Egmont | | | | | | - | | | | | | |
| Gibson's Landing | .45 | . 32 | | .77 | . 36 | .27 | - | .64 | .40 | . 29 | - | .69 |
| Ladysmith | .09 | .40 | - | .57 | .23 | 1.05 | - | 1.28 | .15 | .73 | - | .88 |
| Lund | | | | | .14 | .14 | - | . 29 | | | | |
| Nanaimo * | . 31 | .16 | - | .47 | .42 | .33 | .04 | .79 | . 39 | . 28 | .03 | . 70 |
| Pender Harbour | 1.23 | . 48 | - | 1.71 | .63 | .37 | .01 | 1.02 | .93 | . 42 | .01 | 1.36 |
| Powell River | | | | | .56 | .27 | . 01 | 84 | | | | |
| Qualicum North | · . 35 | .10 | - | . 45 | .56 | . 31 | .01 | .88 | .46 | . 20 | .01 | .67 |
| Qualicum South | .47 | .42 | - | . 89 | . 46 | .40 | .07 | .94 | . 47 | .41 | • •03 | .91 |
| Richmond | . 32 | .14 | .04 | . 50 | . 58 | .58 | .06 | 1.22 | .45 | . 37 | .05 | .88 |
| Saanich Inlet | . 32 | .93 | .01 | 1.26 | .16 | .89 | - | 1.05 | .24 | .91 | - | 1.15 |
| Sooke | . 42 | 1.19 | .08 | 1.69 | .41 | .79 | .01 | 1.21 | .41 | .99 | .04 | 1.45 |
| Vancouver | .84 | .15 | .01 | 1.01 | . 47 | .14 | .01 | .62 | .57 | .14 | .01 | .72 |
| West Vancouver | .82 | .08 | .03 | .93 | .63 | .15 | .01 | .79 | .70 | .12 | .02 | .84 |
| Victoria | .04 | . 47 | - | .51 | .02 | .43 | - | .46 | .03 | - 45 | - | .48 |
| Sidney | - | .25 | . – | . 25 | .06 | .29 | - | . 35 | .04 | .28 | - | . 32 |

TABLE G 3 .: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, SEPTEMBER 1980

Legend: CO - Coho

SM - Other salmon or unidentified salmon

CH – Chinook

1

T SAL - All salmonids

*Weekday and weekend estimates refer to different combinations of landing sites. /

TABLE G4: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, OCTOBER 1980

| | | We | ekday | | • | We | eekend | | - | - 1 | Total | |
|-----------------|------|------|-------|-------|------|------------------|------------|-------|------|------|-------|-------|
| Area of Landing | CO | СН | SM | T SAL | co | · <u>CII</u> ··· | SM | T SAL | CO | СН | SM | T SAL |
| . (| | | | | | | | | | | | |
| Campbell River | 1.21 | . 31 | .⁄09 | 1.62 | 1.02 | .10 | - | 1.12 | 1.15 | .24 | .06 | 1.45 |
| Chemainus | | | | | | | | | | | | |
| Central Comox | - | .07 | .80 | 87 | .21 | .05 | .17 | .43 | .13 | .06 | .40 | . 59 |
| North Comox | | | | | | | | | | | ~* | |
| South Comox | | | | , | • | | | | - | | | |
| Cowichan Bay | | | | | .17 | .50 | · - | .67 | | | | |
| Delta | | | | | | | | | | | | |
| Igmont | | | | | | | | | | | | |
| ibson's Landing | - | .25 | - | .25 | .43 | .04 | - | .47 | .21 | .15 | - | . 36 |
| adysmith | | | | | | | | | | | | |
| und | | | | | | | | | | | | |
| anaimo | .43 | .73 | - | 1.16 | . 31 | .81 | .01 | 1.12 | . 37 | .77 | - | 1.14 |
| ender Harbour | .06 | - | - | .06 | .05 | . 36 | .03 | .45 | .05 | .22 | .02 | .29 |
| owell River | | | | | .40 | 1.41 | .02 | 1.83 | | | | |
| ualicum North | | | | | | | | | | | | |
| ualicum South | .72 | .67 | - | 1.39 | .71 | .50 | .07 | 1.27 | .71 | .57 | .04 | 1.32 |
| lichmond | | | | , | . 36 | .14 | - | . 49 | | | | |
| aanich Inlet* | .20 | . 31 | · - | .51 | .19 | .71 | .02 | .92 | .19 | .63 | .01 | .83 |
| ooke * | .20 | 1.16 | .01 | 1.37 | .17 | .76 | · _ | .93 | .19 | 1.05 | .01 | 1.25 |
| ancouver | | | | | .07 | .25 | - | . 32 | | | | |
| lest Vancouver | - | .27 | - | .27 | .08 | . 24 | .01 | . 33 | .04 | .26 | - | . 30 |
| victoria | .05 | .18 | - | .22 | .04 | .25 | - | . 29 | .04 | .22 | | .26 |
| Sidney | | | | | - | .24 | - | .24 | | | | |

CH – Chinook

T SAL - All salmonids

*Weekday and weekend estimates refer to different combinations of landing sites.

G-4

| | | | We | ekday | | | We | ekend | Ϋ́. | | | Total | |
|-----------------|---|----------------|------------|---------------------------------------|--------------|--------------|------------|----------------|---------------|------|---------|-------|-------|
| | | | | | | <u> </u> | | | | - | <u></u> | ····· | |
| area of Landing |) | <u>co</u> | CH | SM | T SAL | <u>co</u> | СН | SM | T SAL | | | H SM | T SAL |
| Campbell River | | - | .60 | - | .60 | - | .45 | _ | .45 | | 5 | 0 - | .50 |
| Chemainus | | | | | | | | | | | | | |
| Central Comox | | - | .82 | | .82 | - | . 33 | .15 | . 48 | | 5 | 8.07 | .66 |
| North Comox | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | •••• | |
| Cowichan Bay | | | | , | | . 39 | 1.48 | .21 | 2.09 | | | | |
| Delta | | | • | • | | | | | | | | | |
| gmont | | | | | | | | | | | | | |
| ibson's Landing | | | | | | | | | | | | | |
| adysmith | | | | | | | | | | | | | |
| und | | | | | | | | | | | | | |
| anaimo | | .05 | 2.23 | - | 2.27 | .47 | 1.53 | - . | 2.00 | | .9 1.9 | | 2.18 |
| ender Harbour | | - | 1.11 | .09 | 1.20 | - | 1.25 | - | 1,25 | | . 1.1 | B .04 | 1.22 |
| owell River | | | | | | .08 . | 1.75 | - | 1.83 | | · | | |
| Qualicum North | | | | | | | | | | | | | |
| Qualicum South | | | , | | | - | .67 | - | .67 | | | | |
| Richmond . | | | | | | | | | | | | - | |
| Saanich Inlet | | .61 | 2.36 | - | 2.97 | . 50 | .67 | - | . 1.17 | .! | 4 1.3 | 5 – | 1.90 |
| looke | | .13 | 2.13 | .03 | 2.29 | .15 | 1.36 | - | 1,51 | •1 | .4 1.7 | 2.02 | 1.87 |
| lancouver | | | | | | - | .61 | - | .61 | | | | 1 |
| lest Vancouver | | - | .81 | - | .81 | - | .78 | - | .78 | - | .8 | D · – | .80 |
| /ictoria | | | | | | .22 | 1.85 | | 2.07 | | | | |
| Sidney | | | | | | - | .48 | - | .48 | | | | |
| | | | | · · · · · · · · · · · · · · · · · · · | ····· | | | | | | | · | · · · |
| | | Legen | nd: CO - (| Coho Chinook | | | | | identified sa | lmon | | | |
| | | | Cn - (| CHINOOK . | | T SAL - | All salmo | nias | | • | | | |
| | | *We e k | day and w | eekenå est | timates refe | r to differe | ent combin | ations of | landing site | es. | | | |
| | | | | | | | | | • | | | | |

TABLE G5: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, NOVEMBER 1980

•

.

TABLE G6: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, DECEMBER 1980

٠

| , , | | | | | | | | · · | | | | |
|-----------------|-----|-------------|---------|-------|------|-----------|-------|-------|-------------|------|------|-------|
| | _ | W | leekday | • | | We | ekend | | | · To | otal | |
| Area of Landing | C | <u>о сн</u> | SM | T SAL | co | <u>CH</u> | SM | T SAL | . <u>co</u> | Сн | SM | T SAL |
| Campbell River | - | 1.50 | - | 1.50 | | 1.86 | - | 1.86 | - | 1.78 | - | 1.78 |
| Chemainus | | | | | | | • | | | | | |
| Central Comox | - | .83 | - | .83 | - | 1.80 | - | 1.80 | - | 1,29 | - | 1.29 |
| lorth Comox | | | | | | | | | | | | |
| South Comox | • | | | | | | | | | | | |
| Cowichan Bay | | | | | - | 2.25 | - | 2.25 | | | | |
| elta | | | | • | | | | | · | | | |
| gmont | | | | | | | | • | | 、 | | |
| ibson's Landing | | . • | | | | . • | | | • | | | • |
| adysmith | | | • • | • | | : | | | | | | |
| und | | | | | | | | · | | | | ` |
| anaimo | | 1.72 | - | 1.72 | - | 1.83 | - | 1.83 | - | 1.78 | - | 1.78 |
| ender Harbour | - | .92 | | .92 | - | .72 | - | .72 | - | .82 | - | .82 |
| owell River | | | | | 2.53 | - | - | 2.53 | | | | |
| ualicum North | | | | | | | | | | | | |
| ualicum South | | | `, | | | | | | | | • | • |
| ichmond | | | | | | | | | | | | |
| aanich Inlet | 1.4 | .96 | - | 2,38 | 1.09 | 1.63 | - | 2.72 | 1.23 | 1.34 | - | 2.57 |
| ooke | - | | - | 1.29 | 05 | 1.55 | - | 1.60 | .03 | 1.45 | - | 1.48 |
| ancouver | | *- | | | - | .77 | - | .77 | | | | ••• |
| est Vancouver | - | 1.21 | - | 1.21 | - | . 37 | - | . 37 | - | .89 | - | .89 |
| ictoria (| | | | | .05 | 1.75 | - | 1.80 | | | | |
| Sidney | | | | | ,- | 1.80 | - | 1.80 | | | , | |

Legend: CO - Coho

SM - Other salmon or unidentified salmon

CH - Chinook

T SAL - All salmonids

*Weekday and weekend estimates refer to different combinations of landing sites.

G-0

| rea of Landing | | Wee | kday | | • | We | ekend | | | Т | otal | |
|-----------------|-------|-----------|--------|-------|---------------------|------|-------|---------------|----------------|------|------|-------|
| rea of Landing | co | СН | SM | T SAL | <u>co</u> | СН | SM | T SAL | <u>co</u> | CH | SM | T SAL |
| | | | | , | | | | | | | | |
| ampbell River | - | 1.30 | - | 1.30 | .04 | 1.66 | - | 1.70 | .03 | 1.57 | - | 1.59 |
| nemainus | | | | · • | | | | | | | | |
| entral Comox | - | 2.00 | - | 2.00 | - | 1.09 | - | 1.09 | · · | 1.74 | - | 1,74 |
| orth Comox | | | | | | | | | | | | |
| outh Comox | | | | | | | | - | | | | |
| owichan Bay | | | | | .02 | 1.44 | - | 1.46 | ~ ' | | | |
| elta | | | | | | | | | | | | |
| ymont | • | | | | | | | | | | | |
| ibson's Landing | | | | | | | | | | | | |
| adysmith | | | | | . 30 | 267 | · | 2.97 | | | | |
| nd | | | | | | | | | • | | | |
| anaimo | .12 | 2.13 | - | 2.25 | .15 | 2,66 | - | 2.81 | .14 | 2.49 | | 2.63 |
| ender Harbour * | - | .64 | - | .64 | , | .19 | .02 | .21 | - | .29 | .02 | . 31 |
| owell River | · | | | | 1.43 | . 29 | - | 1.71 | | | 1 | · |
| alicum North | | | | | | | | | | | | |
| ualicum South | | | | | 1.75 | 1.63 | - | 3.38 | | | | |
| chmond | | | | | | | | | | | | |
| anich Inlet * | 1.23 | 1.59 | - | 2.82 | .48 | 1.29 | - | 1.76 | ,75 | 1.40 | - | 2.15 |
| ooke * | .07 | .61 | - | .68 | .08 | 1.13 | - | 1.22 | .08 | 1.04 | - | 1.13 |
| ancouver | | | | | .02 | . 79 | - | .82 | | | | |
| est Vancouver | - | .71 | - | .71 | - | .70 | - | .70 | - | .70 | - | .70 |
| lctoria | | | | | .11 | 1.48 | - | 1.59 | | | | |
| idney | | | | | - | 2,15 | - | 2.15 | | | | ۰. |
| <u></u> | | a. co c | | | | | | | | | | `. |
| | regen | d: co - c | hinook | | SM - O T SAL - A | | | identified sa | T 116711 | | | |

TABLE G7: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, JANUARY 1981

[____

TABLE G8: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, FEBRUARY, 1981

| • • | | Wee | kday | | | Wee | ekend | | | | Тс | otal | |
|------------------|------|------|------------|-------|----------------|------|-------|-------|----|------|------|------|-------|
| Area of Landing | co | СН | SM | T SAL | co | CH | SM | T SAL | | co | СН | SM | T SAL |
| | • | | | | | | | | | | | | |
| Campbell River | | .50 | - | .50 | - | 1.32 | - | 1.32 | •. | - | 1.21 | - | 1.21 |
| Chemainus | | | | | | • • | | | | | | t | |
| Central Comox | - | .40 | - | .40 | - | .56 | - | :56 | | - | .50 | - | .50 |
| North Comox | | | | | | | | | • | | | | |
| South Comox | | | | | · | | | | | | | | |
| Cowichan Bay | | | | | . 23 | .15 | | .38 | | | | | |
| Delta | | | | | | | | | | | | | |
| Egmont | | | | | | • | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | |
| Ladysmith | | | | | .07 | .77 | - | .84 | | | | | |
| Lund | | | | | | | | • | | | | | |
| Nanaimo | . 39 | 2.94 | - | 3.33 | .04 | 3.52 | '- | 3.56 | | .14 | 3.36 | - | 3.50 |
| Pender Harbour * | - | .43 | _ | . 43 | - | .24 | - | .24 | | - | .30 | - | . 30 |
| Powell River | | | | | 1.25 | .25 | - | 1.50 | | | | • | |
| Qualicum North | | | | | | | | | | | | | |
| Qualicum South | 1.50 | 1.50 | - | 3.00 | , - | 2.13 | - | 2.13 | | .68 | 1.84 | - | 2.52 |
| Richmond | | | | | | | | | | | | | |
| Saanich Inlet* | .72 | .47 | - | 1.20 | . 24 | ,52 | - | .76 | | . 35 | .51 | - | .87 |
| Sooke * | - | 1.53 | - ' | 1.53 | .25 | 1.55 | - | 1.80 | | .22 | 1.55 | - | 1.78 |
| Vancouver | - | | | | - | . 54 | - | .54 | | | : | | |
| West Vancouver | - | .61 | - | .61 | - | .69 | - | .69 | | ·_ | .64 | - | .64 |
| Victoria | | | | | .28 | .95 | - | 1.23 | | | | | |
| Sidney | | . • | | | .02 | .77 | - | .79 | | | | | |

Legend: CO - Coho

SM - Other salmon or unidentified salmon

CH - Chinook

1

.

T SAL - All salmonids

"Weekday and weekend estimates refer to different combinations of landing sites. `

G-8

Weekday Weekend Total <u>____</u> СН SM T SAL <u>co</u> СН SM <u>co</u> Area of Landing СН SM T SAL T SAL Campbell River* .40 .40 .49 .40 .89 .36 .40 .76 Chemainus Central Comox -North Comox South Comox Cowichan Bay .17 .39 .57 Delta Egmont Gibson's Landing Ladysmith .73 .33 1.06 Lund Nanaimo * .22 .94 1.15 . 32 1.39 1.71 .27 1.19 1.46 Pender Harbour .13 .45 .58 . 29 .20 .49 .20 .35 .54 Powell River -.75 .75 Qualicum North Qualicum South .67 1.17 1.83 .29 1.61 1.91 _ .46 1.42 1.87 Richmond . Saanich Inlet * . 24 .44 .67 . 18 .31 .49 .21 -.37 .57 ----Sooke * 1.94 .39 2.34 .47 .80 .04 1.31 . .68 .74 .04 1.46 Vancouver .47 .2168 West Vancouver -.65 .65 ÷ -.33 _ .33 .48 .48 Victoria 1.64 . 59 .18 2.41 Sidney .48 _ _ .48 ς. Legend: CO - Coho SM - Other salmon or unidentified salmon

TABLE . G9: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, MARCH, 1981

CH - Chinook

T SAL - All salmonids

G-9

"Weekday and weekend estimates refer to different combinations of landing sites.

TABLE G10: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, APRIL, 1981

| | | We | ekday | | , | We | eekend | | | | Total | • |
|------------------|------------------|------|-------|-------|-----------|-------------------|-------------|------|-------|------|------------|--------------|
| Area of Landing | <u><u>co</u></u> | СН | SM | T SAL | <u>co</u> | СН | SM | TSAL | CO | СН | SM | <u>T SAL</u> |
| Campbell River * | 1.22 | .22 | - | 1.44 | . 34 | .08 | - | . 42 | . 57 | .11 | - | .68 |
| Chemainus | | | | | | | | | | | | |
| entral Comox | · | .21 | - | .21 | 1.79 | .51 | - | 2.30 | 1.46 | .46 | _ | 1.92 |
| orth Comox | | | | | - | | | | | | | |
| outh Comox | | | • | | | | | | | | | |
| owichan Bay | • | | | | .17 | | - | .17 | | | | |
| elta | • | | | | | | | • | | | | |
| gmont | | | | . · | · . | | | | | | | |
| ibson's Landing | | | | | | | | | | | | |
| adysmith | | | | | .20 | .20 | - | .40 | | | | |
| und | | | | | | | | | | | | |
| anaimo * | .85 | . 24 | - | 1.09 | 1.05 | . 36 | - | 1.42 | .97 | . 32 | - | 1.29 |
| ender Harbour ' | .81 | .07 | - | .89 . | .64 | .06 | - | .69 | .73 | .07 | - ' | .80 |
| owell River | | | | | - | 1.05 _i | - | 105 | | | | |
| ualicum North | | | | | | | | | | | | |
| ualicum South | - | - | - | - | 1.77 | .28 | - | 2.05 | 1.57 | .25 | - | 1.82 |
| ichmond | •••• | | | | 1 | | | | | | | |
| aanich Inlet * | .09 | .79 | - | .88 | .03 | .59 | ć. - | .62 | .05 | .66 | - | .70 |
| ooke * ' | . 27 | .28 | - | .55 | . 38 | . 42 | .04 | .85 | . 3`5 | . 38 | .03 | .77 |
| ancouver | | | | | · – | . 57 | - | .57 | | , | | |
| est Vancouver | - | .18 | - | .18 | - | . 35 | - | .35 | - | . 29 | | . 29 |
| lictoria | | | • | • | .71 | . 16 | . 16 | 1.03 | | | • | |
| Sidney | | | , | | .12 | .06 | .12 | .29 | | | | |

CH - Chinook

T SAL - All salmonids

*Weekday and weekend estimates refer to different combinations of landing sites.

| | | Weę | ekday | . <u></u> | | We | ekend | <u>_</u> | | 1 | otal | |
|-----------------|------|------|-------------|-----------|------------|------|-------|-------------|-------|------|------|-------|
| rea of Landing | co | СН | SM | T SAL | co | СН | SM | T SAL | CO | СН | SM | T SAL |
| ampbell River | .56 | . 56 | - | 1.12 | .77 | . 53 | _ | 1.30 | .66 |) | | |
| hemainus | | | | | 、 . | | | 1.30 | .00 | .55 | - | 1.21 |
| entral Comox | 1.53 | .44 | .13 | 2.09 | 1.37 | .80 | - | 2.17 | 1.46 | . 58 | .08 | 2.12 |
| orth Comox | 3.84 | .05 | . 01 | . 3.90 | 3.17 | .04 | .03 | 3.24 | 3.63 | .05 | .08 | 3.69 |
| outh Comox | | | | | | | | | | .05 | .02 | 3.09 |
| owichan Bay | | | | | .15 | .31 | - | . 46 | | | | |
| elta | | | | | | | | | | | | |
| gmont | | ť. | | | | | · | | | | | |
| ibson's Landing | . 22 | 1.94 | - | 2.16 | .31 | 1.20 | - | 1.50 | . 25 | 1.67 | - | 1.92 |
| adysmith | | | | | | | | | | 1.07 | | 11.72 |
| und | | | | | .50 | | - | .50 | | | | |
| anaimo * | 2.00 | .57 | | 2.57 | .82 | .37 | - | 1.19 | 1.45 | . 48 | - | 1.93 |
| ender Harbour * | 1.05 | . 92 | - | 1.97 | .59 | 1.24 | .06 | 1.89 | .93 | 1.01 | .02 | 1.95 |
| owell River | 1.03 | .07 | - | 1.10 | . 98 | . 19 | .07 | 1.24 | 1.02 | .09 | .01 | 1.12 |
| ualicum North | 2.46 | .08 | - | 2.54 | 2.81 | .27 | - | 3.08 | 2.60 | .15 | _ | 2.76 |
| ualicum South | 1.73 | .41 | | 2.14 | 1.79 | .52 | .01 | 2.31 | 1.76 | .46 | .01 | 2.22 |
| chmond | | | | | | | | | | | | |
| anich Inlet | 02 | .79 | - | .81 | .02 | .83 | · _ | .86 | · .02 | .82 | - | .84 |
| ooke ; | .14 | .52 | - | .67 | .12 | . 38 | - | . 51 | .13 | .45 | · - | .59 |
| ancouver | | | | | .11 | . 92 | - | 1.02 | | | | |
| est Vancouver | .10 | .72 | _ | .83 | .06 | .60 | - | .66 | .08 | .64 | - | .71 |
| ictoria | - | .59 | - | . 59 | .01 | .55 | - | .56 | .01 | .57 | - | .58 |
| idney | - | 1.14 | - | 1.14 | - | .52 | - | .52 | | .89 | - | .89 |

TABLE Gll: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, MAY, 1981

1

1

TABLE G12: WEIGHTED ESTIMATES OF AVERAGE SALMON CATCH PER BOAT TRIP, GEORGIA STRAIT CREEL SURVEY, JUNE, 1981

| | | We | ekday . | | | We | ekend | | | Т | otal | | |
|------------------|-------|-------|---------|-------|------|--------|-------|-------|------|------------|-----------|--------|---|
| Area of Landing | co | СН | SM | T SAL | CO | СН | SM | T SAL | co | <u>CII</u> | <u>5M</u> | T SAL | - |
| Campbell River | 1.14 | . 35 | .01 | 1.50 | 1.49 | . 26 | .01 | 1.76 | 1.28 | .31 | .01 | 1.61 | |
| Chemainus | .27 | 1.68 | - | 1.96 | | .76 | - | 1.04 | .28 | 1.17 | _ | 1.45 | |
| Central Comox | 1.60 | .24 | .22 | 2.07 | 1.69 | .46 | .16 | 2.31 | 1.64 | . 32 | .20 | 2.16 | |
| North Comox | 2.75 | .05 · | . 16 | 2.97 | 3.65 | .14 | .07 | 3.86 | 3.01 | .08 | . 14 | 3.22 | |
| South Comox | | | | | | | | | | | | | |
| Cowichan Bay | - | .66 | - | .66 | .12 | .77 | .04 | . 93 | .05 | .70 | .02 | .77 | |
| Delta | | | | | - | 1.00 | - | 1.00 | | | | | |
| Egmont | | | | | | | | | | | | | |
| Gibson's Landing | .18 | 1.44 | - | 1.63 | .19 | ,90 | - | 1.09 | .19 | 1.24 | - | 1.43 | G |
| Ladysmith | .05 | .79 | - | .84 | . 37 | • 1.13 | - | 1.50 | .16 | .90 | - | 1.06 | ł |
| Lund | | | | | 1.62 | .12 | - | 1.74 | | | | | • |
| Nanaimo | .59 | .46 | .04 | 1.09 | .68 | . 38 | .02 | 1.08 | .63 | . 42 | .03 | 1.08 | |
| Pender Harbour * | .59 | .24 | - | .83 | .64 | .68 | | 1.33 | .60 | . 32 | - | .91 | |
| Powell River | 2.27 | . 19 | - | 2.46 | 2.02 | . 45 | .05 | 2.52 | 2.19 | .28 | .02 | 2.48 | |
| Qualicum North | 1.57 | .16 | · _ | 1.72 | 1.8 | 5.12 | - | 1.98 | 1.66 | . 15 | - | 1.80 | |
| Qualicum South | 1.09 | .50 | - | 1.59 | 1.39 | .35 | ` | 1.74 | 1.22 | .43 | - | - 1,65 | |
| Richmond | .17 | . 33 | - | .50 | .15 | .29 | - | . 4.4 | .15 | .30 | - | . 45 | |
| Saanich Inlet | - | . 59 | - | . 59 | .04 | .53 | .01 | .57 | .02 | .56 | | .58 | |
| Sooke | · .02 | .45 | - ' | .47 | .03 | . 34 | | . 37 | .03 | .40 | - | . 42 | |
| Vancouver | .21 | . 45 | . 10 | .76 | .09 | . 92 | - | 1.01 | .12 | .78 | .03 | . 93 | |
| West Vancouver | . 22 | . 39 | - | .61 | .11 | .55 | .01 | .67 | .15 | .49 | .01 | .65 | |
| Victoria | .02 | .46 | - | .48 | · _ | .26 | - | .26 | .01 | . 38 | - | . 39 | |
| Sidney | `- | . 18 | - | .18 | .02 | .51 | - | .53 | .01 | . 35 | - | . 36 | |

Legend: CO - Coho

SM - Other salmon or unidentified salmon

CH - Chinook

T SAL - All salmonids

"Weekday and weekend estimates refer to different combinations of landing sites.

APPENDIX H

WEIGHTED DAILY FISHING PROFILES

÷

Nine broad regional groupings of the 23 grouped landing sites exist (see mapping in Table H-1). In addition, a tenth grouping (Campbell River Guided) comprising landing sites within the Campbell River area that mainly provided guided sport fishing expeditions was formed. Daily fishing patterns by month and day type for these 10 groupings are presented in Tables H-2 through H-11.

For November to April months only the following 4 Major Groupings existed:

. North Island (comprising the summer groupings of Campbell River, Comox, Qualicum and Nanaimo)

. Victoria Region (Victoria plus Saanich Inlet)

. Vancouver, and

Π

. Sechelt Peninsula.

TABLE H-1: LANDING SITE AND MAJOR REGION CODES

| CODE | GROUPED LANDING SITE | MAJOR REGIONAL GROUPING |
|------|----------------------|---------------------------|
| САМ | Campbell River | Campbell River |
| CHE | Chemainus | Nanaimo |
| coc | Central Comox | Comox |
| CON | North Comox | Campbell River |
| COW | Cowichan Bay | Nanaimo |
| DEL | Delta | South Arm of Fraser River |
| EGM | Egmont | Sechelt Peninsula |
| GIB | Gibson's | Vancouver |
| LDY | Ladysmith | Nanaimo |
| LND | Lund | Sechelt Peninsula |
| NAN | Nanaimo | Nanaimo |
| PH | Pender Harbour | Sechelt Peninsula - |
| PR | Powell River | Sechelt Peninsula |
| QUN | Qualicum North | Qualicum |
| QUS | Qualicum South | Qualicum |
| RIC | Richmond | Vancouver |
| SAN | Saanich Inlet | Saanich Inlet |
| SID | Sidney | Victoria |
| SOK | Sooke | Victoria |
| VAN | Vancouver | Vancouver |
| VAW | West Vancouver | Vancouver |
| VIC | Victoria | Victoria |
| | | |

.

TABLE H-2 : DAILY FISHING PATTERN BY MONTH AND DAY TYPE, CAMPBELL RIVER REGION

a second

| J | | · / | - | | | | - | - - | | · | | |
|-----------------------------|------|-------|------------|-------|-----------|-----------|-----------|---------|-------|-------|------------|-------|
| MIDWEEK DAYS | | | | | Proportio | n of Boat | s Fishing | by Hour | 5 | | . <i>.</i> | |
| | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before 7 AM | .183 | .231 | .188 | .015 | - | , - | · • • | - | .016 | .047 | .215 | .263 |
| 7 AM - 8 AM | | . 292 | | .187 | .033 | •- | .034 | · - | .109 | .102 | . 363 | .321 |
| | | .268 | .361 | . 323 | . 227 | .056 | .216 | .105 | .217 | .165 | . 390 | . 294 |
| 8 AM - 9 AM 9 AM - 10 AM | | .233 | .371 | . 423 | .493 | .367 | .351 | .175 | .353 | . 220 | .330 | .211 |
|) 10 AM - 11 AM | | .217 | .327 | .430 | . 553 | .367 | .466 | . 342 | .467 | .378 | .261 | .167 |
| 11 AM - 12 PM | | .187 | .271 | .451 | .460 | . 556 | . 596 | .482 | .429 | . 354 | .234 | .134 |
| 12 PM - 1 PM | | .189 | .240 | .516 | . 493 | .611 | .601 | .623 | . 391 | .346 | .151 | .099 |
| 1 PM - 2 PM | .140 | .192 | .248 | .490 | .487 | .611 | .615 | .693 | .429 | .339 | .126 | .121 |
| 2 PM - 3 PM | ٤. | .208 | .270 | .503 | 440 | .400 | .601 | .693 | .413 | .386 | .162 | .140 |
| 3 PM - 4 PM | | .217 | .335 | .438 | .280 | .189 | . 389 | . 482 | . 364 | .378 | .176 | .160 |
| 4 PM - 5 PM | | .243 | . 393 | .308 | .087 | - | .159 | .175 | . 440 | .362 | .165 | .194 |
| | | .285 | .415 | .195 | - | - | - | .070 | . 201 | .291 | .183 | .213 |
| | | .352 | .385 | .087 | - | - | - | - | .109 | .165 | .271 | .267 |
| 6 PM - 7 PM | | | .259 | | · - | - | - | - | - | .024 | .240 | . 294 |
| | | .359 | .058 | - | | - | - | - | - | - | .164 | .256 |
| 8 PM - 9 PM | | .249 | | | - | - | _ | - | - | - | .013 | .108 |
| After 9.PM | .177 | .084 | - , | | - | - | | | | | | |

| • | WEEKEND DAYS | · · | | Proportio | - of Bost | s Fishing | by Hourb | | | | |
|-------|---------------------------------------|------|-----------|-----------|------------|-----------|----------|-------|-------|-------|-------|
| | JUL | | SEP OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| | Before 7 AM .186 | | .134 .021 | .009 | . . | • · | | .066 | .050 | .245 | .248 |
| | 7 AM - 8 AM .229 | | .286 .359 | .036 | .039 | .043 | .075 | .261 | .080 | . 383 | .341 |
| - | | | .376 .489 | .113 | .102 | .152 | .184 | .394 | .169 | .415 | .338 |
| | 8 AM - 9 AM .226 9 AM - 10 AM .205 | | 400 .679 | .212 | . 391 | .312 | .301 | .509 | . 280 | . 374 | .312 |
| | | | .390 .662 | :257 | .430 | .468 | .410 | .554 | . 360 | .345 | .293 |
| | | | .344 .561 | .401 | .477 | .569 | .481 | . 560 | .410 | .306 | .283 |
| | | | 306 .439 | .505 | .570 | .612 | .566 | . 498 | .444 | . 250 | . 229 |
| | | • | .317 .354 | .649 | .516 | .625 | .587 | .443 | .427 | .282 | .207 |
| | | | .345 .300 | .662 | .391 | . 569 | . 551 | . 303 | .415 | .256 | . 207 |
| استنا | | . – | .404 .295 | .450 | . 305 | .426 | .361 | .287 | .443 | .236 | .247 |
| | | - | .455 .245 | .221 | .141 | .158 | .226 | .122 | .411 | .204 | .248 |
| - | 4 m = 9 m | | .435 .080 | | - | - | .044 | .017 | . 300 | .192 | .227 |
| | | | .351 - | - | - | - | - | .010 | .150 | .184 | .234 |
| | · · · · · · · · · · · · · · · · · · · | - | .223 - | - | _ | | - | • | .054 | .136 | .199 |
| 821 | 7 PM - 8 PM .313 | • | .023 - | | - | - | - | - | - | .060 | .168 |
| • | 8 PM - 9 PM .270 | | | | | - | - | - | - | .010 | .063 |
| - | After 9 PM .152 | .075 | | - | - | • • | - | | | | |

^a From May through October times are PDT. For other months times are PST.

All profiles are based on more than 40 interviews.

TABLE H-3: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, COMOX REGION

| MIDWEEK D | AYSa | ΄. | | | | | | | | | | | |
|-----------|------|--------------|------|-------|--------|------------|------------------|-----------|------------|----------|-------|-------|-------|
| | | JUL | AUG | SEP | OCT B | <u>NOV</u> | n of Boat DEC | S Fishing | FEB | MAR | APR | MAY | אטנ |
| Before | 7 AM | .119 | .093 | .210 | - | - | • _ | · _ | , - | .016 | .047 | .077 | .075 |
| 7 AM - | 8 AM | .130 | .131 | .338 | .067 | .033 | • | .034 | - | .109 | .102 | .161 | .110 |
| | 9 AM | .117 | .088 | .279 | .133 | . 227 | .056 | .216 | .105 | .217 | .165 | .209 | .130 |
| | O AM | .079 | .073 | .244 | .267 | . 493 | .367 | .351 | .175 | .353 | .220 | .246 | . 194 |
| | 1 AM | .035 | .077 | .211 | .533 | .553 | . 367 | . 466 | .342 | .467 | .378 | .292 | .237 |
| | 2 PM | .029 | .068 | .176 | .800 | .460 | .556 | .596 | .482 | .429 | .354 | . 322 | .172 |
| | 1 PM | .039 | .069 | .230 | .733 | . 493 | .611 | .601 | .623 | .391 | . 346 | .297 | .122 |
| | 2 PM | .082 | .104 | .254 | .333 | .487 | .611 | .615 | .693 | . 429 | .339 | 238 | .091 |
| 2 PM - | 3 PM | .122 | .151 | .230 | .133 | .440 | .400 | .601 | .693 | .413 | .386 | .238 | .089 |
| | 4 PM | .165 | .173 | .204 | .133 | .280 | .189 | .389 . | . 482 | .364 | . 378 | .238 | .125 |
| | 5 PM | .181 | .242 | .239 | - | .087 | | .159 | .175 | .440 | . 362 | .232 | .170 |
| | 6 PM | . 207 | .332 | . 324 | .133 | - | - | | .070 | .201 | .291 | .273 | .254 |
| 6 PM - | 7 PM | | .427 | .375 | . 1.55 | | - | _ | | .109 | .165 | .350 | .297 |
| | 8 PM | | .534 | .325 | - | - | - | | - | - | .024 | .345 | . 406 |
| 8 PM - | 9 PM | .491 | .337 | .070 | - | _ | - | - | _ | <u>-</u> | - | .262 | .410 |
| | 9 PM | .515 .321 | .065 | - | - | · - | • | • 🗕 | - | - | - | .057 | .279 |

WEEKEND DAYS

| | | | | | Proportio | n of Boat | s Fishing | by Hour | | | | |
|---------------|-------|------|-------|------------|-----------|-----------|-----------|---------|-------|-------|-------|-------|
| | JUL . | AUG | SEP | <u>007</u> | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before 7 AM | .077 | .131 | .056 | .016 | .009 | - | - | - | .066 | .050 | .105 | .121 |
| 7 AM - 8 AM | • • • | .174 | .113 | .031 | .036 | .039 | .043 | .075 | .261 | .080 | .184 | .244 |
| 8 AM - 9 AM | .123 | .125 | .169 | .082 | .113 | .102 | .152 | .184 | . 394 | .169 | .251 | .319 |
| 9 AM - 10 AM | .120 | .081 | .164 | .097 | .212 | . 391 | .312 | .301 | .509 | .280 | . 293 | .282 |
| 10 AM - 11 AM | .115 | .073 | .220 | 184 | 257 | .430 | .468 | .410 | .554 | . 360 | . 314 | .262 |
| 11 AM - 12 PM | .108 | .076 | .204 | .300 | .401 | .477 | .569 | .481 | . 560 | .410 | .370 | .238 |
| 12 PM - 1 PM | .143 | .097 | .236 | .476 | . 505 | .570 | .612 | . 566 | .498 | .444 | .356 | .235 |
| 1 PM - 2 PM | .168 | .121 | .285 | .632 | .649 | .516 | .625 | . 587 | .443 | .427 | . 333 | .212 |
| 2 PM - 3 PM | .220 | .160 | .290 | .766 | .662 | .391 | .569 | .551 | .303 | .415 | . 300 | .201 |
| 3 PM - 4 PM | . 303 | .185 | . 380 | .700 | .450 | . 305 | .426 | .361 | .287 | .443 | . 343 | . 205 |
| 4 PM - 5 PM | .294 | .181 | .451 | .642 | .221 | .141 | .158 | .226 | .122 | .411 | . 308 | .185 |
| 5 PM - 6 PM | .331 | .203 | .386 | .572 | - | - | | 044 | .017 | .300 | . 304 | .157 |
| 6 PM - 7 PM | | .335 | .428 | .257 | - | - | - | - | .010 | .150 | .280 | .171 |
| 7 PM - 8 PM | | .480 | .313 | .093 | - | - | - | - | - | .054 | .213 | .218 |
| 8 PM - 9 PM | | .387 | .088 | - | - | - | - | | - | - | .121 | .232 |
| After 9 PM | | .132 | - | - | - | - | - | - | - | | .037 | .114 |

.

^a From May through October times are PDT. For other months times are PST.

^b Profile based on less than 20 interviews.

^c Profile based on 20 - 40 interviews. All other profiles are based on more than 40 interviews.

 \Box Π $\left[\right]$ Π \prod Π Γ

Π

Ţ

H-5

. .

TABLE H-4: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, QUALICUM AREA

| MIDWEEK DAYS | | | • | · · · | Proportio | n of Boat | s Fishino | by Hour | • | | | |
|----------------|--------|-------|-------|-------|-----------|-----------|-----------|---------|-------|------|------|-------|
| L | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before 7 AM | .213 | .197 | .145 | - | - | - | - | - | .016 | .047 | .206 | .350 |
| 🏴 7 АМ – 8 АМ | .281 | .336 | .300 | .253 | .033 | - | .034 | - ' | .109 | .102 | .351 | .465 |
| 8 AM - 9 AM | . 296 | .401 | . 308 | .306 | .227 | .056 | .216 | .105 | .217 | .165 | .397 | . 395 |
| 💭 9 AM - 10 AM | .234 | .352 | .281 | . 405 | .493 | .367 | .351 | .175 | . 353 | .220 | .376 | . 344 |
| 10 AM - 11 AM | .169 | .289 | .281 | . 328 | . 553 | . 367 | .466 | .342 | .467 | .378 | .334 | .239 |
| 11 AM - 12 PM | .117 - | .208 | .168 | .338. | .460 | .556 | .596 | .482 | .429 | .354 | .270 | .185 |
| 12 PM - 1 PM | .108 | .154 | .188 | .120 | . 493 | .611 | .601 | .623 | .391 | .346 | .196 | .121 |
| 1 PM - 2 PM | .108 | .154 | .123 | .102 | .487 | .611 | .615 | .693 | .429 | .339 | .176 | .045 |
| 2 PM - 3 PM | .131 | .145 | .114 | .159 | .440 | . 400 | .601 | .693 | .413 | .386 | .147 | .073 |
| 3 PM - 4 PM | .186 | .184 | .115 | .240 | .280 | .189 | .389 | .482 | .364 | .378 | .137 | .091 |
| 4 PM - 5 PM | .236 | .195 | .187 | .254 | .087 | - | .159 | .175 | .440 | .362 | .148 | .159 |
| 5 PM - 6 PM | . 295 | .224 | .280 | .254 | - | - | - | .070 | .201 | .291 | .193 | .180 |
| 6 PM - 7 PM | .368 | .317 | . 399 | .226 | . • 🛥 | ÷ | - | - | .109 | .165 | .242 | .182 |
| 7 PM - 8 PM | . 361 | . 308 | .297 | - | - | - | - | - | - | .024 | .203 | .190 |
| 8 PM - 9 PM | . 224 | .155 | .048 | - | - | - | - | - | - | - | .112 | .113 |
| After 9 PM | .049 | .004 | - | - | - | - | - | - | - ' | - | .008 | .072 |

WEEKEND DAYS

| | | | | | Proportio | n of Boat | s Fishing | by Hour | | | | |
|-----------------|-------|-------|-------|-------|-----------|------------|-----------|---------|-------|------|-------|-------|
| -5- | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before 7 AM | .256 | .147 | .200 | .030 | .009 | - ' | - | | .066 | .050 | .266 | . 372 |
| 7 AM - 8 AM | .323 | .236 | .328 | .306 | .036 | .039 | .043 | .075 | .261 | .080 | .387 | .519 |
| 8 AM - 9 AM | . 319 | . 294 | . 391 | .398 | .113 | .102 | .152 | .184 | .394 | .169 | .453 | .511 |
| - 9 AM - 10 AM | .277 | .254 | .368 | .409 | .212 | .391 | .312 | .301 | . 509 | .280 | . 452 | . 398 |
| 10 AM - 11 AM | .231 | .203 | .295 | . 356 | .257 | .430 | .468 | .410 | .554 | .360 | .398 | . 280 |
| 🖿 11 AM - 12 PM | .192 | .165 | ,226 | .321 | .401 | .477 | .569 | .481 | .560 | .410 | .286 | .187 |
| 12 PM - 1 PM | .183 | .147 | .188 | .350 | . 505 | .570 | .612 | 566 | .498 | .444 | .195 | .087 |
| 1 PM - 2 PM | .159 | .152 | .162 | .366 | .649 | .516 | .625 | .587 | .443 | .427 | .166 | .051 |
| 2 PM - 3 PM | .170 | .149 | .155 | . 356 | .662 | .391 | .569 | .551 | .303 | .415 | .131 | .092 |
| 3 PM - 4 PM | .206 | .204 | 204 | .320 | .450 | .305 | .426 | .361 | .287 | .443 | .124 | .113 |
| 4 PM - 5 PM | .231 | .250 | .245 | .295 | .221 | .141 | .158 | .226 | .122 | .411 | .112 | .135 |
| 5 PM - 6 PM | .318 | . 326 | .356 | .160 | - | - | - | .044 | .017 | .300 | .101 | .148 |
| 6 PM - 7 PM | .356 | .376 | .356 | .045 | - | - | - | - | .010 | .150 | .132 | .185 |
| 7 PM - 8 PM | . 303 | .355 | .244 | · _ | - | - | - | - | | .054 | .114 | .187 |
| ■ 8 PM - 9 PM | .207 | .187 | .029 | - | - | - | - | - | - | - | .061 | .161 |
| After 9 PM | .035 | .031 | • | - | - | - | . 🕳 | - | - | - | | .040 |

From May through October times are PDT. For other months times are PST.

^b All profiles are based on more than 40 interviews.

IJ

1

| |

н-6

TABLE H-5: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, NANAIMO REGION

| | | | | | | | | | | | 149.0 | | | |
|---------|----|----|-------|------|-------|-------|------|------------|------------|-------|-------|------|------|--------------|
| • | | | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before | 7 | AM | .158 | .173 | 104 | .013 | | - | - | - | .016 | .047 | .095 | .106 |
| 7 AM - | 8 | AM | .229 | .261 | .158 | .142 | .033 | - | .034 | | .109 | .102 | .190 | . 196 |
| 8 AM - | 9 | AM | .297 | .278 | .219 | .290 | .227 | .056 | .216 | .105 | .217 | .165 | .238 | .248 |
| , | 10 | AM | . 309 | .248 | .271 | .358 | .493 | .367 | .351 | .175 | . 353 | .220 | .333 | . 289 |
| 10 AM - | 11 | AM | .289 | .224 | .290 | . 325 | .553 | .367 | .466 | .342 | .467 | .378 | .381 | .247 |
| 11 AM - | 12 | PM | .255 | .222 | .285 | .263 | .460 | .556 | .596 | .482 | .429 | .354 | .429 | .246 |
| 12 PM - | 1 | PM | .203 | .198 | .288 | .206 | .493 | .611 | .601 | . 623 | .391 | .346 | .238 | .226 |
| 1 PM - | _ | PM | .190 | .194 | .231 | .239 | .487 | .611 | .615 | .693 | .429 | .339 | .238 | .206 |
| 2 PM - | 3 | PM | .178 | 203 | .191 | .246 | .440 | .400 | .601 | .693 | .413 | .386 | .190 | .190 |
| 3 PM - | 4 | PM | .159 | .213 | .185 | .310 | .280 | .189 | .389 | . 482 | .364 | .378 | .143 | .179 |
| 4 PM - | 5 | PM | .158 | .223 | .185 | .336 | .087 | - | .159 | .175 | .440 | .362 | .238 | . 208 |
| 5 PM - | 6 | PM | .178 | .239 | . 282 | .319 | - | - ' | - | .070 | .201 | .291 | .238 | .232 |
| 6 PM - | | PM | .227 | .262 | .285 | .159 | . 🗕 | - | - | - | .ì09 | .165 | .238 | . 293 |
| 7 PM - | 8 | PM | .253 | .284 | .202 | - | - | - · | - | - | - | .024 | .238 | . 359 |
| 8 PM - | | PM | .200 | .167 | .017 | - | - | - | · - | - | - | - | .048 | .301 |
| After | - | PM | .065 | .009 | - | - | - | - | - | - | - | - | - | .092 |

| | WEEKEND DAYSa | • | | | | | | | | | ' | | |
|---|---------------|-------|------|-------|-------|-----------|----------------|-----------|---------|-------|-------|------|-------|
| | | | | | | Proportio | n of Boat | s Fishing | by Hour | | | | |
| | | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| | Before 7 AM | .240 | .178 | .068 | 021 | .009 | · · - · | - | | .066 | . 050 | .150 | .231 |
| | 7 AM - 8 AM | .314 | .262 | .185 | .220 | .036 | .039 | .043 | .075 | .261 | .080 | .263 | . 325 |
| | 8 AM - 9 AM | . 369 | .317 | . 284 | . 393 | .113 | .102 | .152 | .184 | .394 | .169 | .300 | .413 |
| | 9 AM - 10 AM | .327 | .310 | .300 | .416 | .212 | . 391 | .312 | .301 | . 509 | .280 | .438 | .371 |
| | 10 AM - 11 AM | .323 | .295 | . 309 | .416 | .257 | .430 | . 468 | .410 | .554 | .360 | .475 | .325 |
| | 11 AM - 12 PM | . 300 | .277 | .331 | .410 | .401 | .477 | .569 | .481 | .560 | .410 | .588 | .291 |
| | 12 PM - 1 PM | .269 | .237 | .350 | .418 | . 505 | .570 | .612 | .566 | . 498 | . 444 | .588 | .193 |
| | 1 PM - 2 PM | .243 | .192 | . 347 | . 430 | .649 | .516 | .625 | .587 | .443 | .427 | .488 | .190 |
| | 2 PM - 3 PM | .212 | .250 | .406 | .385 | .662 | .391 | . 569 | .551 | .303 | .415 | .475 | . 221 |
| | 3 PM - 4 PM | .213 | .260 | . 366 | .339 | .450 | .305 | .426 | .361 | .287 | .443 | .400 | .243 |
| | 4 PM - 5 PM | .189 | .203 | .400 | .233 | .221 | .141 | .158 | . 226 | .122 | .411 | .338 | .238 |
| | 5 PM - 6 PM | 180 | .273 | .358 | .121 | - , | - | - | .044 | .017 | . 300 | .200 | .176 |
| | 6 PM - 7 PM | .201 | .263 | .286 | .030 | | - | - | - | .010 | .150 | .138 | .217 |
| | 7 PM - 8 PM | .203 | .211 | .176 | - | - | - | - | - | - | .054 | .088 | .183 |
| ł | 8 PM - 9 PM | .135 | .109 | .010 | - | - | - | - | - | - | - | .025 | .146 |
| | After 9 PM | .024 | .003 | - | ÷ | - | - | - | - | - | - | - | .042 |
| | ALLEL J PA | | •. | | | | | | | | | | |

^a From May through October times are PDT. For other months times are PST.

^b Profile based on 20-40 interviews. All other profiles are based on more than 40 interviews.

| MIDWEEX DAYS ^a | | | | ~ | Proportion | n of Boats | | Fishing by Hour ^b | _ | | | |
|---------------------------|-------|-------|------------------|-------|------------|------------|--------------------------|------------------------------|-----------|-------|-------|-------|
| | ID: | AUG | SEP | 8 | NON | | | E | MAR | APR | MAY | Ŗ |
| ٢ | .200 | .210 | .126 | .078 | .018 | , | î | • | .070 | .135 | .338 | . 235 |
| 7 AM - 8 AM | .282 | .302 | .206 | .173 | .128 | .121 | .058 | .105 | .178 | .166 | 399 | LOE. |
| | .322 | .341 | .279 | . 268 | . 248 | . 383 | .242 | .279 | .267 | .265 | . 373 | 304 |
| AM - 10 | .346 | .346 | .354 | .304 | .376 | 。473 | .384 | .474 | .425 | .462 | .440 | .270 |
| H - H | .317 | .271 | .320 | 304 | .496 | .559 | .501 | .553 | .457 | . 538 | .458 | .319 |
| AM - 12 | .281 | .207 | .325 | .301 | .602 | .543 | . 551 | . 605 | .486 | .561 | .401 | .314 |
| | .200 | .164 | .314 | . 225 | .493 | .418 | . 518 | . 568 | .473 | .482 | .334 | .246 |
| PM - 2 | .161 | 171. | .324 | .219 | .442 | .410 | .501 | .553 | .400 | .289 | .280 | .217 |
| E - Md | .184 | .161 | .306 | .170 | .412 | .277 | .348 | .356 | .295 | .305 | 171. | .235 |
| | .156 | .172 | . 293 | .183 | .245 | .156 | .207 | 112. | .168 | 4173 | .137 | .210 |
| PX - 5 | .150 | .186 | .244 | . 297 | . 018 | ı | .045 | .063 | -127 | 660. | .108 | .163 |
| PM - 6 | .195 | .210 | .243 | .275 | • | 1 | 1 | ı | . 022 | .027 | .115 | ä |
| PM - 7 | . 201 | .244 | .386 | .199 | ı | 1 | ı | • | ı | E10. | :165 | . 23 |
| 7 PM - 8 PM | .287 | .283 | .250 | ı | | 9 | ı | 1 | 1 | ł | .128 | 283 |
| 8 PM - 9 PM | . 234 | .176 | . 007 | ŧ | ı | ı | • | 1 | ı | ı | .074 | .217 |
| | .067 | E10. | ı | ľ | ı | ı | I, | ŧ | ı | 1 | ſ | ş |
| WEEKEND DAYS ^a | | | | | | | | • | | | | |
| CENEND DAIS | | • | | 1 | Proportion | | of Boats Fishing by Hour | by Rour b | | | | |
| | 削 | | 2 2 2 2 | Į | NON | Sad | JAN | | KA | RTA | MAY | ĝ |
| Before 7 AM | .268 | .305 | .202 | .137 | . 046 | 900 | .008 | .025 | .095 | .169 | .304 | .257 |
| 60 | .334 | .402 | .358 | .453 | .202 | .131 | 141. | .176 | .272 | .316 | 165. | .386 |
| B AM - 9 AM | .400 | .449 | .425 | .622 | 304 | .369 | .415 | .368 | .403 | .454 | .461 | .470 |
| AM - 10 | .437 | .467 | .437 | .662 | .420 | .499 | .613 | .528 | .536 | .527 | .510 | ្តដ្ឋ |
| 11 - W | .439 | .435 | .410 | .623 | . 534 | . 653 | .705 | .606 | .578 | . 488 | .507 | .467 |
| 11 AM - 12 PM | .374 | .335 | .337 | . 555 | . 464 | .649 | .642 | .577 | . 555 | .429 | .440 | .39 |
| PM - 1. | ,306 | .261 | . 292 | .363 | .428 | .532 | 499 | .494 | .423 | .358 | .402 | , 368 |
| PM - 2 | .261 | - 233 | .290 | .270 | .454 | .403 | .396 | .431 | .337 | .312 | .343 | .278 |
| PM - 3 | 512. | 512. | -310 | .245 | .436 | 455. | . 323 | .348 | .272 | . 278 | .366 | .235 |
| 3 PM - 4 PM | .179 | .214 | . 280 | .193 | 302 | .215 | .180 | .244 | .219 | .216 | 313 | . 236 |
| PM - 5 | .162 | .187 | .290 | .165 | .078 | .035 | .027 | .131 | .134 | .158 | .194 | .183 |
| PM = 6 | .163 | .185 | 306 | EII. | • | ı | • | -021 | .064 | .120 | 171. | .135 |
| | .157 | .162 | . 222 | .056 | ł | | 1 | • | .005 | .066 | .124 | .100 |
| PM - 8 | . To. | 767- | . 045 | | 1 | ı | ı | • | 1 | .033 | . 065 | 114 |
| WI 6 - WI 8 | .126 | .062 | .003 | ľ | 1 | ı | ł | • | ł | ı | .031 | 160 |
| After 9 PM | | 900 | ı | I | • | ı | • | ı | ı | ı | • | , 029 |
| | | | | | | | | | | | | |

LL Prolites are based on more than 40 interviews.

Н-7

TABLE H-7: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, VICTORIA REGION

| MIDWEEK DAYS ^a | | | | | | | | . 1 | D | | | |
|---------------------------|------|-------|-------|--|-----------|--|-----------|------|-------|------|-------|-------|
| | | 1110 | 0.000 | the state of the s | Proportio | and the second s | s Fishing | | H3 D | 100 | VAV | |
| | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | 2 |
| Before 7 AM | .189 | .123 | .233 | .025 | .018 | · 🚅 | - | - | .070 | .135 | .125 | .2 |
| 7 AM - 8 AM | .273 | .200 | .369 | .206 | .128 | .121 | .058 | .105 | .178 | .166 | .231 | .4 |
| 8 AM - 9 AM | .322 | .289 | .438 | .361 | .248 | . 383 | .242 | .279 | .267 | .265 | .316 | -,4 |
| 9 AM - 10 AM | .345 | .348 | .475 | .448 | . 376 | .473 | . 384 | .474 | .425 | .462 | .418 | - 4 |
| 10 AM - 11 AM | .351 | . 399 | .445 | .517 | .496 | . 559 | .501 | .553 | .457 | .538 | . 474 | • |
| 11 AM - 12 PM | ,350 | .421 | .412 | .500 | .602 | .543 | .551 | .605 | . 486 | .561 | . 427 | • |
| 2 PM - 1 PM | .288 | . 334 | .291 | .425 | . 493 | .418 | .518 | .568 | .473 | .482 | .352 | · . • |
| 1 PM - 2 PM | .257 | .307 | .266 | .386 | .442 | .410 | .501 | .553 | - 400 | .289 | - 308 | |
| 2 PM - 3 PM | .227 | .278 | .245 | . 369 | .412 | .277 | . 348 | .358 | . 295 | .305 | .297 | • |
| 3 PM - 4 PM | .199 | .230 | .238 | .293 | .245 | .156 | .207 | .211 | .168 | .173 | .260 | - |
| 4 PM - 5 PM | .163 | .181 | .234 | .224 | .018 | - | .045 | .063 | .127 | .099 | -263 | |
| 5 PM - 6 PM | .152 | .153 | .206 | .221 | - | · _ | - | - | .022 | .027 | . 234 | • |
| 6 PM - 7 PM | .144 | .162 | .174 | .147 | - | - | - | `- | - | .013 | .194 | • |
| 7 PM - 8 PM | .161 | .170 | .078 | .004 | - | - | - | - | - | - | .144 | |
| 8 PM - 9 PM | .125 | .073 | - | | · - | - | - | - | - ' | | .067 | |
| After 9 PM | .029 | - | - | - | - | - | - | · - | - | • · | .010 | |

WEEKEND DAYS

Π

| | | | | · | Proportio | n of Boat | s Fishing | by Hour | | | | |
|---------------|---------|-------|------|-------|-----------|-----------|-----------|---------|---------|------|-------|---------------|
| | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before 7 AM | . 211 . | .200 | .310 | .076 | .046 | .006 | .009 | .025 | . 095 | .169 | .227 | . 324 |
| 7 AM - 8 AM | .333 | .317 | .511 | .272 | .202 | .131 | .151 | .176 | .272 | .316 | .369 | . 430 |
| 8 AM - 9 AM | .404 | .403 | .576 | . 391 | .304 | .369 | .429 | . 368 | .403 | .454 | .468 | . 488 |
| 9 AM - 10 AM | .432 | .446 | .600 | .475 | .420 | .499 | .612 | .528 | .536 | .527 | .501 | .498 |
| 10 AM - 11 AM | .421 | .450 | .576 | . 490 | .534 | . 653 | .704 | .606 | , , 578 | .488 | .483 | . 453 |
| 11 AM - 12 PM | .376 | .404 | .486 | . 498 | . 464 | .649 | .630 | .577 | .555 | .429 | . 393 | .385 |
| 12 PM - 1 PM | .286 | .382 | .402 | .441 | . 428 | .532 | . 486 | . 494 | .423 | .358 | .291 | .326 |
| 1 PM - 2 PM | .227 | .347 | .311 | .418 | .454 | .403 | .382 | .431 | .337 | .312 | .250 | . 30 0 |
| 2 PM - 3 PM | .209 | . 303 | .249 | . 390 | .436 | .334 | . 308 | . 348 | .272 | .278 | .250 | . 234 |
| 3 PM - 4 PM | .186 | .269 | .174 | -294 | .302 | .215 | .173 | .244 | .219 | .216 | .231 | .220 |
| 4 PM - 5 PM | .160 | .214 | .173 | .243 | .078 | .035 | .030 | .131 | .134 | .158 | . 204 | ,205 |
| 5 PM - 6 PM | .146 | .177 | .137 | .153 | - | - | - | .021 | .064 | .120 | .169 | .179 |
| 6 PM - 7 PM | .135 | .170 | .078 | .063 | - | - | - | · _ | .005 | .066 | .122 | .134 |
| 7 PM - 8 PM | .112 | .143 | .012 | .006 | - | - | - | | - | .033 | .081 | .118 |
| 8 PM - 9 PM | .064 | .060 | - | - | - | - | - | · _ | - | - | .035 | .068 |
| After 9 PM | .011 | .006 | - | - | - | - | - | - | · / | - | .002 | - 008 |

a From May through October times are PDT. For other months times are PST.

^b All profiles are based on more than 40 interviews.

٠

ъ

н-9

TABLE H-8: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, VANCOUVER REGION

| | | | | | | Proportic | | S FISHING | by Hour | | | | |
|------------|----|------|------|-------|-------------|-----------|------|------------|---------|------------|------|-------|-------------------|
| | | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | 301 |
| Before 7 | ма | .156 | .206 | .112 | .027 | - | - | - | - | .017 | .036 | .112 | .151 |
| 7 AM - 8 | AM | .268 | .301 | .197 | .097 | - | .152 | .029 | .059 | .095 | .108 | -208 | . 267 |
| 8 AM - 9 | | .320 | .376 | .281 | .340 | .250 | .364 | . 200 | .176 | . 259 | .361 | .376, | 309 |
| 9 AM - 10 | AM | .381 | .442 | .372 | .490 | .558 | .652 | .386 | .412 | .414 | .506 | .475 | .385 |
| 10 AM - 11 | | .438 | .448 | .458 | .648 | .808 | .803 | . 557 | .647 | . 526 | .723 | .542 | .503 |
| 11 AM - 12 | | .489 | .477 | .505 | .695 | .769 | .909 | .686 | .765 | .707 | .735 | .610 | .473 |
| 12 PM - 1 | | .485 | .438 | . 530 | .742 | .731 | .985 | .729 | .843 | .595 | .747 | .685 | .518 |
| 1 PM - 2 | | .416 | .434 | . 540 | .712 | .654 | .879 | .586 | .862 | .672 | .602 | .584 | .501 |
| 2 PM - 3 | | .395 | .382 | .442 | .609 | .557 | .700 | .514 | .686 | .629 | .400 | .537 | . 537 |
| 3 PM - 4 | _ | .352 | .314 | .354 | .464 | .365 | .288 | .300 | .431 | .517 | .337 | .447 | .450 |
| 4 PM - 5 | | .276 | .275 | .344 | .185 | . 🛥 | - | .100 | .157 | .405 | .145 | .354 | .328 |
| 5 PM - 6 | - | .232 | .203 | .320 | .036 | - | - | - | - | .147 | .048 | .202 | .230 |
| | PM | .155 | .154 | .240 | - | | - | - | - | * P | - | .146 | .166 |
| 7 PM - 8 | | .088 | .102 | .122 | | - | - | - | - | - | | .045 | .0 9 1 |
| 8 PM - 9 | | .040 | .053 | .013 | - | - | - | - | - | - | - | - | .039 |
| After 9 | | | .003 | - | - | - | - | · - | - | - | - | - | .005 |

| WEEKEND DAYS | | | | | Proportio | n of Boat | s Fishing | by Rour | | | | |
|---------------|-------|-------|-------|-------|-----------|-----------|-----------|---------|------|------|-------|-------|
| , | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | ງມາ |
| Before 7 AM | .268 | .213 | .189 | .063 | - | | - | 1010 | .050 | .150 | .175 | .267 |
| 7 AM - 8 AM | .377 | .386 | .334 | .188 | .025 | .071 | .043 | .040 | .182 | .311 | .311 | .355 |
| 8 AM - 9 AM | .465 | . 485 | .479 | .458 | .210 | .506 | .406 | .286 | .351 | .382 | .435 | .478 |
| 9 AM - 10 AM | .501 | .536 | . 546 | . 564 | .383 | .729 | .697 | .568 | .541 | .482 | .530 | .601 |
| 10 AM - 11 AM | . 528 | . 562 | .611 | .646 | . 593 | -800 | .839 | .789 | .657 | .607 | . 590 | , 632 |
| 11 AM - 12 PM | .528 | .518 | .634 | .634 | . ,710 | .788 | .827 | .869 | .669 | .668 | .635 | .651 |
| 12 PM - 1 PM | . 503 | .469 | . 554 | .585 | .790 | .612 | .737 | .794 | .694 | .625 | .610 | .614 |
| 1 PM - 2 PM | .443 | .403 | .487 | .556 | .660 | .400 | .601 | .704 - | .628 | .618 | . 526 | .497 |
| 2 PM - 3 PM | .395 | .370 | .418 | .450 | .500 | .259 | .427 | .608 | .566 | .571 | .470 | .451 |
| 3 PM - 4 PM | .285 | .313 | .355 | .354 | .241 | .176 | .204 | .397 | .430 | .486 | .353 | .356 |
| 4 PM - 5 PM | .215 | .256 | .273 | .184 | .086 | - | .015 | .196 | .236 | .382 | .236 | . 248 |
| 5 PM - 6 PM | .150 | - 191 | .237 | .065 | - | - | - | | .091 | .196 | .161 | .143 |
| 6 PM7 PM | .098 | .115 | .164 | .020 | - | - | - | • • | · 🗕 | .104 | . 098 | .069 |
| 7 PM - 8 PM | .052 | .061 | .079 | - | - ' | - | - | - | - | .054 | .031 | .033 |
| 8 PM - 9 PM | .012 | .023 | .017 | - | | - | - | - | _ | .014 | .005 | . 005 |
| After 9 PM | - | .001 | - | - | - | - | - | - | ·_ | - | - | • |

a From May through October times are PDT. For other months times are PST.

^b Profile based on 20-40 interviews. All other profiles are based on more than 40 interviews.

[

÷ .

H-11

-TABLE H-10: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, SOUTH ARM OF FRASER RIVER REGION

| | | | | | Proportio | n of Boat | s Fishing | by Hour | | | | |
|---------------|--------|-------|-----|-----|-----------|-----------|-----------|---------|-----|-----|-----|---|
| , · | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | |
| Before 7 AM | . 213 | .147 | | | | | | | | | | |
| 7 AM - 8 AM | .280 | .192 | | | | | | | | | | |
| 8 AM - 9 AM | .402 · | .204 | | | | | | | | | | |
| 9 AM - 10 AM | .421 | . 280 | | | | | | | | | | |
| 10 AM - 11 AM | .543 | .437 | , | | | | | | | | | |
| 11 AM - 12 PM | . 604 | .463 | | | | | | | | | | |
| 12 PM - 1 PM | . 634 | . 534 | | | | | | | | | | |
| 1 PM 2 PM | . 640 | .477 | | | | | | | | | , | |
| 2 PM - 3 PM | .604 | .418 | | | | | | | | | | |
| 3 PM - 4 PM | . 561 | . 363 | | | | | | | | | | 1 |
| 4 PM - 5 PM | .463 | .330 | | | | | | | | | | |
| 5 PM - 6 PM | .220 | .273 | | | | | | | | | | |
| 6 PM - 7 PM | .146 | .159 | | | | | | | | | | |
| 7 PM - 8 PM | .098 | .069 | | | • | | | | | | | |
| 8 PM - 9 PM | .024 | . 024 | ۰. | | | | | | | | | |
| After 9 PM | - | - | | | | | | | | | | |

WEEKEND DAYS

·

·

a second

| | | | | | Proportion | <u>n of Boat</u> | s Fishing | by Hour | | | | |
|---------------|-------|-------|-----|-------|------------|------------------|-----------|---------|-----|-----|-----|-----|
| | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| Before 7 AM | .168 | .129 | • | | | | | • | - | | | |
| 7 AM - 8 AM | .205 | . 228 | | | | | | · • | | | | |
| 8 AM - 9 AM | .316 | .260 | | | | | | | | | | |
| 9 AM - 10 AM | .386 | .320 | | | | | | | | | | |
| 10 AM - 11 AM | .488 | .397 | 2 | | | | | • | | | | |
| 11 AM - 12 PM | . 601 | .402 | | | | · - | · . | | | | | |
| 12 PM - 1 PM | . 601 | .399 | | | · · | | | | | | | |
| 1 PM - 2 PM | .617 | .440 | | | | | | | | | | |
| 2 PM - 3 PM | .641 | .430 | | ~ | | | | | | | | |
| 3 PM - 4 PM | . 573 | .410 | • | v · | | | • | • | | | | |
| 4 PM - 5 PM | 488 | .407 | | | | | | | | | | |
| | .275 | .359 | | | | | | | | | | |
| | .157 | .217 | | | | | | | | | | |
| 6 PM - 7 PM | .109 | .118 | | · . · | | | · · | | | | | , |
| 7 PM - 8 PM | | | | | | | | ~ | | | | |
| 8 PM - 9 PM | .033 | .008 | | | | | | | | | | |
| After Q DM | - | - | • | | | | | | | | | |

a From May through October times are PDT. For other months times are PST.

^b All profiles are based on more than 40 interviews.

H-12

TABLE H-1]: DAILY FISHING PATTERN BY MONTH AND DAY TYPE, CAMPBELL RIVER GUIDED OPERATIONS

 \square

| | MIDWEEK DAYS | | | | | Proportion | n of Boat | s Pishing | by Hour | • | | • | • |
|------------------|---------------|-------|--------|-----|-----|------------|-----------|-----------|---------|-----|-----|-------|--------|
| <i>-</i> لــــر | | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAYD | JUN |
| F | Before 7 AM | .302 | .459 | | | | | | | | | .062 | .182 |
| | 7 AM – 8 AM | .260 | .474 | | | | | | | | | -062 | .309 |
| | 8 AM - 9 AM | . 248 | . 245 | | | | | | | | | .062 | . 269 |
| | 9 AM - 10 AM | .194 | .141 | | | | | | | | | .094 | .144 |
| | 10 AM - 11 AM | .176 | .117 | | | | | | | | | .187 | .109 |
| | 11 AM - 12 PM | .137 | .064 | | · · | | | | | | 1 | .187 | .073 |
| | 12 PM - 1 PM | .147 | .083 . | | | | | | | | | .133 | .045 |
| - | 1 PM - 2 PM | .109 | .102 | | | | | | | | | .164 | .055 |
| | 2 PM - 3 PM | .117 | .174 | | | | | | · , | | | .266 | .109 |
| | 3 PM - 4 PM | .061 | .260 | | | | | | | | - | .343 | .200 |
| [[*]] | 4 PM - 5 PM | .084 | . 204 | | | | | | | | | .343 | .345 |
| L., | 5 PM - 6 PM | .083 | . 204 | | | | | | | | | .315 | .327 |
| | 6 PM - 7 PM | .194 | .212 | | | | | | | | | . 556 | . 218 |
| _ | 7 PM - 8 PM | . 266 | .223 | | | | | | | | | .392 | .164 |
| | 8 PM - 9 PM | .277 | .192 | | | | | | | | | .395 | .182 - |
| | After 9 PM | .205 | .082 | | | | | | | | | .139 | .182 |
| | | | | | | | | | | | | | |

| | WEEKEND DAYS | | • | • | | | | | | | |
|----|-----------------|----------|-------|--------------|-------------------|-----|------|----------------|-------------|------|------|
|) | | JUL AU | G SEP | <u>T T O</u> | Proportion NOV | DEC | JAN | by Hour FEB | MAR APR | MAY | TIN |
| | | | | | | | Unit | | inter inter | | JUN |
| ' | Before 7 AM | .351 .32 | 29 | | | | | | • | .270 | .306 |
| ļ | 7 AM - 8 AM 🕚 | .352 .49 | 96 | | | | | • | | .399 | .484 |
| , | 8 AM - 9 AM . | .245 .52 | 29 | | | | | | | .448 | .459 |
| | 9 AM - 10 AM . | .196 .38 | | | | | | • | | .384 | .374 |
| l. | 10 AM - 11 AM | .201 .29 | 59 - | | | | | | | .384 | .310 |
| | 11 AM - 12 PM | .154 .18 | 33 | | | | | | | .358 | .255 |
| J | 12 PM - 1 PM - | .118 .13 | 50 | | | | | | • . | .195 | .085 |
| | 1 PM - 2 PM - | .112 .13 | 36 | | | | • | | , | .334 | - |
| | 2 PM - 3 PM - | .112 .14 | | | | | | | | .263 | .040 |
| 1 | 3 PM - 4 PM | .100 .10 | | | | | | | · · | .213 | .119 |
| | | .066 .14 | 19 | | | | | - | | .315 | .239 |
| ,ر | • • • • • • • | .078 .14 | | • • | | | | | | .318 | .239 |
| | 6 PM - 7 PM | .138 .18 | 38 | | | | | | | .267 | .239 |
| • | 7 PM - 8 PM - | .213 .20 | 06 | | | | | | | .147 | .127 |
| | • • • • • • • • | .252 .18 | | • | | | | | | .073 | ,048 |
| 5 | After 9 PM - | .201 .02 | 29 | | | | | | | - | • |

a From May through October times are PDT. For other months times are PST.

^b Profile based on 20-40 interviews. All other profiles are based on more than 40 interviews.

The three basic information components underlying the methodology for estimating sport fishing salmon catch and effort are "snapshot" sport fishing boat counts (Appendix D), daily temporal patterns of fishing activity (Appendix H), and salmon catch per unit effort or boat trip (Appendix G). In this appendix we elaborate on the methodology discussion of Section 4 of the text and provide a detailed example of the calculations.

CATCH AND EFFORT ESTIMATION

Methodology

Following is a step by step outline of the methodology for integrating the results of the creel and overflights surveys in generating sport fishery statistics.

- Step 1: The key step in the methodology is the mapping of Statistical sub-Areas from the overflight survey to one or more of the 23 grouped landing sites from the creel survey. This mapping was based on information concerning local areas fished discerned from the charts on the reverse side of the completed creel survey questionnaires. The creel survey was not conducted in all 23 grouped landing site areas for each of the 12 months and consequently this affected the spectrum of potential mappings. The actual mappings employed for each month are given in the tables at the end of this appendix.
- Step 2: Nine broad "Major Regions", representing aggregations of the 23 grouped landing site areas, were identified to be used in calculating temporal fishing patterns by month and day type on a broad area basis.¹ The

¹In addition, a tenth region, Campbell River Guided (a subset of Campbell River), was formed.

rationale was that temporal fishing patterns would remain constant over a broader geographic area than would fishing success as embodied by catch per unit effort. The Major Regions were chosen in part on the following grouped landing site characteristics:

- . the areas were geographically contiguous, and hence had similar hours of daylight,
- . the fishing party clientele of the grouped landing site areas were somewhat similar (e.g., some areas were chosen on the fact that a large proportion of fishing activity was conducted by tourists), and
- . the Major Regions corresponded in the main to DFO district Fisheries Services office regions.

Daily temporal patterns of fishing activity were calculated for each of the nine Major Regions (according to equation (4) in Section 4.2.2 of the Main Report). These patterns are reported in Appendix H.

Step 3:

p 3: It was noted that each Statistical sub-Area was mapped to a grouped landing site. In turn, each grouped landing site belongs to a distinct Major Region. Consequently, each Statistical sub-Area is mapped to a Major Region, the temporal fishing pattern of which is used to convert the "snapshot" overflight boat count of the Statistical sub-Area to a total monthly fishing effort estimate for each day type (see equation (7) in the Main Report).

Step 4:

: The catch per boat trip of the mapped grouped landing site area (see Appendix G) was applied to the monthly Statistical sub-Area fishing effort estimate to estimate sub-Area total monthly catch for each day type (see equation (9) in the Main Report).

Step 5: The monthly estimates were summed over sub-Areas for each day type to generate total Statistical Area monthly estimates of catch and effort by day type.

Step 6: The monthly estimates for the two day types are added to estimate total monthly catch and effort.

In Table I-1 the detailed calculations for estimating salmon catch and effort in Statistical Area 14 for July, 1980 are presented. The daily catch and effort estimated by day type given in the table are multiplied by the number of like days in the month (Table I-2) to form monthly activity estimates by day type, and these two day type estimates are added to derive the total monthly estimates (given in Tables 4, 5, 6, and 7 in the Main Report).

Imputations

Two main imputations were necessary. The first relates to the non-coverage of the creel survey in certain areas (e.g., Stuart Island, the Gulf Islands, etc.). For those areas not covered, it was necessary to impute a daily fishing pattern and a catch per unit effort pattern. For the Stuart Island area (Statistical sub-Areas 13F through J) fishing and catch patterns of fishermen using guided facilities in the Campbell River area were used. For the Gulf Islands area of Statisitcal sub-Areas 18C and 18D, fishing and catch patterns of fishermen using the Crescent Beach marina in Delta were employed.²

⁴Landing sites in the Delta area were only sampled in the July through September period. In other months, these two sub-Areas were mapped to the Sidney grouped landing site area.

TABLE I-1: CALCULATION OF DAILY SPORT FISHING EFFORT AND SALMON CATCH BY MIDWEEK AND WEEKEND DAYS, STATISTICAL AREA 14, JULY 1980

| | | | Effort | | | | | | Ca | tch | | |
|-------------------------|------------------------------|---------------------------|-------------------------------|--------------------------------|---------------------------------|-----------------|-----------|-------|-------|---------------------------------------|-----------|-------|
| | Mapped | - | | | | | | Catch | | · · · · · · · · · · · · · · · · · · · | aily (| Catch |
| Statistical Sub-Area | Landing Site ^a | Major Region ^b | Time of Count ^C | Snapshot Count ^C | Coverage Factor ^d | Daily Effort | <u>C0</u> | CH | Total | <u><u>CO</u></u> | <u>CH</u> | Total |
| Midweek Day | | | | | | | | | | | | |
| 14K/L | CON | Campbell River | 1800-1900 | 51 | .313 | 163 | 2.04 | .17 | 2.28 | 332 | 28 | 371 |
| 14F/J | COC | Comox | 1800-1900 | 78 | .306 | 255 | 1.27 | .19 | 1.47 | 324 | 49 | 374 |
| 14C/D/E | QUN | Qualicum | 1700-1800 | 66 | .295 | 224 | 1.01 | .09 | 1.11 | 225 | 21 | 249 |
| 14A/B | QUS | Qualicum | 1700-1800 | 53 | .295 | . 180 | 1.18 | .48 | 1.69 | 212 | 86 | 304 |
| 14G/H | QUS | Qualicum | 1800-1900 | 33 | .368 | · 90 | 1.18 | .48 | 1.69 | 106 | 43 | 152 |
| All | | | | | | 912 | | | | 1199 | 227 | 1450 |
| Weekend Day | | | | | | | | | | | | |
| 14K/L | CON | Campbell River | 0800-0900 | 17 | .226 | 75 | 3.30 | .15 | 3.45 | 248 | 11 | 260 |
| 14F/J | COC | Comox | 0800-0900 | 21 | .123 | 171 | 1.16 | .24 | 1.41 | 197 | 41. | 240 |
| 14C/D/E | QUN | Qualicum | 0800-0900 | 90 | .319 | 282 | 1.35 | .18 | 1,55 | 381 | 52 | 436 |
| 14A/B | QUS | Qualicum | 0800-0900 | 61 | .319 | 191 | 1.46 | .49 | 1.96 | 279 | 94 | 374 |
| 14G/H | õus | Qualicum | 0900-1000 | 52 | .277 | 188 | 1.46 | .49 | 1,96 | 274 | 92 | 368 |
| All | | | | | | 907 | | | | 1379 | 290 | 1678 |

a Table I-4.

.

.

^bTable H-1.

^CTable D-1.

^dTables H-2, H-3, and H-4.

^eTable G-1.

H

| TABLE I-2: DAY TYPE CLASSIE | PICATION | | |
|-----------------------------|-----------------|-----------------|-------|
| | Midweek Days | Weekend Days | Total |
| July, 1980 | 24. | 11 | 35 |
| August, 1980 | 19 | 9 | 28 |
| September, 1980 | 19 | 9 | 28 |
| October, 1980 | 24 | 11 | 35 |
| November, 1980 | 19 | 9 | 28 |
| December, 1980 | 19 | 10 | 29 |
| January, 1981 | 24 | 11 | 35 |
| February, 1981 | 20 | 8 | 28 |
| March, 1981 | 20 | 8 | 28 |
| April, 1981 | 24 | 11 | 35 |
| May, 1981 | 19 | 9 | 28 |
| June, 1981 | 20 | 8 | 28 |
| | | | |
| Total | 251 | 114 | 365 |

ł

}

I-5

Information from the map on the reverse side of the questionnaires completed by these latter fishermen indicated a substantial portion fished off Saturna Island and in Active Pass. Stuart Island and the south Gulf Islands are the major fishing areas not covered by the creel survey.

A second major imputation occurred for those areas in winter months in which the creel survey was conducted only on weekend days. The resulting weekend catch per unit effort was used to translate both weekday and weekend effort into fish catch realized. Additionally, during winter interviewing took place at fewer landing sites than in summer. Accordingly, in winter it was necessary to allocate the catch per unit effort estimates of a specific landing site to a broader geographic area than in summer.

PROPORTION OF MARKED SALMON ESTIMATION

The proportion of marked salmon (coho or chinook) is calculated as a weighted average of Statistical sub-Area proportion of marked salmon in the catch. For each sub-Area the marked fish proportion is that of the mapped grouped landing site (Appendix N). The relative weight for each sub-Area is the proportion of total Statistical Area catch that the sub-Area contributes. An illustration of the procedure for Statistical Area 14 in July, 1980 is given in Table I-3.

In those cases where the number of fish inspected for marks in a given grouped landing site area was less than 20, the data were aggregated with that of neighbouring sub-Areas in calculating the proportion of marked salmon.

| | Mapped Landing Site ^a | Catch ^b | Relative Weight | Proportion Marked Fish |
|-----------|-------------------------------------|--------------------|--------------------|---------------------------|
| Coho | | | | , |
| 14K/L | CON | 10,696 | .244 | .063 |
| 14F/J | COC | 9,943 | .226 | .038 |
| 14C/D/E | QUN | 9,591 | .218 | .054 |
| 14A/B/G/H | QUS | 13,715 | .312 | .021 |
| All | | 43,945 | 1.000 | .042 |
| | | | | |
| Chinook | •. | | | |
| 14K/L | CON | 793 | .092 | .015 |
| 14F/J | COĆ | 1,627 | .188 | .000 |
| 14C/D/E | QUN | 1,076 | .125 | .000 |
| 14A/B/G/H | QUS | 5,142 | . 595 | .008 |
| All | | 8,638 | 1.000 | .006 |
| | | | | |

TABLE I-3: CALCULATION OF PROPORTIONS OF MARKED COHO AND CHINOOK, STATISTICAL AREA 14, JULY 1980

^aTable I-4. ^bDerived from Tables I-1 and I-2. ^CTable N-1. TABLE I-4 : MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, JULY 1980

.

| | | | LOYED FOR ESTIMATING |
|---|---------------------|---------------------------|-----------------------|
| | OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| | 13A/B | Campbell River | CAM |
| | 13C/D/E | Campbell River | CAM |
| | 13F/G/H/J | Campbell River Guided | Campbell River Guided |
| | 14A/B/G/H | Qualicum | QUS |
| | 14C/D/E | Qualicum | QUN |
| | 14F/J | Comox | ΩC |
| | 14K/L | Campbell River | CON |
| | 15A | Sechelt Peninsula | PR/LND |
| | 15B/C/D | Sechelt Peninsula | LND |
| , | 16A/B/C/F | Sechelt Peninsula | PH |
| | 16D/E | Qualicum | QUN |
| | 16G/H/I | Sechelt Peninsula | PR |
| | 16J | Sechelt Peninsula | EG |
| | 17A/B/C | Nanaimo | CHE/LDY |
| | 17D/E/F | Nanaimo | NAN |
| | 17G | Qualicum | QUS |
| | 18A | Nanaimo | COW |
| | 18B | Victoria | SID |
| | 18C/D | South Arm of Fraser South | Crescent Beach |
| | 19A | Saanich Inlet | SAN |
| | 19B | Victoria | SID |
| | 19C/D | Victoria | VIC |
| | 19E/F | Victoria | SOK |
| | 28A/B/E | Vancouver | VAW |
| | 28D | Vancouver | GIB |
| | 29A | Vancouver | RIC/VAN |
| | 29B | Vancouver | RIC/VAN/VAW/GIB |
| | 29C | Sechelt Peninsula | PH |
| | 29F | South Arm of Fraser South | DEL |

TABLE 1-5 : MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, AUGUST 1980

| OVERFLIGHT SUB-AREA | LANDING SITE REGION EMP DAILY FISHING PATTERN | CATCH RATE |
|---------------------------------------|--|-----------------------|
| · · · · · · · · · · · · · · · · · · · | | |
| 13A/B | Campbell River | CAM/CON |
| 13C/D/E | Campbell River | CAM |
| 13F/G/H/J | Campbell River Guided | Campbell River Guided |
| 14A/B/G/H | Qualicum | QUS |
| 14C/D/E | Qualicum | QUN |
| 14F/J | Comox | 000 |
| 14K/L | Campbell River | CON |
| 15A | Sechelt Peninsula | PR/LND |
| 15B/C/D | Sechelt Peninsula | LND |
| 16A/B/C/F | Sechelt Peninsula | PH |
| 16D/E | Qualicum | QUN |
| 16G/H/I | Sechelt Peninsula | PR |
| 165 | Sechelt Peninsula | EG |
| 17A/B/C | Nanaimo | CHE/LDY |
| 17D/E/F | Nanaimo | NAN |
| 17G | Qualicum | QUS |
| 18A | Nanaimo | COW |
| 18B | Victoria | SID |
| 18C/D | South Arm of Fraser South | Crescent Beach |
| 19 A | Saanich Inlet | SAN |
| 19B | Victoria | SID |
| 19C/D | Victoria | VIC . |
| 19E/F | Victoria | SOK |
| 28A/B/E | Vancouver | VAW |
| 28D | Vancouver | GIB |
| 29A | Vancouver | RIC/VAN |
| 29B | Vancouver | RIC/VAW/VAN/GIB |
| 29C | Sechelt Peninsula | PH |
| 29F | South Arm of Fraser South | DEL |

TABLE I-6: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, SEPTEMBER 1980

| | LANDING SITE REGION EMP | LOYED FOR ESTIMATED |
|---------------------|-------------------------|-----------------------|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| | · · | · · |
| 13A/B | Campbell River | CAM/CON |
| 13C/D/E | Campbell River | CAM |
| 13F/G/H/J | Campbell River Guided | Campbell River Guided |
| | - | - |
| 14A/B/G/H | Qualicum | QUS |
| 14C/D/E | Qualicum | QUN |
| 14F/J | Comox | · COC |
| 14K/L | Campbell River | CON |
| | | |
| 15A/B/C/D | Sechelt Peninsula | PR / |
| 16A/B/C/F/J | Sechelt Peninsula | PH |
| 16D/E | Qualicum | QUN |
| 16G/H/I | Sechelt Peninsula | PR |
| 100/1/1 | Secuent Feminadia | FR |
| 17A/B/C | Nanaimo | CHE/LDY |
| 17D/E/F | Nanaimo | NAN |
| 17G | Qualicum | QUS |
| | · . | |
| 18A | Nanaimo | COW |
| 18B | Victoria | SID |
| 18C/D | Victoria | DEL |
| 107 | Consider Tolot | |
| 19A | Saanich Inlet | SAN |
| 19B | Victoria | SID |
| 19C/D | Victoria | VIC |
| 19E/F | Victoria | SOK |
| | | |
| 28A/B/E | Vancouver | VAW |
| 28D | Vancouver | GIB |
| 203 | •• | |
| 29A | Vancouver | RIC/VAN |
| 29B | Vancouver | RIC/VAN/VAW/GIB |
| 290 | Sechelt Peninsula | PH |
| 29F | Vancouver | RIC |
| | | |

I-10

. .

TABLE 1-7 : MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, OCTOBER 1980

| - | LANDING SITE REGION EMPLOYED FOR ESTIMATING | | | |
|---------------------|---|-----------------|--|--|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE | | |
| | • | | | |
| 13A/B/C/D/E | Campbell River | CAM | | |
| | 0 - 14 | | | |
| 14A/B/C/D/E | Qualicum | QUS | | |
| 14F/J | Comox | COC | | |
| 14K/L | Campbell River | CAM | | |
| -15A/B/C/D | Sechelt Peninsula | PR | | |
| 16A/B/C/F/J | Sechelt Peninsula | PH | | |
| 16G/H/I | Sechelt Peninsula | PR | | |
| 17A/B/C/D/E/F/G | Nanaimo | NAN | | |
| 18A | Nanaimo | COW | | |
| 18B/C/D | Victoria | SID | | |
| 19A | Saanich Inlet | SAN | | |
| 19B | Victoria | SID | | |
| 19C/D | Victoria | VIC | | |
| 19E/F | Victoria | SOK | | |
| 28A/E | Vancouver | VAW | | |
| 28D | Vancouver | GIB | | |
| 2 9 A | Vancouver | RIC/VAN | | |
| 29B | Vancouver | RIC/VAN/VAW/GIB | | |
| 29C | Sechelt Peninsula | PH | | |
| 29F | Vancouver | RIC | | |
| | | • va v | | |

I-11

TABLE I-8 : MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, NOVEMBER 1980

1

| | LANDING SITE REGION EM | PLOYED FOR ESTIMATING |
|---------------------|---------------------------------------|-----------------------|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| | | |
| 13A/B/C/D/E | North Island * | CAM |
| | | |
| 14A/B/C | North Island | QUS |
| 14D/F/J/K | North Island | COC |
| 15A/C | Séchelt Peninsula | PR |
| | | |
| 16A/B/F/H/I | Sechelt Peninsula | PH |
| | | |
| 17A/B/C/D/E/F | North Island | NAN |
| 188 | North Island | COW |
| 18B/C/D | Victoria/Saanich Inlet | SID |
| 102/ 0/ 0 | | |
| 19A | Victoria/Saanich Inlet | SAN |
| 1.00 | Victoria/Saanich Inlet | SID |
| 19B | Victoria/Saanich Inlet | VIC |
| 19C/D | Victoria/Saanich Inlet | SOK |
| 19E/F | Victoria/Saanich infet | 0.0 |
| 28A/D/E | Vancouver | VAW |
| | · · · · · · · · · · · · · · · · · · · | . ' |
| 29A/F | Vancouver | VAN |
| 29B | Vancouver | VAW |
| 29C | Sechelt Peninsula | PH |
| | | |

North Island is Campbell River, Comox, Qualicum plus Nanaimo.

.

I-12

Į

Γ

TABLE 1-9: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, DECEMBER 1980

| | LANDING SITE REGION EMPI | OYED FOR ESTIMATING |
|---------------------|---------------------------------------|---------------------|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| | | |
| 13A/B/C/D/E | North Island | CAM |
| | · . | |
| 14A/B/C/D/F/J/K | North Island | COC |
| 15A/C | Sechelt Peninsula | PR |
| ISA/C | Secheit Peninsula | PR |
| 16A/B/F/H/I | Sechelt Peninsula | PH |
| | · · · · · · · · · · · · · · · · · · · | |
| 17A/B/C/D/E/F | North Island | NAN · |
| | · · · · · · · | |
| 18A | North Island | COW |
| 18B/C/D | Victoria/Saanich Inlet | SID |
| 19A | Victoria/Saanich Inlet | SAN |
| | Viotoria, Salmich intet | |
| 19B | Victoria/Saanich Inlet | SID |
| 19C/D | Victoria/Saanich Inlet | VIC |
| 19E/F | Victoria/Saanich Inlet | SOK |
| | | |
| 28A/D/E . | Vancouver | VAW |
| 29a/f | Vancouver | VAN |
| 298/F | Vancouver | • |
| 295 29C | | VAW |
| 270 | Sechelt Peninsula | PH |

1

.

I-14

TABLE I-10: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREA, JANUARY 1981

| | | EMPLOYED FOR ESTIMATING |
|---------------------|------------------------|-------------------------|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| 13A/B/C/D/E | North Island | CAM |
| 14A/B/C | North Island | QUS |
| 14D/E/F/K/L | North Island | COC |
| 15A/C | Sechelt Peninsula | PR |
| 16A/B/F/H/I | Sechelt Peninsula | PH |
| 17A/B/C | North Island | LDY |
| 17D/E/F | North Island | NAN |
| 18A | North Island | COW |
| 18B/C/D | Victoria/Saanich Inlet | SID |
| 19A | Victoria/Saanich Inlet | SAN |
| 19B | Victoria/Saanich Inlet | SID |
| 19C/D | Victoria/Saanich Inlet | VIC |
| 19E/F | Victoria/Saanich Inlet | SOK |
| 28A/D/E | Vancouver | VAW |
| 29A | Vancouver | VAN |
| 29B | Vancouver | VAW |
| 29C | Sechelt Peninsula | PH |

TABLE I-11: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREA, FEBRUARY 1981

<u>.</u> .

| •. | LANDING SITE REGION EMPI | OYED FOR ESTIMATING |
|---------------------|---|---------------------|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| · · · | • • | |
| 13A/B/C/D/E | North Island | CAM |
| | | |
| 14A/B/C | North Island | QUS. |
| 14D/E/F/K/L | North Island | COC |
| 152 /0 | | ·. |
| 15A/C | Sechelt Peninsula | PR |
| 16A/B/F/H/I | Sechelt Peninsula | PH |
| | Sechert Feninsura | PA . |
| 17A/B/C | North Island | LDY |
| 17D/E/F | North Island | NAN |
| | · · · | |
| 18A | North Island | COW |
| 18B/C/D | Victoria/Saanich Inlet | SID |
| | | |
| 19A | Victoria/Saanich Inlet | SAN |
| 198 | Victoria, Saanich Inlet | SID |
| 196/D | Victoria/Saanich Inlet | VIC |
| 19E/F | Victoria/Saanich Inlet | SOK |
| | · = · · · · · · · · · · · · · · · · · · | |
| 28A/D/E | Vancouver | VAW |
| | · . | • |
| 29A | Vancouver | VAN |
| 29B | Vancouver | VAW |
| 29C - | Sechelt Peninsula | PH |
| | · · · · · | |

TABLE 1-12: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREA, MARCH 1981

| * | | |
|---------------------|------------------------|------------------------|
| | LANDING SITE REGION E | MPLOYED FOR ESTIMATING |
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE |
| | - | |
| 13A/B/C/D/E | North Island | CAM |
| | | |
| 14A/B/C/G | North Island | QUS |
| 14D/E/F/J | North Island | COC |
| 15A/C | Sechelt Peninsula | PR |
| | Control to Descinguite | |
| 16A/B/F/J | Sechelt Peninsula | PH |
| 16G/I | Sechelt Peninsula | PR |
| 17A/B/C | North Island | LDY |
| 17D/E/F/G | North Island | NAN |
| 188 | North Island | COW |
| 18B/C/D | Victoria/Saanich Inlet | SID |
| 19A | Victoria/Saanich Inlet | SAN |
| 198 | Victoria/Saanich Inlet | SID |
| 19C/D | Victoria/Saanich Inlet | VIC |
| 19E/F | Victoria/Saanich Inlet | SOK |
| 28A/D/E | Vancouver | VAW |
| 29A | Vancouver | VAN |
| 29в | Vancouver | VAW |
| 29C | Sechelt Peninsula | PH |
| 29F | Vancouver | VAN |
| | | |

.

TABLE I-13 : MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREA, APRIL 1981

`

| · · . | LANDING SITE REGION EMPLOYED FOR ESTIMATING | | |
|---------------------------------------|---|------------|--|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE | |
| · · · · · · · · · · · · · · · · · · · | | · · · | |
| 13A/B/C/D/E | North Island | CAM | |
| | | | |
| 14A/B/C | North Island | QUS | |
| 14D/E/F/J | North Island | COC | |
| 14K/L | North Island | CAM | |
| 15A/C | Sechelt Peninsula | PR | |
| | | | |
| 16A/B/F/G | Sechelt Peninsula | PH | |
| 16G/I | Sechelt Peninsula | PR | |
| 17A/B/C | North Island | LDY | |
| 17D/E/F/G | North Island | NAN | |
| 18a | North Island | COW | |
| 18B/C/D | Victoria/Saanich Inlet | SID | |
| 19A | Victoria/Saanich Inlet | SAN | |
| 19B | Victoria/Saanich Inlet | SID | |
| 19C/D | Victoria/Saanich Inlet | VIC | |
| 19E/F | Victoria/Saanich Inlet | SOK | |
| 28A/D/E | Vancouver | VAW | |
| 29A | Vancouver | VAN | |
| 29B | Vancouver | VAW | |
| 29C | Sechelt Peninsula | PH | |
| 29F | Vancouver | VAN | |
| Ν. | - | | |

I--17

TABLE I-14: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREA, MAY 1981

| | LANDING SITE REGION EMPLOYED FOR ESTIMATING | | |
|---------------------|---|-----------------------|--|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE | |
| · · · | | | |
| 13A/B | Campbell River | CAM | |
| 13C/D/E | Campbell River | CAM | |
| 13F/G/H/J | Campbell River Guided | Campbell River Guided | |
| 14A/B/G/H | Qualicum | QUS - | |
| 14C/D/E | Qualicum _ | QUN | |
| 14F/J | Comox | COC | |
| 14K/L | Campbell River | CON | |
| 15A | Sechelt Peninsula | PR/LND | |
| 15B/C/D | Sechelt Peninsula | LND | |
| 16A/B/F/J | Sechelt Peninsula | PH | |
| 16D/E | Qualicum | QUN | |
| .16G/H/I | Sechelt Peninsula | PR | |
| 17A/B/C/D/E/F/G | Nanaimo | NAN | |
| 18A | Nanaimo | COW | |
| 18B/C/D | Victoria | SID " | |
| 19A | Saanich Inlet | SAN | |
| 19B | Victoria | SID | |
| 19C/D | Victoria | VIC | |
| 19E/F | Victoria | SOK | |
| 28A/B/E | Vancouver | VAW | |
| 28D | Vancouver | GIB | |
| 29A | Vancouver | VAN | |
| 29B | Vancouver | VAN/VAW/GIB | |
| 29C . | Sechelt Peninsula | PH | |
| 29F | Vancouver | VAN | |
| · · | | | |

I-18

,

TABLE I-15: MAPPING OF LANDING SITE REGIONS TO OVERFLIGHT SUB-AREAS, JUNE 1981

| | LANDING SITE REGION EMPLOYED FOR ESTIMATING | | | |
|---------------------|---|-----------------------|--|--|
| OVERFLIGHT SUB-AREA | DAILY FISHING PATTERN | CATCH RATE | | |
| | | | | |
| 13A/B | Campbell River | CAM | | |
| 13C/D/E | Campbell River | CAM | | |
| l3F/G/H/J | Campbell River Guided | Campbell River Guided | | |
| 14A/B/G/H | Qualicum | QUS | | |
| 14C/D/E | Qualicum | QUN | | |
| 14F/J | Comox | - DOD | | |
| 14K/L | Campbell River | CON | | |
| 15A | Sechelt Peninsula | PR/LND | | |
| 15B/C/D | Sechelt Peninsula | ' LND | | |
| 16A/B/C/F/J | Sechelt Peninsula | PH | | |
| 16D/E . | Qualicum | QUN | | |
| 16G/H/I | Sechelt Peninsula | PR | | |
| 17A/B/C | Nanaimo | CHE/LDY | | |
| 17D/E/F | Nanaimo | NAN | | |
| 17G | Qualicum | QUS | | |
| 18A . | Nanaimo | COW | | |
| 18B | Victoria | SID | | |
| 18C/D | Victoria | SID | | |
| 19A | Saanich Inlet | SAN | | |
| 19B | Victoria | SID | | |
| 19C/D | Victoria | VIC | | |
| 19E/F | Victoria | SOK | | |
| 28A/B/E | Vancouver | VAW | | |
| 28D | Vancouver | GIB | | |
| 29A | Vancouver | RIC/VAN | | |
| 29B | Vancouver | RIC/VAN/VAW/GIB | | |
| 29C | Sechelt Peninsula | PH | | |
| 29F | Vancouver | RIC | | |

I-19

L

APPENDIX J

VANCOUVER SUN DERBY DAY ESTIMATES

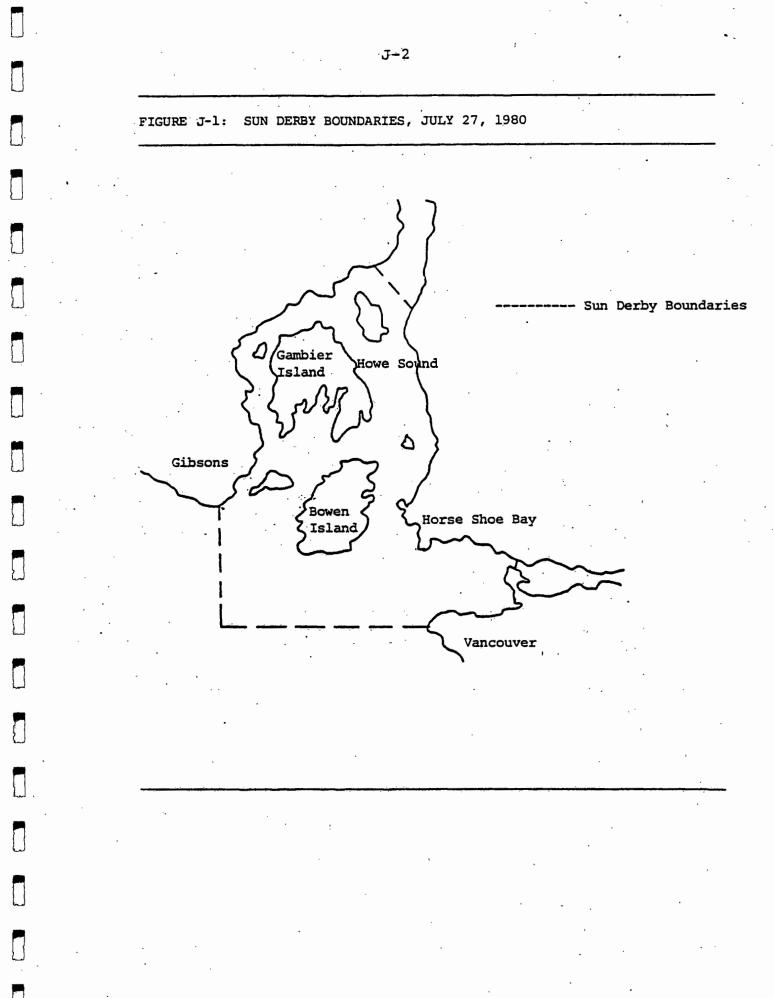
For over 30 years the Vancouver Sun newspaper has sponsored "The Sun Free Salmon Derby". Prizes are given to the largest salmon caught within greater Howe Sound (see Figure J-1) between midnight and 2:30 on Derby Day (usually the last Sunday in July). In response to this promotion, many more boats than are usual in a July weekend participate in the recreational fishery in Howe Sound on this day. In addition, given the closing time deadline, the distribution of fishing effort throughout the day differs from that on a normal weekend day. These considerations suggest that Derby Day should be considered a distinct day type for analytic purposes for those areas affected.

In this appendix, estimates of salmon catch and effort are developed for this one weekend day in July for Statistical Areas 28 and 29 -- the areas affected by the Derby (Figure J-1). These estimates will then be added to the total July estimates (excluding Derby Day) generated per the methodology outlined in Section 4 of the report to produce the total July sport fishing activity estimates presented in Section 6.

Two separate sport boat counts in the Derby Day area were conducted -- one in the forward leg of an overflight and one on the back leg of the flight (Table J-1). Because of fog conditions in Howe Sound during the early flight, it is thought that the second count is more reliable and, accordingly, this second count during 10:00 AM - 10:45 AM is employed in the ensuing analysis.

In concert with the overflight, interviewers were stationed at 3 landing sites (2 marinas and 1 boat ramp) in the

J-1



.

-

| TABLE J-1: OVERFLIGHT COU SUN DERBY DAY, | | | AREAS 28 and 29, VANCOUV | ER |
|---|---------|----------------|--------------------------|----|
| | | Overf | light Count | |
| · · · · | | | | |
| | | #1 | #2 | |
| Time of Overflight | 7:30 / | AM - 8:15 A | M 10:00 AM - 10:45 AM | |
| | | | | |
| Sport Boat Counts | | | | |
| Area 28 | | | | |
| Area 28A | | 306 | 361 | |
| Area 28B | | 195 | 186 | |
| Area 28D | | 155 | 193 | |
| Area 28E | | 84 | 125 | |
| Area 29 | | | | |
| · | | | | |
| Area 29A | | 45 | 47 | |
| Area 29B | | 321 | 343 | |
| Area 29C (not in Derb | y Area) | 29 | NA | |
| Area 29F (not in Derb | y Area) | 2 ^e | NA | |
| - | | | | |
| Total Count in Derby Area | 1, | ,106 | 1,255 | |

An overflight was conducted by DFO on Derby Day in 1981 (July 26) between 8:00 AM and 9:00 AM. The 1981 sport boat count was approximately the same as the 1980 7:30 AM - 8:15 AM count.

e Estimate

| JULY 27, 1980 | R REGION, VAN | COUVER SUN DERBY DAY, SUN |
|-------------------------------|---------------|--|
| <u> </u> | | ······································ |
| | | |
| AMPLING EFFORT | | |
| o. Sites Sampled | | 3 |
| o. Sites Sampled ^a | • | 6 |
| o. Fishing Boats Interviewed | | 225 |
| | | · . |
| | | ACTIVITY |
| ITE DAILY ESTIMATES | Total | Average per Boat Trip |
| o. Sport Boat Trips | 381 | 1.000 |
| o. Kept Salmon | | |
| Coho | 208 | .546 |
| Chinook | 90 | .236 |
| Total Salmon | 298 | . 782 |
| o. Sport Boats Fishing | | |
| Before 7:00 AM | 263 | .690 |
| 7:00 AM - 8:00 AM | 292 | .766 |
| 8:00 AM - 9:00 AM | 305 | .801 |
| 9:00 AM - 10:00 AM | 309 | .811 |
| 10:00 AM - 11:00 AM | 278 | .730 |
| 11:00 AM - 12:00 PM | 243 | .638 |
| 12:00 PM - 1:00 PM | 202 | .530 |
| 1:00 PM - 2:00 PM | 146 | . 383 |
| 2:00 PM - 3:00 PM | 118 | .310 |
| 3:00 PM - 4:00 PM | 65 | .171 |
| 4:00 PM - 5:00 PM | 34 | .089 |
| 5:00 PM - 6:00 PM | 13 | .034 |
| 6:00 PM - 7:00 PM | . 9 | .024 |
| 7:00 PM - 8:00 PM | 6 | .016 |
| 8:00 PM - 9-00 PM | 3 | .008 |
| After 9:00 PM | 1 | .003 |

^a Each site was sampled on a back to back 7:00 AM - 3:00 PM and 3:00 PM -11:00 PM shifts.

1

Vancouver area on a "back to back" shift basis so that all returning boat traffic between the hours of 7 AM and 11 PM on Derby Day was covered at these selected facilities. Estimates of total¹ sport fishing boat activity originating from these facilities on Derby Day were estimated (Table J-2).

Inflating the "snapshot" sport boat counts from Table J-1 by the inverse of the proportion of total daily fishing activity taking place within the hour of count (10 AM - 11 AM) from Table J-2 allows one to estimate total sport fishing effort in Derby Day in Statistical areas 28 and 29. Salmon catches per unit effort (Table J-2) then can be applied to the total effort count above to produce estimates of total salmon catch made by all boating parties in areas 28 and 29 on Derby Day. The resulting rounded estimates are:

| | EFFORT (BOAT TRIPS) | SALM | ON CATCH |
|------------|---------------------|------|----------|
| | | Coho | Chinook |
| Area 28 | 1,180 * | 640 | . 280 |
| Area 29 ** | 530 | 290 | 130 |
| TOTAL | 1,710 | 930 | 410 |

*eq. 865/.730

** Daily fishing patterns and catches witin the Derby Boundaries and outside the boundaries, but still within area 29, are assumed to be the same on this day.

Due to the volume of boat traffic, not all boating parties returning could be interviewed. Estimates of sport fishing activity parameters for <u>all</u> parties are made by "weighting up" the raw interview data totals in the basis of the proportion of boats interviewed to returning.

J-5

One should not view the above estimates as estimates of the total number of boats participating in the Sun Derby and of the number of salmon caught by Derby participants. Some of the fishing activity in Area 29 occurred outside the Derby Boundaries (Figure J-1). Moreover, some of the fishing activity occurred after the 2:30 PM derby closing deadline (Table J-2).

APPENDIX K

VARIANCE ESTIMATION

. . . In this appendix we outline the methodology employed to estimate the variance (sampling variability or precision) of the estimates of catch, effort and proportions of marked salmon presented in Section 6 of the Main Report.

CATCH AND EFFORT ESTIMATES

Theoretical Framework

The creel survey estimates of intensive fishing parameters are of the form \hat{x}_h/\hat{x}_h^* (see equation (4) Main Report) where both \hat{x}_h and \hat{x}_h^* are random variables. Because of the ratio form of the estimate, no closed analytic form for the variance of the estimate exists. Taylor series approximation methods, sometimes called the "delta method", were used to estimate the variance as:¹

 $\operatorname{var}\left(\frac{\hat{x}_{h}}{\hat{x}_{h}^{\star}}\right) = \frac{\hat{x}_{h}^{2}}{\hat{x}_{h}^{\star 2}} \qquad \left(\frac{\operatorname{var}\hat{x}_{h}^{\star}}{\hat{x}_{h}^{2}} + \frac{\operatorname{var}\hat{x}_{h}^{\star}}{\hat{x}_{h}^{\star 2}} - \frac{2\operatorname{Cov}(\hat{x}_{h},\hat{x}_{h})}{\hat{x}_{h}\hat{x}_{h}^{\star}}\right) \quad (K.1)$

where $\operatorname{Var} \hat{x}_{h}$ and $\operatorname{Var} \hat{x}_{h}^{*}$ are the variances of \hat{x}_{h} and \hat{x}_{h}^{*} respectively, and $\operatorname{COV}(\hat{x}_{h}, \hat{x}_{h}^{*})$ is the covariance of \hat{x}_{h} and \hat{x}_{h}^{*} .

Two sources of variation exist in the average characteristics estimate due to the sampling of stints and due to the sampling of boating parties. A relatively large fraction of recreational boat traffic during sampling periods was interviewed (approximately 85 percent of returning boats in summer months and over 95 percent of boats in winter months). Therefore, one would expect the greatest contribution to the variance to come from the stint level of selection and, hence, the following variance estimates embody only this sampling stage.

¹See W.G. Cochran, <u>Sampling Techniques</u>, John Wiley and Sons, 1963, p. 158, and G.A.F. Seber, <u>The Estimation of Animal Abundance and Related</u> Parameters, Griffin, London, 1973, p. 1.3.3. One estimates Var \hat{x}_{h} , Var \hat{x}_{h}^{*} , and COV $(\hat{x}_{h}, \hat{x}_{h}^{*})$ as: $(\hat{x}_{h}, \hat{x}_{h}) = \frac{1}{2} \hat{x}_{h}$

 $\operatorname{Var}(\hat{x}_{h}^{\star}) \text{ is analagous to above, and}$ $\operatorname{Cov}(\hat{x}_{h}, \hat{x}_{h}^{\star}) = \sum_{i j} \sum_{hij}^{2} M_{hij}^{2} \left(\frac{1}{m_{hij}} - \frac{1}{M_{hij}} \right) \times \left(\sum_{k}^{2} \left(\frac{\hat{x}_{hijk} \hat{x}_{hijk}^{\star} - \frac{1}{m_{hij}} \sum_{k}^{2} \hat{x}_{hijk} \sum_{hijk}^{2} \hat{x}_{hijk}^{\star} \right)$ (K.3)

These estimates, in turn, are substituted into expression K.l in estimating the variance of average fishing boating party characteristics.

From the overflight survey the estimate of the average number of sport boats fishing in hour t on day type h is:

$$\bar{y}_{h}(t) = \sum_{b=1}^{n_{h}} \frac{y_{hb}(t)}{n_{h}}$$
 (K.4)

For variance calculations, it was assumed that the overflight days selected comprised a simple random sample. Accordingly, the variance estimate of $\bar{y}_h(t)$ is approximated by:

K-3

$$\operatorname{Var}\left(\overline{y}_{h}(t)\right) = \left(\frac{1}{n_{h}} - \frac{1}{N_{h}}\right) \sum_{b=1}^{n_{h}} \left(\frac{y_{hb}(t) - \overline{y}_{h}(t)}{n_{h}-1}\right)^{2}$$
(K.5)

General expressions for the variances of products and ratios of independent random variables are:

 $Var(XY) = E_X^2 VarY + E_Y^2 Var X + VarX VarY$ (K.6)

(K.7)

and

$$\operatorname{Var}\left(\frac{x}{Y}\right) = \frac{\frac{E_{x}^{2}}{E_{y}^{2}}}{\frac{E_{y}^{2}}{E_{y}^{2}}} \left[\frac{\frac{\operatorname{Var} x}{E_{x}^{2}} + \frac{\operatorname{Var} y}{E_{y}^{2}}}{\frac{E_{y}^{2}}{E_{y}^{2}}}\right]$$

where E_x is expected value of X, and

VarX is variance of X.

The expression for the variance of the ratio is a Taylor series approximation whereas the expression for variance of the product is an exact result.²

The total monthly effort estimate is (per equation (8) in the Main Report):

$$E = \sum_{h=1}^{2} E_{h} = \sum_{h=1}^{2} N_{h} \frac{\overline{y}_{h}(t)}{\overline{p}_{h}(t)}$$
(K.8)

Using the above results and substituting sample estimates of means and variances for the corresponding population parameters, one estimates the variance of total monthly effort as:

²See L.A. Goodman, "On the Exact Variance of Products", Journal of the American Statistical Association, Vol. 55: 708-713, 1960.

$$\operatorname{VarE} = \sum_{h=1}^{2} \operatorname{VarE}_{h} = \sum_{h=1}^{2} \operatorname{N}_{h}^{2} \left[\frac{\overline{y}_{h}(t)}{\overline{p}_{h}(t)} \right]^{2} \left[\frac{\operatorname{Var} \overline{y}_{h}(t)}{\overline{y}_{h}(t)^{2}} + \frac{\operatorname{Var} \overline{p}_{h}(t)}{\overline{p}_{h}(t)^{2}} \right]$$

$$= \sum_{h=1}^{2} E_{h}^{2} \left[CV^{2}(\overline{y}_{h}(t)) + CV^{2}(\overline{p}_{h}(t)) \right]$$
(K.9)

where CV $(\bar{y}_{h}(t))$ is the coefficient of variation of $\bar{y}_{h}(t)$.

The total monthly catch estimate is (per equation (9) in the Main Report):

$$C = \sum_{h=1}^{2} C_{h} = \sum_{h=1}^{2} \bar{c}_{h} N_{h} \frac{\bar{y}_{h}(t)}{\bar{p}_{h}(t)}$$
(K.10)

The corresponding variance estimate is:³

Π

Γ

 $\operatorname{VarC} = \sum_{h=1}^{2} \operatorname{VarC}_{h} = \sum_{h=1}^{2} \left[\overline{c_{h}}^{2} \operatorname{VarE}_{h} + \overline{E_{h}}^{2} \operatorname{Var}_{h} + \operatorname{Var}_{h} \overline{c_{h}} \operatorname{Var}_{h} \right]$

$$= \sum_{h=1}^{2} \bar{c_h}^2 E_h^2 \left[\frac{VarE_h}{E_h^2} + \frac{Var\bar{c_h}}{\bar{c_h}^2} + \frac{VarE_h Var\bar{c_h}}{\bar{c_h}^2 E_h^2} \right]$$
$$= \sum_{h=1}^{2} c_h^2 \left[cv^2(E_h) + cv^2(\bar{c_h})^2 + cv^2(E_h) cv^2(\bar{c_h}) \right]$$
(K.11)

 $^{3}\text{This}$ formulation ignores any correlation between $\bar{p}_{h}(\text{t})$ and $\bar{c}_{h}(\text{t})$.

K-5

Imputations

Due to time constraints the procedure for estimating the variance of intensive fishing parameter estimates (of the form \hat{x}_h/\hat{x}_h^*) outlined previously was not feasible. Consequently, a proxy to the procedure embodied in equations K.1 through K.3 was adopted. The relative precision, or coefficient of variation, of <u>unweighted</u> estimates of the intensive fishing parameters determined from the raw creel survey data is imputed as the coefficient of variation of the <u>weighted</u> estimates of the relative error of weighted intensive fishing parameters. That is, the relative error of weighted intensive fishing parameters is estimated as:

$$CV(Z) = \frac{\sqrt{var(\overline{Z})}}{\overline{Z}}$$

where Var $(\overline{Z}) = \frac{1}{n} = \frac{n}{1} \left(\frac{Z_{1} - \overline{Z}}{n-1} \right)$

CV = coefficient of variation
Z_i = value of ith observation
Z
 = mean value
n = number of interviews

instead of equation K.1.

Thereafter, the calculation of variance estimates for total effort and coho and chinook catch follows equations K.9 and K.11.

Similar to the catch and effort estimation methodology outlined in Appendix I, the calculations are undertaken for "like" statistical Sub-Areas and the resulting estimated variances of sub-area estimates are added to comprise a total Statistical Area estimate for midweek and weekend day types.⁴ These two

⁴This procedure assumes that sub-area estimates are statistically uncorrelated.

(K.12)

estimates are added to form a total monthly estimate. In Table K-1 the companion variance calculations to the catch and effort estimates in Table I-1 are presented for Statistical Area 14 for July 1980.

This is the procedure used to estimate error bounds for the fishing effort and coho catch and chinook catch estimates. A different procedure was used for the total salmon -- coho plus chinook plus other or unidentified salmon -- catch estimates due to the non-availability⁵ of coefficient of variation estimates for this variable. Rather, total salmon variance estimates were calculated under the following two assumptions:

- . the coefficient of variation of other or unidentified salmon is equal to one, and
- . the catches of coho, chinook and other or unidentified salmon are uncorrelated.

Under these conditions, the variance of a given total salmon catch estimate was equal to the sum of the variance of the corresponding coho catch estimate, the variance of the corresponding chinook estimate and the squared level of the corresponding other or unidentified salmon catch estimate.

Other or unidentified salmon comprise only 1 percent of the 877 thousand 12 month salmon catch so the first assumption has minimal impact. The question of whether coho and chinook catches are uncorrelated, positively correlated or negatively correlated is somewhat open. One could argue that due to the daily individual "bag limit" of 4 salmon per person, conceptually the catches should be negatively correlated. However, only 2 1/2 percent of boating parties interviewed "limited out" so this does not

⁵Summary statistics from raw creel survey data were tabulated by computer before the variance estimation approach was resolved. Such calculations did not include tabulations for total salmon but only for the constituent salmon species. Consequently, an equivalent approach to that for coho and chinook could not be followed.

| | | | | | | ÷ | | • | | | Monthly | Catch | |
|-------------|------------------------|-------|-----------------|--------|--------------------|--------|------------------|--------------------|------------|------------------|--------------------|------------------|------------------|
| Statistical | Mannad | Overf | light C | Counts | Coverage Fáctor | Honth | y Effort | CV ^b of | Catch Rate | | со | C | H · |
| Sub-Area | Mapped Landing Site | Mean | se ^a | cvb | cv ^b | Est | Var ^đ | со | CH | Est ^C | , Var ^d | Est ^C | Var ^d |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| Midweek Day | . · | | | | | | | | | - | | | |
| 14K/L | CON | 51 | 8.4 | .17 | .04 | 3,912 | 466,800 | .06 | .20 | 7,968 | 2,171,900 | 692 | 32,40 |
| 14F/J | COC | 78 | 35.1 | .45 | .06 | 6,120 | 7,719,400 | .07 | .13 | 7,776 | 12,819,400 | 1,176 | 313,200 |
| 14C/D/E | QUN | 66 | 1.9 | .03 | .07 | 5,376 | 167,600 | .12 | . 26 | 5,400 | 591,500 | 504 | 18,70 |
| 14A/B | QUS | 53 | 10.4 | . 20 | .07 | 4,320 | 837,900 | .07 | .11 | 5,088 | 1,294,900 | 2,064 | 245,100 |
| 14G/H | QUS | 33 | 3.7 | .11 | .06 | 2,160 | 73,200 | .07 | .11 | 2,544 | 133,800 | 1,032 | 29,80 |
| A11 . | | | | | | 21,888 | 9,264,900 | | | 28,776 | 17,011,500 | 5,448 | 639,200 |
| Weekend Day | | | | | , | | | | | | | | |
| 14K/L | CON | 17 | 3.2 | . 19 | .05 | 825 | Ž6, 300 | .08 | .17 | 2,728 | 336,700 | 121 | 1,000 |
| 14F/J | COC | 21 | 5.7 | .27 | .15 | 1,881 | 337,500 | .08 | .19 | 2,167 | 480,900 | 451 | 27,400 |
| 4C/D/E | QUN | 90 | 10.8 | .12 | .05 | 3,102 | 162,600 | .09 | .21 | 4,191 | 441,500 | 572 | 20,200 |
| L4A/B | QUS | 61 | 7.8 | .13 | .05 | 2,101 | 85,600 | .07 | .12 | 3,069 | 229,800 | 1,034 | 36,400 |
| 14G/H | QUS | 52 | 9.4 | .18 | .05 | 2,068 | 149,300 | .07 | .12 | 3,014 | 363,100 | 1,012 | 51,000 |
| A11 | | | | | | 9,977 | 761,300 | : | | 15,169 | 1,852,000 | 3,190 | 136,000 |
| | | | | | | | 19 | | | . , | | | ·. |
| Total | | | | | | 31,865 | 10,026,200 | | | 43,945 | 18,863,500 | 8,638 | 775,200 |
| | | | | | | | | | | | | | |

TABLE K-1: CALCULATION OF SPORT FISHING EFFORT AND SALMON CATCH VARIANCE ESTIMATES, STATISTICAL AREA 14, JULY 1980

^aStandard Error (square root of variance estimate)

^bCoefficient of variation

C_{Estimate}

1

d Variance estimate

....Continued

TABLE K-1: CALCULATION OF SPORT FISHING EFFORT AND SALMON CATCH VARIANCE ESTIMATES, STATISTICAL AREA 14, JULY 1980 (Continued)

- (1) Table D-1
- (2) Calculated from data in Table D-1 and using equation K.5
- (3) = (2)/(1)
- (4) Derived from raw (unweighted) data using binomial variance formula K.12
- (5) Daily effort (Table I-1) times number of days in month (Table I-2)
- (6) $(5)^2 [(3)^2 + (4)^2]$

(7) Derived from raw (unweighted) data using equation K.12

(8) Derived from raw (unweighted) data using equation K.12

(9) Daily catch (Table I-1) times number of days in month (Table I-2)

$$(10) = (9)^{2} \left[\left\{ (3)^{2} + (4)^{2} \right\} + (9)^{2} + (9)^{2} \left\{ (3)^{2} + (4)^{2} \right\} \right]$$

(11) Daily catch (Table I-1) times number of days in month (Table I-2)

$$(12) = (11)^{2} \left[\left\{ (3)^{2} + (4)^{2} \right\} + (10)^{2} + (10)^{2} \left\{ (3)^{2} + (4)^{2} \right\} \right]$$

appear to be a serious consideration. Some fishermen "target" on a particular salmon species through choice of fishing location, fishing depth, fishing method and tackle, etc. In such cases, one would expect catches of coho and chinook to be negatively correlated, i.e., boats with high coho catches have low chinook catches and vice versa. However, one could also argue that skill in fishing applies equally to all salmon species and that therefore one would expect coho and chinook catches to be positively correlated. For the purposes of this study, we view the neutral position of their being.no correlation between coho and chinook catches as being adequate.

As an example, the variance of the total salmon catch estimate for Statistical Area 14 in July 1980 of 53,300 is 4600 squared (4,300 squared plus 900 squared plus 800 squared -- see Tables 4,5 and 6 in the Main Report). The variances of the column (total Statistical Area) and row (total month) estimates in Tables 4, 5, 6 and 7 of the Main Report are calculated as the sum of the variances of the individual entries.

In the months of November through February only one overflight per month for each day type was conducted. Consequently, variance estimates of the "snapshot" sport fishing boat counts (equation K.5) could not be calculated. However, approximate variance estimates were calculated from the pooled November and December data and from the pooled January and February data.

In those cases in which a sub-area catch or effort estimate of zero was realized, a variance estimate of zero was imputed.

K-10

PROPORTION OF MARKED SALMON

The proportion of marked salmon (coho or chinook) is calculated as a weighted average of Statistical sub-area proportion of marked salmon in the catch where the weights are relative sub-area catch. That is

$$\hat{W} = \Sigma \quad a_{i} \quad \hat{W}_{i}$$
 (K.13)
(sub-areas)

where W

is estimated Statistical Area proportion marked salmon

w is estimated sub-area proportion marked salmon, and a is the proportion of total statistical Area catch that the sub-area contributes.

Note that

$$\hat{w}_{i} = \frac{\sum_{\substack{(interviews j) \\ \overline{\Sigma} \\ (interviews j)}}^{\Sigma} (K.14)$$

where u_{ij} refers to the number of marked salmon and v_{ij} refers to the number of salmon inspected for marks.

A Taylor series approximation to the variance of W is

$$\hat{W}$$
ar $(\hat{W}) = \sum_{\substack{i \\ (sub-areas)}} a_i^2 \hat{V}$ ar (\hat{w}_i)

$$= \frac{\sum_{\substack{(\text{sub-area})}}^{\Sigma} \hat{w}_{i} (1 - \hat{w}_{i})}{\sum_{\substack{(\text{interviews j})}}^{\Sigma}}$$
(K.15)

An example of the procedure for statistical Area 14 in July 1930 is presented in Table K-2.

For thôse sub-areas in which the estimated proportion of marked fish is zero a variance estimate of zero is imputed.

÷.-

| | | | | • | |
|-----------|------------------------|--------------------|---------------------------|-------------------------|----------|
| | Mapped Landing Site | Relative Weight | Proportion Marked Fish | Number of Interviews | Variance |
| | | (1) | (2) | (3) | (4) |
| Coho | | | | | |
| 14K/L | CON | .244 | .063 | 1,203 | .0000029 |
| 14F/J | COC | .244 | .038 | 1,000 | .0000018 |
| 14C/D/E | QUN | .218 | .054 | 515 | .0000047 |
| 14A/B/G/H | QUS | .312 | .021 | 1,411 | .0000014 |
| All | žop | 1.000 | .042 | 4,129 | .0000108 |
| Chinook | | | | | |
| 14K/L | CON | .092 | .015 | 136 | .0000009 |
| 14F/J | COC | .188 | .000 | 166 | - |
| 14C/D/E | QUN | .125 | .000 | 62 | 4 |
| 14A/B/G/H | QUS | . 595 | .008 | 398 | ÷0000070 |
| All | ~ | 1.000 | .006 | 762 | .0000079 |

TABLE K-2: CALCULATION OF VARIANCES OF ESTIMATED PROPORTIONS OF MARKED COHO AND CHINOOK, STATISTICAL AREA 14, JULY 1980

(1) Table I-3

(2) Table I-3

(3) Table N-1 (4) =(1)² (2) $\begin{bmatrix} 1 - (2) \end{bmatrix} / (3)$

*The standard error is .003 rather than the .001 reported in Table 9 of the Main Report.

APPENDIX L

KEPT FISH SUMMARIES FROM THE GEORGIA STRAIT CREEL SURVEY RAW DATA

)

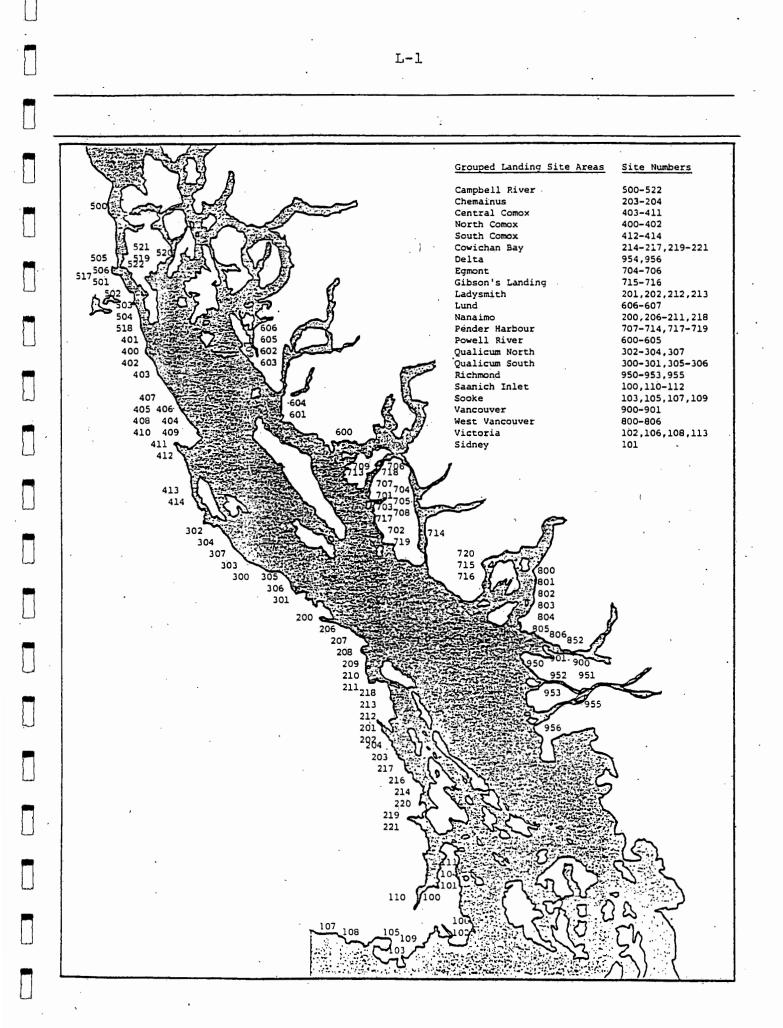


TABLE L-1: HEPP FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1920

2

| | No. of Interviews | | | | Kept Fi | sh | | | | | A | /erage | Murber K | ent Fish | per Bo | at Trip | 0 |
|------------------|----------------------|--------|--------------|-----|-----------|-----|-------|-----|-----------|------|------|--------|----------|----------|--------|---------|-----|
| Area of Landing | (Boat Trips) | CO | СН | SM | RF | DF | , LC | OF | SF | co | СН | SM | RF | DF | LC | UF | SF |
| Campbell River | 2,229 | 3,564 | 543 | 78 | 386 | 4 | 31.5 | 21 | 3 | 1.60 | .25 | .03 | .17 | - | .14 | .01 | - |
| Chemainus | 166 | 52 | 193 | 1 | 134 | - | -60 | 7. | 3 | . 31 | 1.10 | .01 | .81 | - | .36 | .04 | .02 |
| Central Comox | 824 | 1,002 | ´ 169 | 4 | 69 | 7 | 63 | 5 | - | 1.22 | .20 | .01 | .08 | .01 | .10 | .01 | - |
| North Comox | 630 | 1,206 | 136 | 35 | 69 | - | 1.60 | 3 | - | 1.91 | . 22 | .05 | .11 | - | . 25 | .01 | - |
| South Comox | í 65 | - 115 | 17 | - | 8 | - | 7 | - | - , | 1.77 | . 26 | - | .12 | - | .11 | | |
| Cowichan Bay | 224 | ·9 | 108 | 2 | 120 | 7 | 11 | 1.1 | 2 | .01 | . 48 | .01 | .54 | .03 | .05 | .05 | .01 |
| Delta | 159 | 102 | 96 | 5 | 73 | ំខ | 18 | 23 | - | .64 | .60 | .03 | . 46 | .05 | •.11 | .14 | |
| Egmont | 159 | 37 | 32 | - | 205 | - | 79 | 36 | - | .23 | . 20 | - | 1.29 | - | .50 | .23 | - |
| Gibson's Landing | 139 | 75 | 32 | - | ទ | 40 | 15 | 6 | 2 | . 54 | .23 | - | .06 | .29 | .11 | .04 | .01 |
| Ladysmith | 124 , | 49 | 92 | - | E7 | 1 | 14 | 23 | 2 | .40 | .74 | - , | .70 | .01 | .11 | .23 | .01 |
| Lund | 139 | 101 | 15 | - | 22 | - | 15 | 16 | - | .73 | .11 | - | .16 | - | .11 | .12 | - |
| Nanaimo | 962 | 948 | 354 | 13 | 57 | 1 | 77 | 20 | 2 | .99 | .89 | .01 | .06 | - | .03 | .03 | - |
| Pender Harbour | 343 | 1,330 | 265 | 4 | 227 | 2 | 202 | 45 | <u> -</u> | 1.57 | . 31 | .01 | .27 | - | .24 | .05 | _ |
| Powell River | 790 | - 331 | 173 | 27 | 129 | 1 | 123 | 16 | - | 1.05 | .22 | .03 | .16 | - | .16 | -02 | - |
| Qualicum North | 430 | 518 | 64 | 5 | 115 | 6 | 42 | 1 | - | 1.20 | .15 | .01 | . 27 | .01 | . 11 | - | - |
| Qualicum South | 923 | 1,415 | 403 | 13 | 85 | 5 | 36 | 3 | - | 1.53 | . 44 | .02 | .09 | .01 | .09 | _ | -` |
| Richmond | 136 | 68 | 33 | 18 | 15 | 'n | 7 | 2 | 2 | . 50 | .24 | .13 | .11 | .01 | .05 | .01 | .01 |
| Saanich Inlet / | 647 | 41 | 315 | 1 | 180 | 5 | 43 | 56 | 4 | .06 | .49 | .01 | .28 | .01 | .07 | .09 | .01 |
| Sooke | 1,047 | 737 | 239 | 17 | 125 | 8 | 64 | 81 | 18 | .75 | .23 | .02 | .12 | .01 | .06 | .07 | .02 |
| Vancouver | 235 | 126 | 137 | 23 | 49 | 14 | 20 | 3 | 1 | .54 | .58 | .10 | .21 | .06 | .09 | .03 | - |
| West Vancouver | 1,047 | 378 | 229 | 7 | 109 | 17 | 151 | 112 | 5 | . 36 | .22 | .01 | .10 | .02 | .14 | .11 | - |
| Victoria | 382 | 13 | 170 | - | 134 | 5 | 124 | 27 | 2. | .03 | .45 | - | . 35 | .01 | . 32 | .07 | - |
| Sidney | 212 | 15 | 92 | 2 | 105 | 2 | 36 | 27 | 9 | .07 | .43 | .01 | .50 | .01 | .18 | .13 | .04 |
| Total | 12,517 | 12,782 | 4,402 | 260 | 2,511 | 134 | 1,763 | 562 | 54 | 1.02 | . 35 | .02 | . 20 | .01 | .14 | .04 | - |

Legend: CO - Coho

CH - Chinook

DF - Dogfish

RF - Rockfish

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SM - Other Salmon or unidentified salmon

,

{

SF - Shellfish (0-1 variable)

L-2

AUGUST 1980 TABLE L-2: KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA,

| | No. of | | | | Kent | ſish | | • | | | ۸ver | age Jur | ber Kep | t Fish | ner Boa | t Trip | |
|-----------------|----------------------------|-------|-------|-----|-------|------|-------|-----|-----|------|------|---------|---------|--------|-------------|--------|-----|
| Area of Landing | Interviews (Boat Trips) | co | СН | SM | RF | DF | FC | UF | SF | CO | СН | SM | RF | DF | LC | UF | SF |
| Campbell River | 1,834 | 2,310 | 438 | 41 | 377 | 3 ' | 389 | 67 | 1 | 1.26 | .24 | .02 | . 20 | - | .21 | .04 | - |
| Chemainus | 107 | 33 | 49 | - | 03 | - | 24 | 10 | 2 | : 31 | .46 | - | .78 | - | .22 | .09 | .02 |
| Central Comox | 630 | 379 | 233 | 7 | 56 | 3 | . 37 | 3. | - | .60 | . 37 | .01 | .09 | - · | .06 | - | - |
| orth Comox | 639 | 756 | 135 | 23 | 167 | 3 | 255 | 6 | - | 1.16 | .29 | .04 | .26 | - | .40 | .01 | |
| South Comox | 63 | 46 | 29 | 1 | 16 | _ | 5 | - | - | . 76 | .46 | .02 | .25 | - | .08 | - | - |
| Cowichan Bay | 260 | 9 | 114 | · - | 202 | 1 | 12 | 10 | 3 | .03 | . 44 | - | .78 | - | .05 | .04 | .01 |
| elta | 285 | 123 | 108 | 12 | 70 | - | 83 | 68 | . 1 | .43 | .38 | .04 | .25 | - | . 29 | .24 | - |
| Sgmont | 116 | 3 | 13 | - | 156 | 1 | 62 | - | - | .03 | .13 | - | 1.34 | .01 | . 53 | í, - | - |
| ibson's Landing | 65 | 54 | 13 | 1 | 5 | 4 | 24 | - | - | .83 | .20 | .01 | .08 | .06 | . 37 | - | - |
| adysmith | 118 | 16 | 40 | 1 | 84 | 2 | 29 · | 15 | | .15 | . 34 | .01 | .71 | .02 | .25 | .13 | - |
| bund | 38 | 31 | 3 | - | 37 | - | 5. | 1 | - | .81 | .08 | - ` | .97 | - | .13 | .03 | - |
| lanaimo | 585 | 213 | 245 | 3 | 107 | - | 108 | 21 | 1 | . 37 | . 42 | .01 | .18 | - | .18 | .04 | - |
| ender Harbour | 771 | 763 | 161 | 1 | 462 | - | 204 | 10 | 1 | .99 | .21 | - | .60 | - | .26 | .01 | - |
| owell River | 475 | 299 | 128 | 8 | 94 | 6 | 68 | 13 | | .63 | . 27 | .02 | .20 | .01 | .14 | .03 | - |
| ualicum North | 503 | 306 | 100 | 19 | 254 | 2 | 49 | 7 | - | .61 | .20 | .04 | .51 | - | . io | .01 | - |
| ualicum South | 584 | 410 | 275 | 7 | 80 | 3 | 74 | 3 | - | .70 | . 47 | .01 | .14 | .01 | .13 | .01 | - |
| lichmond . | 136 | 64 | 42 | 4 | 24 | | - | 9 | - | .47 | . 31 | .03 | . 18 | - | - | .07 | - |
| aanich Inlet | 587 | 46 | 472 | 1 | 120 | - | 35 | 51 | 3 | .08 | .80 | - | .20 | - | .06 | .09 | .0 |
| ooke | 681 | 309 | 252 | 14 | 131 | 2 | 70 | 17 | 6 | . 45 | . 37 | .02 | . 19 | - | .10 | .03 | .0 |
| ancouver | 241 | 208 | 78 | 27 | 28 | | 5 | 2 | 1 | .86 | . 32 | .11 | . 11 | - | .02 | .01 | - |
| est Vancouver | 1,031 | 580 | 78 | 61 | 1.04 | · 9 | 53 | 50 | 2 | . 56 | .07 | .06 | .10 | .01 | .05 | .05 | - |
| ictoria | 309 | 7 | 175 | - | 179 | 1 | 125 | 12 | 1 | .02 | .57 | - | .58 | - | .40 | .04 | - |
| idney | 141 | 10 | 54 | 1 | 112 | 2 | 18 | 2 | 1 | .07 | . 38 | .01 | . 79 | .01 | .13 | .01 | .01 |
| otal | 10,199 | 6,992 | 3,285 | 232 | 2,947 | 42 | 1,734 | 377 | 23 | .68 | . 32 | .02 | .29 | `_ | .17 | .04 | |

Legend: CO - Coho

CH - Chinook

RF - Rockfish DF - Dogfish

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SM - Other Salmon or unidentified salmon

SF - Shellfish (0-l variable)

F ŵ

| | No. of | | | | Kept F | ish | | | | | Aver | age Num | ber Kep | t Fish | per Boa | t Trip | |
|------------------|----------------------------|-------|-------|----|--------|------------|------------|----------|------------|------|------|--------------|---------|--------|---------|--------|-----|
| Area of Landing | Interviews (Boat Trips) | СО | СН | SM | RF | DF | , rc | UF | SF | co | СН | SM | RF | DF | LC | UF | 5 |
| Campbell River | 559 | 638 | 111 | - | 142 | - | 332 | 1 | - | 1.50 | . 20 | - | .25 | - | .59 | - | • _ |
| Chemainus | 36 | 3 | 31 | - | 24 | - | 8 | 3 | 1 | .08 | . 86 | - | .67 | - | . 22 | . 08 | .0 |
| Central Comox | 186 | 76 | · 52 | 1 | 9 | - | 31 | 2 | - | .41 | . 28 | .01 | .05 | - | .17 | .01 | - |
| North Comox | 146 | 143 | 22 | 1 | · 15 | - | 21 | 1 | - | .98 | .15 | .01 | .10 | - | .14 | .01 | - |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 124 | 14 | 38 | - | 77 | - | 26 | 3 | 1 | .11 | .31 | - | .62 | - | .21 | .06 | .0 |
| Delta | 50 | 33 | 12 | 1 | 2 | 2 | 1 | - | - | .66 | .24 | . Ó 2 | .04 | .04 | .02 | - | |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | 50 | 31 | 14 | - | 5 | - | 10 | _ · | - | .62 | .28 | - | .10 | - | .20 | - | · _ |
| Ladysmith | 65 | 11 | 52 | - | 24 | - | 5 | 5 | - | .17 | .80 | - | . 37 | - | .08 | .08 | - |
| Lund | 7 | 1 | 1 | - | - | | _ ` | - | - | .14 | .14 | - | - | - | - | - | - |
| Nanaimo | 139 | 58 | 40 | 5 | 61 | - | 32 | 1 | - | .42 | . 29 | .04 | .44 | - | .23 | .01 | - |
| Pender Harbour | 115 | 97 | 44 | 1 | - 27 | - | 19 | · 9 | 2 | .84 | . 38 | .01 | .23 | - | .17 | .08 | .02 |
| Powell River | 78 | 44 | 22 | 1 | 27 | - | 13 | 1 | - | . 56 | .28 | .01 | . 35 | - | .17 | .01 | - |
| Qualicum North | 124 | . 75 | 37 | 1 | 31 | - | ó | 2 | - | .60 | .30 | .01 | .25 | - | .05 | .01 | - |
| Qualicum South | 221 | 118 | 94 | 7 | 28 | ` 1 | 13 | 1 | - | .53 | .43 | .03 | .13 | - | .0ó | - | - |
| Richmond | 98 | 44 | 37 | 6 | 1 | - | 1 | 1 | - ` | .45 | . 38 | .06 | .01 | | .01 | .91 | |
| Saanich Inlet | 356 | 75 | 356 | 1 | 111 | 4 | 12 | 19 | 4 | .21 | 1.00 | - | . 31 | .01 | .03 | .05 | .0 |
| Sooke | 289 | 116 | 270 | 7 | 50 | 1 | 29 | 39 | 3 | .40 | .93 | .02 | .17 | - | .10 | .13 | .0 |
| Vancouver | 154 | 36 | 23 | 2 | 28 | - | 11 | 4 | | .64 | .15 | .01 | .18 | • | .07 | .03 | - |
| West Vancouver | 322 | 200 | 40 | 6 | 18 | 1 | 15 | 22 | 1 | .62 | .12 | .02 | .06 | .01 | .05 | .07 | |
| Victoria | 164 | 4 | 81 | - | 72 | - | 52 | 8 | - | .02 | . 49 | - | . 44 | - | . 32 | .05 | - |
| Sidney | 54 | 2 | 15 | - | 50 | 4 | 7 | 9 | 1 | .04 | .28 | - | .93 | .07 | .13 | .17 | .0 |
| Total | 3,337 | 2,081 | 1,392 | 40 | 802 | 13 | 644 | 136 | 13 | .62 | .42 | .01 | . 24 | | .19 | .04 | - |

KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, SEPTEMBER 1960 TABLE L-3:

CH - Chinook

- 2

SM - Other Salmon or unidentified salmon

DF - Dogfish

UF - Other fish or Unidentified Fish (non salmon)

SF - Shellfish (0-1 variable)

L-4

TABLE L-4:

OCTOBER 1980 KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, •

| | No. of Interviews | | | | Kept f | ish | | | | | Avera | je Numbe | r Xent | Fish pe | r Soat | Trip | |
|------------------|----------------------|-----|-------|----|------------|----------------|-----|-----|------------|------|-------|----------|--------|------------|--------|------------------|----------------|
| Area of Landing | (Boat Trips) | со | СН | SM | RF | DF | LC | UF | SF | C0 | Сн | ŚM | RF | DF | rc. | UF | SF |
| Campbell River | 179 | 198 | 37 | 10 | 72 | - | 131 | - | | 1.11 | .21 | .06 | . 40 | · - · | . 73 | . - ' | - |
| Chemainus | | | | | | | | | | | | | | | | | • |
| Central Comox | 46 | 11 | , 3 | 19 | 3 | · _ | 8 | - | - | . 24 | .07 | .41 | .04 | - | .17 | | . , |
| North Comox | 5 | 3 | 1 | - | - · | - | - | - | - | .60 | .20 | - | - | - ' | - | - | - |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 6 | - 1 | 3 | - | - | - | - | | | .17 | .50 | | - | - | - | · _ | - |
| Delta | | | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | 23 | 9 | 2 | - | 1 | 1 | 2 | - | - | . 39 | .09 | _ · | .04 | .04 | .09 | · _ | _ |
| Ladysmith | | | | | | | • | | | . • | | | | | | | |
| Lund | | | | | | | | | | • | | | | | | | |
| Nanaimo | 301 | 103 | 263 | 2 | 73 | 1 | 40 | · _ | 1 | . 34 | .87 | .01 | .24 | - | .13 | - | - |
| Pender Harbour | . 67 | 5 | 18 | 2 | 44 | - | 8 | `- | - | .07 | . 27 | .03 | .66 | - | .12 | - | - |
| Powell River | . 113 | 41 | 166 | 2 | 10 | | 5 | 2 | - ' | .36 | 1.47 | .02 | .09 | - | .04 | .02 | - |
| Qualicum North | | | | | | | | | | • | | | | | | | |
| Qualicum South | 94 | 60 | 50 | 2 | 32 | 1 | 3 | 2 | - | .64 | .53 | .02 | . 34 | .01 | .03 | .02 | - |
| Richmond | 21 | 7 | 4 | - | - | - | 1 | - | - ' | . 33 | .19 | - | - | - | .05 | - | - |
| Saanich Inlet | 319 | 76 | 244 | 3 | 86 | 4 | 14 | 25 | 1 | .24 | .76 | .01 | .27 | .01 | .04 | .08 | 2 |
| Sooke | 588 | 99 | 543 | 3 | 257 | - | 104 | 41 | 13 | .17 | .92 | .01 | . 44 | - | . 18 | .07 | . ó2 |
| Vancouver | 28 | 1 | 10 | ~ | - | - | - | 1 | · 1 | .04 | . 36 | - | - | - | - | .04 | .04 |
| West Vancouver | 166 | 8 | 36 | 1 | 10 | , - | 21 | 25 | <u> </u> | 05 | .23 | .01 | .06 | - | .13 | .15 | - |
| Victoria | 132 | 8 | 33 | - | 49 | - | 58 | 8 | - | ,06 | .25 | - | .37 | - | . 44 | .06 | - |
| Sidney | 41 | - | 12 | - | 27 | - | 11 | 6 | - | - | .29 | | .66 | - | . 27 | .15 | - |
| Total | 2,129 | 630 | 1,427 | 44 | 663 | 7 | 406 | 110 | 16 | . 30 | .67 | .02 | . 31 | - | . 19 | .05 | .01 |

Legend: CO - Coho

RF - Rockfish DF - Dogfish

LC - Ling Cod

CH - Chinook

SM - Other Salmon or unidentified salmon

.

UF - Other fish or Unidentified Fish (non salmon)

SF - Shellfish (0-1 variable)

н ហ់

TABLE L-5:

.

NOVEMBER 1980 KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA,

| • | No. of | | | | Kept F | ish | | | | _ | Avera | ige Numb | er Kent | Fish p | er Roat | Trio | |
|-----------------|----------------------------|-----|------|----|--------|-----|----|----|----|----------------|-------|----------|---------|--------|---------|------|------------|
| Area of Landing | Interviews (Boat Trips) | co | СН | SM | RF | DF | tc | HP | SF | 0 | СН | SM | RF | DF | LC | UP | SF |
| Campbell River | 16 | - | 8 | - | - | - | 22 | - | - | - | .50 | - | - | - | 1,38 | | - |
| Chemainus | • | | | | | | | | | | | | | | | | |
| Central Comox | 38 | , - | , 18 | 4 | - | - | 2 | - | - | - | .47 | .11 | | - | .05 | - | - |
| North Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 32 | 12 | 47 | 7 | 6 | 1 | 2 | - | | . 38 | 1.47 | . 22 | .19 | .03 | .06 | - | - |
| Delta | | | | | | | | | | | | | | | 1 | | |
| Egmont | | | | | | | | | | | | • | | | | | |
| ibson's Landing | | | | | | | | | | | | · | | | | | |
| adysmith | | | | | | | | | | | | | | | | | |
| Lund | | | | | | | | | | | | | | | | | |
| Nanaimo | 41 | 10 | 78 | - | 1 | - | 7 | - | - | . 25 | 1.90 | - | .02 | - | .17 | - | - |
| Pender Harbour | 43 | - | 52 | 1 | 4 | - | 1 | - | - | - | 1.21 | .02 | .09 | - | .02 | - | - |
| Powell River | 12 | 1 | 21 | - | - | - | - | - | ÷ | .08 | 1.75 | - | - | - | - | - | , - |
| Qualicum North | | | , | | | | | | | | | | | | | | |
| Qualicum South | . 6 | - | 4 | - | - | - | - | - | - | 1 | .67 | - | - | | - | - | ~ |
| Richmond | | | | | | | | | | | | | | | | | |
| Gaanich Inlet | 93 | 53 | 122 | - | 17 | - | 5 | - | 1 | .57 | 1.31 | - | ,18 | - | .05 | - | .01 |
| Sooke | 99 | 16 | 157 | 1 | 20 | - | 4 | | 6 | · .ì6 | 1.59 | .01 | .20 | - | .04 | - | .06 |
| ancouver | 44 | - | 27 | - | 1 | - | 2 | 2 | 2 | ` - | .61 | - | .02 | - | .05 | .05 | .05 |
| lest Vancouver | 57 | - | 46 | - | - | - | - | 6 | - | - | .81 | - | - | - | - | .11 | - |
| lictoria | 28 | 7 | 52 | - | 3 | - | 1 | - | 1 | .25 | 1.86 | - | .11 | - | .04 | - | .04 |
| Sidney | 24 | - | 10 | - | 8 | - | 1 | - | - | - | .42 | - | .33 | - | .04 | - | - |
| Total | 533 | 99 | 642 | 13 | 60 | 1 | 47 | 8 | 10 | . 19 | 1.20 | .02 | .11 | - | .09 | .02 | .02 |

Legend: CO - Coho

CH - Chinook

RF - Rockfish

DF - Dogfish SM - Other Salmon or unidentified salmon

LC - Ling Cod UF - Other fish or Unidentified Fish (non salmon)

SF - Shellfish (0-1 variable)

1

KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER 1980 TABLE L-6:

| | No. of | | | к | ept fis | h | | | | A | verage M | unber | Kept Fis | sh per | Boat Tr | ip ' | |
|-----------------|----------------------------|--------------|------|-------------|---------|------------|----|-----|----|----------------|----------|-------|----------|--------|---------|----------------|-----|
| Area of Landing | Interviews (Boat Trips) | со | Сн | SM | RF | DF | LC | UF | SF | 0 | Сн | SM | RF | DF | LC | UF | S |
| Campbell River | 16 | - | 29 | `. - | - | - | 5 | - | - | - | 1.81 | - | - | - | . 31 | - | - |
| Chemainus | | | | ŕ | | | | | | | | | | | | | |
| Central Comox | 11 | - | . 14 | - | - | | 3 | - | - | - | 1.27 | - | - | - | .27 | - | - |
| lorth Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 8 | - | 18 | - | - | - | - | - | - | - | 2,25 | - | _ | _ | - | - | - |
| Delta | 1 | | | | | | | | | | | | | | | | |
| Egmont | | | | | - | | | | | | | | 7 | | | | |
| ibson's Landing | | | | | | | | | | | | | | | | | |
| adysmith | | | | | | | | | | | | | | | | | |
| und | | | | | | | | | | | | | | | | | |
| lanaimo | 51 | ~ | 90 | - | - | - | - | · _ | 1 | - | 1.76 | - | - | - | - | <u>_</u> . | .02 |
| ender Harbour | 31 | - | 24 | - | 13 | - | - | 3 | - | - | .77 | - | . 42 | - | - | . 10 | - |
| owell River | 7 | 15 | - | · _ | - ' | - | - | - | | 2.14 | _ | - | - | - | - | - | - |
| ualicum North | | | | | | · . | | | | | | | | | | | |
| ualicum South | | | | | | | | | | | | | | | | | |
| lichmond | | | | | | | | | | | | | | | | | |
| aanich Inlet | 70 | 82 | 97 | - | 15 | - | - | 3 | - | 1.17 | 1.39 | - | .21 | - | - | .04 | - |
| ooke | 116 | 5 | 159 | - | 37 | - | - | 1 | 10 | .04 | 1.37 | - | . 32 | - | _ | .01 | .02 |
| ancouver | - 13 | - | 10 | - | 1 | - ' | - | 4 | - | ~ | .77 | - | .08 | - | - | . 31 | - |
| est Vancouver | 46 | - | 41 | ÷ | 1 | - | - | - | - | - | .89 | - | .02 | - | - | - | - |
| ictoria | 33 | 2 | 54 | - | 7 | - | - | - | - | .06 | 1.64 | - | .21 | - | - | - | · _ |
| idney | 5 | . | 9 | - | 1 | - | - | - | - | - . | 1.80 | - | . 20 | - | - | - ' | - |
| otal | 407 | 104 | 545 | 0 | 75 | . 0 | 6 | 11 | 11 | .26 | 1.34 | 0 | .18 | · 0 | .02 | .03 | .03 |

Legend: CO - Coho

RF - Rockfish DF - Dogfish

LC - Ling Cod

CH - Chinook

SM - Other Salmon or unidentified salmon

UF - Other fish or Unidentified Fish (non salmon) SF - Shellfish (0-1 variable)

ដ

| | No. of Interviews | | | | Cent Fi | sh | | | | | Aver | age tlur | aber Kep | t Fish | per Bo | at Trip | |
|------------------|----------------------|------|------|------------|---------|----|-----------|----|-----|------|------|------------|----------|--------|-------------|------------|------|
| Area of Landing | (Boat Trips) | , co | CH | SM | RF | DF | LC | UF | SF | ω | СН | SM | RF | DF | LC | UF | S |
| Campbell River | 33 | 1 | 53 | - | - | - | 4 | - | - | .03 | 1.61 | - | - | - | .12 | - | - |
| Chemainus | | | | | | | | | | | | | | | | | |
| Central Comox | 38 | - | · 65 | - | - | - | 10 | - | - | - | 1.71 | - | - | - | .26 | - · | - |
| North Comox | | | | | | | | | ` | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 61 | 1 | 86 | - | 54 | - | - | 16 | 1 | .02 | 1.44 | - | . 89 | - | - | . 26 | .02 |
| Delta | | | | | | | | | • | | | | | | | | |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | • | | | | |
| adysmith | 33 | 10 | 88 | - | 12 | - | - | 3 | - | . 30 | 2.67 | - | .36 | · _ | - | .09 | |
| Lund | | | | | | | | | | | | | | | | | |
| lana imo | 95 | 14 | 233 | - | 14 | | - | - | - | . 15 | 2.45 | - | .15 | - | | - | - |
| Pender Harbour | 38 | - | 13 | · 1 | 6 | - | · | ŀ | - | - | . 34 | .03 | .16 | - | - | .03 | - |
| Powell River | 9 | 10 | 2 | - | - | - | - | - | - | 1.11 | . 22 | - | - | - | - | - | - |
| Qualicum North | | | | | | | | | | | | | | | | | |
| Qualicum South | 8 | 14 | 13 | | | - | - | - | - | 1.75 | 1.63 | - | - | | - | | - |
| Richmond | | | | - | | | | | | | | | | | | | |
| Saanich Inlet | 230 | 166 | 320 | - | 97 | - | 5 | 1 | 3 | .72 | 1.39 | - | 42 | - | .02 | - | .01 |
| Sooke | 239 | 10 | 256 | - | 83 | 1 | ó | - | 11 | ,08 | 1.07 | - | . 35 | - | .03 | - | .05 |
| Vancouver | 85 | 2 | -69 | | 1 | - | 2 | 5 | 3 | .02 | .81 | - | .01 | | .02 | .06 | .04 |
| lest Vancouver | 98 | · _ | 64 | . . | 1 | 1 | 2 | 6 | - | - | .65 | - | .01 | .01 | .02 | .06 | - |
| lictoria | 98 | ľo | 134 | - | 32 | - | - | | · _ | .10 | 1.37 | - · | . 33 | - | · _ | - | - |
| Sidney | 58 | - | 123 | - | 7 | - | - | 99 | 6 | - | 2.12 | - | .12 | - | - | 1.71 | . 10 |
| | | | | | | | | | | | | | | | | | |

TABLE L-7: KEFT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY 1981

Legend: CO - Coho

CH - Chinook

.

RF - Rockfish DF - Dogfish

LC - Ling Cod

SM - Other Salmon or unidentified salmon

UF - Other fish or Unidentified Fish (non salmon)

L-8

SF - Shellfish (0-1 variable)

÷.,

~

KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEDRUARY 1981 TABLE L-8: •

| | No. of | • | | | Kept F | ich | | | | | huorage | Munha | r Kont i | Fish per | Bost | Turin ' | • |
|------------------|----------------------------|--------|-------|------------|------------|-----|----|-----|-----|--------|---------|------------------|--------------|----------|-----------|---------|------|
| Area of Landing | Interviews (Boat Trips) | CO | CH | SM | RF | DF | LC | UF | SP | 00 | CH | 5 1101.208 6M | RF | DP | LC | UF | SI |
| | | | | | | | • | | | | | | • | | | | |
| Campbell River | 27 | | 35 | | - | - | 4 | - | - | - | 1.30 | - | | - | .15 | - | - |
| Chemainus | | | | • | | | | | | | | | | | , | | |
| Central Comox | 21 | - | · 11 | | - ` | - | - | -' | - | - | .52 | - | _ | - | - | - | - |
| North Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 26 | 6 | 4 | - | 53 | - | - | 46 | 2 | .23 | .15 | - | 2.04 | - | - | 1.77 | .08 |
| Delta | | | | | | | | | | | ŝ | | | | | | |
| Egmont | | - | | | | | | | | | | | | • | | | |
| Gibson's Landing | | | | • | | | | | | | | | | | | • | |
| Ladysmith | 26 | · 2 | 20 | - | 22 | | - | 1 | - | .03 | .77 | - | .85 | - | | .04 | - |
| Lund | | | | · | | | | | | | | | | | | | |
| Nanaimo | 87 | 9 | 287 | - | 14 | 3 | 1 | 1 | 3 | .10 | 3.30 | - | .16 | .03 | .01 | .01 | .03 |
| Pender Harbour | 42 | ~ | 10 | - | 25 | - | - | - | - | - | , 24 | - | .60 | - | - | - | |
| Powell River | 4 | 5 | . 1 | - | - | - | - | - | - | 1.25 | .25 | - | - | - | <u> -</u> | - | - |
| Qualicum North | | | | | | | | | . ' | | | | | | | | |
| Qualicum South | 10 | ° 3 | 20 | - | - | - | - | ÷ | . – | . 30 | 2.00 | - | - | - | - | - | - |
| Richmond | ' | | | • | | | | | | | | | | | | | |
| Saanich Inlet | 198 | 67 | 99 | - | 103 | - | 2 | 172 | 1 | . 34 | .50 | - | .52 | - | .01 | .87 | .01 |
| Sooke | 182 | 48 | 283 | - | 52 | - | 4 | - | 2 | .26 | 1.55 | - | . 29 | - | .02 | - | : Ó1 |
| Vancouver | 68 | - | 37 | - | 3 | - | - | 2 | 1 | · | .54 | - | .04 | _ | - | .03 | .01 |
| West Vancouver | 83 | 1 | 50 | - ' | - | 2 | 2 | 7 | - | .01 | .60 | - | - | .02 | .02 | .08 | - |
| Victoria | 120 | 35 | 115 | - | 45 | - | 4 | - | 2 | . 30 | .96 | - | .38 | | · .03 | - | .02 |
| Sidney | 51 | 1 | 41 | - | 8 | 1 | - | 279 | 4 | .02 | .80 | - | ,16 | :02 | - | 5.47 | .08 |
| Total | 945 | 177 | 1,013 | 0 | 325 | 6 | 17 | 503 | 15 | . 19 | 1.07 | 0 | .34 | .01 | .02 | .54 | .02 |

Legend: CO - Coho

RF - Rockfish

LC - Ling Cod

CH - Chinook

DF - Dogfish

UF - Other fish or Unidentified Fish (non salmon) SF - Shellfish (0-1 variable)

.

SM - Other Salmon or unidentified salmon

| | No. of | | | | Kent | Fish . | | | | | Ave | rage M | umber Ke | ant Fich | Der Bo | at Trin | |
|------------------|----------------------------|-----|-----|--------|------|--------|--------|-----------|-----|------|------|--------|----------|----------|--------|---------|-----|
| Area of Landing | Interviews (Boat Trips) | со | СН | SM | RF | DF | LC | UF | SF | 0 | СН | SM | | DF | LC | UF | SI |
| Campbell River | 22 | 10 | 9 | _ | 5 | - | , 9 | 1 | _ ` | .45 | .41 | | .23 | | 47 | | |
| Chemainus | | | - | | 2 | | | • | | | .41 | - | .23 | - | .41 | .05 | - |
| Central Comox | 13 | _ | · - | · _ | - | - | 1 | - | _ | _ | _ | _ | _ | | .08 | | |
| North Comox | | | | | | | • | | | _ | - | - | - | - | .08 | - | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 18 | 4 | 9 | - | 23 | - | - | - | _ | .22 | .50 | _ | 1.28 | | | | |
| - Delta | | - | - | | | | | | | | . 50 | - | 1.20 | - | - | - | - |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | | | | | | • | | | | | | | | | | . • | |
| adysmith | 5 | 3 | 2 | _ | 5 | - | - | 1 | - | .60 | . 40 | _ | 1.00 | _ | | .20 | _ |
| und | | | | | | | | - | | | ,40 | | 1.00 | - | - | .20 | - |
| Manaimo | 85 | 28 | 106 | - | 12 | - | - | ÷ | 1 | .33 | 1.25 | - | .14 | _ | _ | _ | .01 |
| Pender Harbour | 46 | 14 | 12 | - | 15 | - | - | 2 | - | .30 | ,26 | - | .33 | _ | _ | .04 | .01 |
| Powell River | 3 | - | 3 | - | - | - | - | _ | - | - | 1.00 | - | - | - | _ | - | - |
| Qualicum North | | | | | | | | | | | | | | | | | |
| Qualicum South | 15 | 6 | 25 | - | - | - | | <u></u> : | - | .40 | 1.67 | - | - | · - | - | · _ | - |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 183 | 41 | 68 | - | 62 | _ | 5 | 93 | 2 | .22 | . 37 | _ | . 34 | _ | .03 | .51 | .01 |
| Sooke | 164 | 91 | 120 | 7 | 53 | - | 4 | 2 | - | . 55 | .73 | .04 | . 32 | - | .02 | .01 | - |
| ancouver - | J 58 | 9 | 21 | - | 'n | - | 4 | - | - | .16 | . 36 | - | .19 | - | .07 | - | - |
| lest Vancouver | 107 | - | 56 | - | 12 | 1 | 6 | 1 | - | - | .52 | - | .11 | .01 | .06 | .01 | - |
| lictoria | 61 | 82 | 40 | 11 | 44 | 1 | 9 | 1 | - | 1.34 | .66 | .18 | .72 | .02 | .15 | .02 | - |
| Sidney | 25 | - | 14 | - | 12 | - | 2 | 30 | 1 | - | . 56 | - | .48 | - | .08 | 1.20 | .04 |
| otal | | | | • | | | | | | | | | | | | | |
| OLAI | 805 | 288 | 485 | 18 | 254 | 2 | 40 | 131 | 4 | . 36 | . 60 | .02 | . 32 | - | .05 | .16 | .01 |

RF - Rockfish

DF - Dogfish

KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCE 1981 TABLE L-9:

Legend: CO – Coho

CH - Chinook

SM - Other Salmon or unidentified salmon

LC - Ling Cod

.

UF - Other fish or Unidentified Fish (non salmon)

SF - Shellfish (0-1 variable) .

÷

L-10

,

. KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL 1981 TABLE L-10: . -

| | No. of | • | | Ke | pt Físh | | | | | | Avera | ge Nurl | ber Kept | Fish p | er Boat | Trip | |
|------------------|----------------------------|------|-----|----|---------|----|------------|-----|----|------|-------|---------|----------|--------|---------|------------|-----|
| Area of Landing | Interviews (Boat Trips) | со | СН | SM | RF | DF | , rc | UF | SF | , co | СН | SM | RF | DF | rc | UF | SI |
| Campbell River | 46 | 22 | 6 | - | 32 | - | 53 | 1 | - | . 48 | .13 | - | .70 | - | 1.15 | .02 | • - |
| Chemainus | | | | | | | | | | | | | | | | | |
| Central Comox | 52 | 84 | 25 | - | - | - | · _ | - ` | - | 1.62 | .48 | _ | - | - | - | - | |
| Iorth Comox | i , | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | , | | • | |
| Cowichan Bay | 12 | 2 | - | - | 17 · | - | 10 | - | 1 | .17 | - | - | 1.42 | _ | .83 | • _ | .08 |
| Delta | - | | | | | | | | | | | | | | | • | |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | | | | · | | | | | | - | | | | | | | |
| Ladysmith | 5 | 1 | 1 | - | - 15 | - | - | - | - | . 20 | . 20 | - | 3.00 | - | - | | - |
| und | | | | | | | | | | | | | | . • | | | |
| lanaimo | 71 | 71 | 23 | - | 10 | - | 16 | - | | 1,00 | .32 | - | .14 | - | .23 | <u>_</u> | - |
| ender Harbour | 60 | -14 | 4 | - | 16 | - | 3 | - | 1, | .73 | .07 | - | .27 | - | .05 | - | .02 |
| owell River | а | - | 8 | _ | - | - | б | - | - | - | 1.00 | | | - | .75 | _ · | - |
| Qualicum North | | •. | | | | | | | | | | | | | | | • |
| Jualicum South | 20 | · 30 | 5 | - | - | - | - | - | - | 1.50 | . 25 | - | - | - | - | - | - |
| Richmond | , | | | | | | • | | | | | | | | | | |
| Saanich Inlet | 95 | 4 | 60 | - | 41 | - | 8 | 3 | - | .04 | .63 | - | .43 | - | .08 | .03 | - |
| iooke | 242 | 79 | 97 | 9 | 159 | - | -59 | 13 | 10 | . 33 | .40 | .04 | .66 | - | . 24 | .05 | .04 |
| ancouver | 29 | - | 17 | - | 14 | - | 3 | 2 | - | - | . 59 | - | . 48 | - | . 10 | .07 | - |
| lest Vancouver | 65 | | 17 | - | 5 | - | 4 | 4 | - | - | . 26 | - | .08 | - | .06 | .06 | - |
| lictoria | 11 | 8 | · 2 | 2 | 2 | - | 4 | - | - | .73 | .18 | .18 | . 18 | - | . 36 | - | - |
| idney | 17 | 2 | 1 | 2 | 13 | - | 8 · | | 1. | .12 | .06 | .12 | 1.06 | - | .47 | - | .06 |
| otal | 733 | 347 | 266 | 13 | 329 | 0 | 174 | 23 | 13 | .47 | . 36 | .02 | .45 | 0 | .24 | .03 | .02 |

CH - Chinook

DF - Dogfish

SM - Other Salmon or unidentified salmon

F

- LC Ling Cod UF Other fish or Unidentified Fish (non salmon)
- SF Shellfish (0-1 variable)

L-11: KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY 1981 TABLE

| | No. of | | | , | Keot F | ish | | | | | Average | Number | Kept F | ish per | Boat T | rin | |
|------------------|--------------|----------|-------|-----|----------------|------------|------|-----|----|------|---------|--------|--------|---------|--------|------|------|
| Area of Landing | (Boat Trips) | со | СН | SM | RF | DF | , rc | UF | SF | ĊO | СН | SM | RF | DF | LC | UF | S |
| Campbell River | 394 | 273 | 216 | 1 | 140 | - | 184 | 113 | 1 | . 69 | .55 | - | . 36 | - | . 47 | . 29 | - |
| Chemainus | | | | | | | | | | | | | | | | | |
| Central Comox | 293 | 442 | , 175 | 25 | 23 | 2. | 51 | 2 | 1 | 1.51 | ,60 | .09 | .08 | .01 | .17 | .01 | - |
| North Comox | 196 | 679 | . 9 | 4 | 2 | - . | 16 | - | - | 3.46 | .05 | .02 | .01 | - | .09 | - | |
| South Comox | | | • | | | | | | | | | | | | | | |
| Cowichan Bay | 31 | 4 | 9 | - | 36 | - | 4 | - | 1 | .13 | . 29 | - | 1.16 | - | .13 | - | .0 |
| Delta | | | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | 28 | 9 | 34 | - | 6 | - | 15 | - | - | .32 | 1.21 | - | .21 | · _ | .54 | · - | - |
| adysmith | 2 | <u>-</u> | - | · _ | 1 | - | - | - | - | | - | - | .50 | - | - | - | - |
| Lund | 12 | 6 | - | - | - · | - | .3 | - | 2 | .50 | | - | - | - | .25 | - | .1 |
| Vanaimo | 122 | 168 | 40 | - | 26 | · 1 | 13 | · 1 | 3 | 1.38 | .33 | - | .21 | .01 | .11 | .01 | .0 |
| Pender Harbour | 62 | 41 | 45 | 2 | 17 | - | 21 | - | - | .66 | .73 | .03 | .27 | - | . 34 | - | - |
| Powell River | 93 | 85 | 13 | 3 | 9 | - | 24 | 1 | 2 | .91 | .14 | .03 | .10 | - | .26 | .01 | .0 |
| Qualicum North | 63 | · 168 | 12 | - | 15 | - | 10 | - | - | 2.67 | . 19 | - | .24 | - | .16 | - | - |
| Qualicum South | 549 | 951 | 264 | 3 | 27 | - | 9 | 2 | - | 1.73 | . 48 | .01 | .05 | - | .02 | - | - |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 320 | 7 | 274 | - | 68 | - | 28 | 1 | 1 | .02 | .86 | - | .21 | - | .09 | - | - |
| Sooke | 505 | 71 | 216 | 2 | 103 | - | 119 | 48 | 4 | . 14 | .43 | - | .21 | . + | .24 | .10 | .0 |
| Vancouver | 107 | 11 | 79 | - | 14 | 6 | 10 | 1 | - | .10 | .74 | - ` | .13 | .06 | .09 | .01 | - |
| Nest Vancouver | 325 | 22 | 183 | - | 99 | 12 | 85 | 12 | 1 | .07 | .56 | | . 30 | .04 | . 26 | .04 | - |
| Victoria | 149 | 1 | 88 | - | 58 | - | 95 | 39 | - | .01 | . 59 | - | . 39 | · _ | .64 | .26 | _ |
| Sidney | 136 | - | 93 | - | 41 | | 31 | 7 | 5 | - | .68 | - | .30 | - | .23 | .05 | .0 |
| Total | 3,387 | 2,938 | 1,750 | 40 | 690 | 21 | 720 | 227 | 21 | .87 | , 52 | .01 | . 20 | .01 | .21 | .07 | · .0 |

Legend: CO - Coho

- CH Chinook
- SM Other Salmon or unidentified salmon

RF - Rockfish

DF - Dogfish

LC - Ling Cod

.

- UF Other fish or Unidentified Fish (non salmon)
- SF Shellfish (0-1 variable)

.

L-12

-

1

L-13

| | · . | | | | |
|---|-----|--|---|---|---|
| | | | • | | e |
| | | | | • | |
| • | • | | | | |
| | | | | | |

TABLE L-12: KEPT FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JUNE 1981 •

| | No. of Interviews | | | | Kept i | Fish | | | • | | Average | lumber | Kept F | ish ner | Boat ' | riç | |
|------------------|----------------------|-------|-------|------------|--------|------|-------|-----|------------|-------------|---------|---------|----------|---------|--------|------------|-----|
| Area of Landing | (Boat Trips) | со | СН | SM | RF | DF | , LC | UF | SF | œ | СН | SM | RF | DF | LC | UF | SF |
| Campbell River | 572 | 782 | 170 | -0 | 97 | 5 | 175 | 97 | 1 | 1.37 | .30 | .01 | .17 | .01 | . 31 | .17 | - |
| Chemainus | 74 | 20 | 76 | - | 58 | 3 | 46 | 9 | | .27 | 1.03 | - | .73 | .04 | .62 | .12 | - |
| Central Comox | 406 | 663 | 155 | 60 | 39 | 1 | 29 | - | | 1.65 | . 38 | .15 | .10 | | .07 | - | - |
| North Comox | 601 | 1,923 | 56 | 71 | 28 | 1 | 114 | 3 | 5 | 3.20 | .09 | .12 | .05 | - | .19 | .01 | .01 |
| South Comox | | | | | | | • | | | | | | | | | | |
| Cowichan Bay | 66 | 6 | 37 | 1 | 57 | 5 | 3 | - | 1 | .09 | . 56 | .02 | .86 | . 08 | .12 | | .02 |
| Delta | 18 | 1 | 7 | - | - | - | 4 | | - | .06 | . 39 | - | <u> </u> | - | .22 | - | - |
| Egmont | | | | | | | | | | | | • | | | | | |
| Gibson's Landing | 81 | 17 | 96 | - ' | 43 | 1 | 70 | 11 | - | . 2Ì | 1.19 | - | .53 | .01 | .8õ | .14 | |
| Ladysmith | 35 | 7 | 33 | - | 18 | | 2 | - | 1 | .20 | .94 " | - | .51 | - | .06 | - | .03 |
| Lund | ³ 34 | 55 | -1 | - | 7 | - | 17 | - | - | 1.63 | .12 | - | .21 | - | .50 | - | - |
| Nanaimo | 213 | 152 | 83 | 7 | 49 | - | 55 | 2 | 2 | .71 | . 39 | .03 | .23 | - | .26 | .01 | .01 |
| Pender Harbour | 91 | 82 | 31 | - | 20 | - | 40 | - | - | .91 | .34 | | . 22 | - | .44 | - · | + |
| Powell River | 222 | 482 | 63 | 5 | 32 | 2 | 79 | - | · 1 | 2.17 | .31 | .02 | .14 | .01 | .35 | • | - |
| Qualicum North | 158 | 259 | 21 | - | 4 | . 2 | 16 | 1 | - ' | 1.64 | .13 | - | .03 | .01 | .10 | . 01 | - |
| Qualicum South | 343 | 443 | 137 | ~ | 22 | 1 | 20 | - | ž | 1.30 | . 40 | ·•• | .06 | - | .06 | ~ | .01 |
| Richmond | 64 | 9 | 32 | - | 7 | 1 | 6 | · 2 | - | .14 | .50 | - | .11 | 02 | .09 | .03 | |
| Saanich Inlet | 262 | 6 | 142 | 1 | 53 | - | - 33 | 5 | - | .02 | .54 | ÷ | .20 | - | .13 | .02 | - |
| Sooke | 818 | 23 | 318 | 1 | 176 | - | 120 | 43 | 2 | .03 | . 39 | - | .22 | - | .15 | .05 | - |
| Vancouver | 73 | 9 | 53 | 1 | 4. | - | 29 | - | | .12 | .73 | .01 | .05 | - | . 40 | - | - |
| West Vancouver | 392 | 47 | 177 | 2 | 124 | 2 | 139 | 16 | - | .12 | .45 | .01 | . 32 | .01 | . 35 | .04 | - |
| Victoria | 130 | 1 | `44 | - | 115 | - | 75 | 5 | | .01 | . 34 | - | .00 | - | .58 | .04 | |
| Sidney | 67 | 1 | 29 | - | 44 | - | 14 | 3 | 1 | .01 | .43 | | .66 | - | .21 | . 04 | .01 |
| Total | 4,720 | 4,993 | 1,770 | 157- | 997 | 24 | 1,091 | 197 | 16 | 1.06 | . 38 | .03 | .21 | .01 | .23 | .04 | - |

Legend: CO - Coho

- CH Chinook

RF - Rockfish DF - Dogfish

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

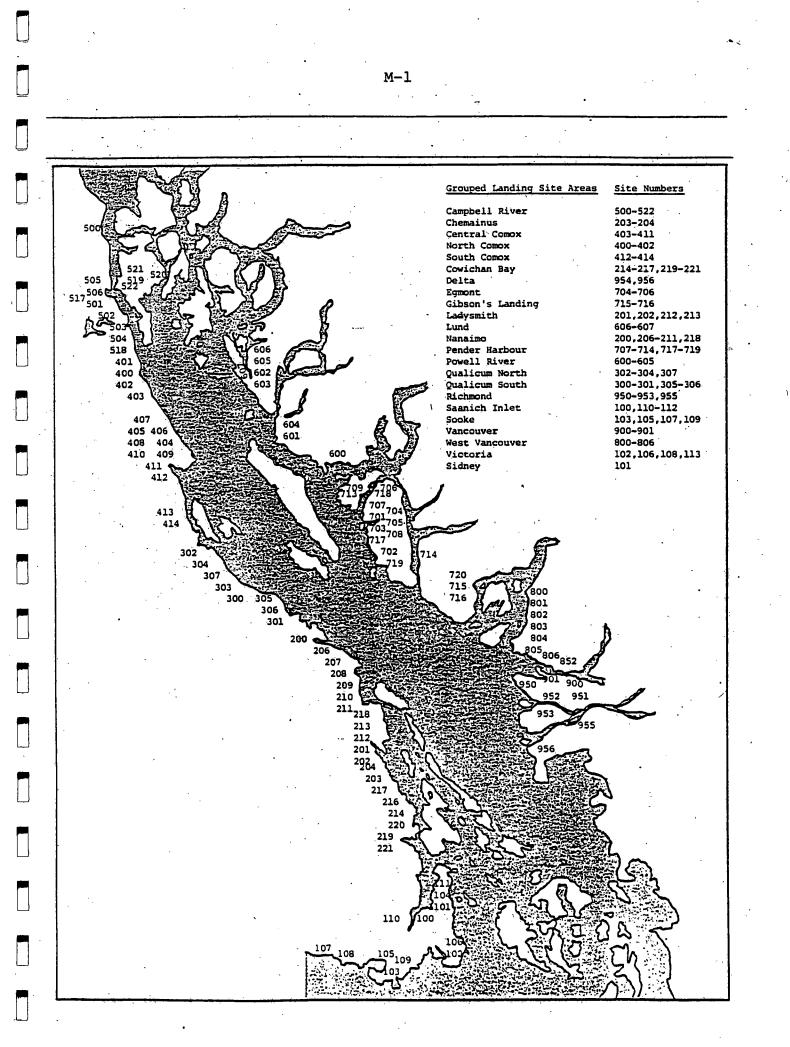
SM - Other Salmon or unidentified salmon

SF - Shellfish (0-1 variable)

APPENDIX M

RELEASED FISH SUMMARIES FROM GEORGIA STRAIT CREEL SURVEY RAW DATA

,



No. of **Released Fish** Average Number Released Fish per Boat Trip Interviews UF CH RF DF UF SF Area of Landing (Boat Trips) co CH SM RF DF LC SF co SM LC Campbell River 2,229 322 61 229 721 1,299 62 1 34 .14 .03 .10 . 32 . 58 .04 .03 _ Chemainus 166 3 37 -39 56 5 3 _ .02 .22 ---.23 . 34 .03 .02 Central Comox 824 11 24 106 102 224 38 113 .01 .03 .13 .12 .27 .05 -.14 North Comox 630 37 119 81 11 109 137 8 _ .06 . 19 .13 .02 .17 .01 .22 South Comox 10 18 65 13 13 1 .28 4 _ -.06 -.20 .15 .20 .02 Cowichan Bay 224 2 31 1 47 273 5 .01 .01 , 4 _ .14 .21 1.22 .02 .02 Delta 159 34 39 61 26 32 12 11 .21 .25 . 38 .20 .07 .16 .08 Egmont 159 29 71 3 4 11 _ -.03 .07 . 13 . 45 .05 -----Gibson's Landing 7 139 52 3 10 7 20 .37 -.05 .02 .07 .05 .14 _ Ladysmith 124 38 .05 . 31 .21 6 -33 26 17 15 . 27 ---.14 .12 ---Lund 139 46 -9 23 59 17 3 .33 -.06 .17 .42 .12 .02 -Nanaimo 962 139 213 30 51 31 49 89 .23 _ .14 .03 .05 .03 .05 .09 _ Pender Harbour 846 169 33 90 222 227 82 90 .20 .04 .11 .26 .27 .10 .11 -_ Powell River 790 105 52 176 96 63 35 30 .13 .07 -. 22 . 12 .11 .04 .04 Qualicum North 430 234 16 1 56 90 10 14 _ .54 .04 _ .13 .21 .02 .03 _ Qualicum South 923 148 30 3 41 55 18 6 .16 .03 .04 .05 .02 .01 --4 Richmond 136 -10 1 43 3 16 -.03 .07 .01 . 32 .02 .12 _ 13 78 72 49 Saanich Inlet 647 62 31 55 1 .02 .05 .09 .10 .12 .11 :08 77 1,047 53 78 38 470 55 37 .05 .07 .07 .45 Sooke _ .04 .05 .04 .04 235 11 37 46 12 3 10 4 1 .05 .16 . 20 .01 .02 .05 Vancouver West Vancouver 1,047 53 37 340 60 158 55 205 .05 .04 . 32 .05 .08 .15 .20 382 14 124 33 Victoria 1 -145 124 1 -.04 ---. 32 . 38 .32 . 09 212 3 9 3 62 154 8 7 .01 .04 .01 .29 .73 Sidney .04 .03 Total 12,517 1,394 950 1,331 1,935 3,710 694 930 4 .11 .08 -11 .15 .30 .06 .09 CO - Coho RF - Rockfish LC - Ling Cod Legend: UF - Other fish or Unidentified Fish (non salmon) CH - Chinook DF - Dogfish

SM - Other Salmon or unidentified salmon

TABLE N-1: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1980

SF - Shellfish (0-1 variable)

3

N

x

TABLE M-2: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, AUGUST 1980

| | No. of Interviews | · | | Rel | eased F | ish | | | | | Average | Number | Releas | ed Fish | per Bo | at Trip | |
|-----------------|----------------------|-------|-------|-------|----------|-----------|-----|------|-----|------|---------------|--------|--------|---------|--------|---------|------------|
| area of Landing | (Boat Trips) | СО | СН | SM | RF | DF | LC | UF · | SF | œ | СН | SM | RF | DF | LC | UF | S |
| Campbell River | 1,834 | 611 | 137 | 1,019 | 640 | 457 | 36 | 141 | - | . 33 | .08 | .56 | . 35 | .25 | .05 | .08 | - |
| Chemainus | 107 | 21 | 53 | - | 3 | 7 | 2 | 7 | - | .20 | . 50 | - | .07 | .07 | .02 | .07 | - |
| Central Comox | 630 | 2 | 21 | 601 | 70 | 114 | 47 | 2 | 1 | - | .03 | .95 | .11 | .18 | .07 | - | - |
| lorth Comox | 639 | - | 4 | 1,171 | 76 | 135 | 22 | 2 | - | - | .01 | 1.83 | .12 | .21 | .03 | - | - |
| South Comox | 63 | - | - | 69 | 10 | 3 | 1 | 2 | | - | - | 1.10 | . 16 | .05 | .02 | .03 | - |
| Cowichan Bay | 260 - | 4 | 93 | 12 | 79 | 146 | 11 | 4 | - | .02 | , 36 | .05 | . 30 | . 56 | .04 | .02 | - |
| Delta | 285 | - | 15 | 752 | 8 | 34 | 17 | 56 | - | - | .05 | 2.64 | .03 | .12 | .06 | .20 | - |
| Igmont | 116 | 7 | - | 25 | 50 | 54 | 3 | | - | .06 | - | .22 | .43 | . 47 | .03 | - | - |
| ibson's Landing | 65 | 2 | - | - | <u> </u> | 12 | 1 | 46 | - | .03 | | - | - | .18 | .02 | .71 | - |
| adysmith | 118 | 66 | 118 | - | 74 | 10 | 7 | 6 | - | .56 | 1.00 | - | .63 | .15 | .06 | .05 | - |
| unđ | 38 | 8 | - | 27 | 1 | 7 | 2 | . – | , - | .21 | - | .71 | .03 | .18 | .05 | - | - |
| anaimo | 585 | 238 | 80 | 126 | 104 | 36 | 79 | 116 | 1 | . 41 | .14 | .22 | . 18 | .06 | . 14 | ,20 | - |
| ender Harbour | 771 | 443 | , 6 | 232 | 265 | 456 | 39 | 36 | - | .57 | .01 | • .30 | . 37 | .59 | .05 | .05 | - |
| owell River | 475 | 15 | 6 | 540 | 149 | 60 | 20 | 12 | - | .03 | .01 | 1.14 | . 31 | .17 | .04 | .03 | - |
| Malicum North | 503 | · 247 | 49 | 565 | 93 | 187 | 16 | 23 | - | .49 | .10 | 1.12 | .18 | .37 | .03 | .05 | |
| Qualicum South | 584 | 64 | 22 | 376 | 33 | 71 | 15 | 14 | - | .14 | .04 | .64 | .06 | .12 | .03 | .02 | - |
| Richmond | . 136 | 4 | ß | 37 | - | 10 | - | 5 | - | .03 | .06 | .27 | - | .07 | - | .04 | - |
| Gaanich Inlet | 587 | 5 | 58 | 165 | 97 | 23 | 20 | 45 | 2 | .01 | . 10 . | . 32 | .17 | .04 | .03 | .08 | - |
| Sooke | 681 | 49 | 42 | 538 | 113 | 171 | 33 | 12 | 3 | .07 | .06 | . 79 | .17 | .25 | .05 | .02 | - |
| ancouver | 241 | 24 | 16 | 664 | 14 | 24 | 4 | 16 | 1 | .10 | .07 | 2.76 | .06 | .10 | .02 | .07 | - |
| lest Vancouver | 1,031 | 4 | 5 | 1,176 | 27 | 149 | 21 | 50 | 1 | - | - | 1.14 | .03 | .14 | .02 | .05 | - |
| lctoria | 309 | 2 | 52 | 12 | 147 | 60 | 65 | 15 | 1 | .01 | .17 | .04 | . 48 | .19 | .21 | .05 | , - |
| idney | 141 | - | 2 | 60 | 99 | 116 | 13 | 1 | 2 | - | .01 | .43 | .70 | .82 | .09 | .01 | - |
| Total | 10,199 | 1,836 | 707 4 | 8,187 | 2,177 | 2,770 | 524 | 613 | 12 | .16 | .08 | .80 | .21 | .23 | .05 | .06 | - |

 $\langle \cdots \rangle$

٠

Legend: CO - Coho

LC - Ling Cod

CH - Chinook

DF - Dogfish

UF - Other fish or Unidentified Fish (non salmon) SF - Shellfish (0-1 variable)

Ś

SM - Other Salmon or unidentified salmon

.

M-3

SEPTEMBER 1980 TABLE N-3: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA,

~-.,

| | No. of Interviews | | | | Release | d Eish | | | | Λν | erage | lumber 1 | Release | d Fish p | er Boat | Trip | |
|------------------|----------------------|-----|-----|-------|---------|--------|-----|------------|------------|--------------|-------|----------|---------|----------|-----------|------|-----|
| Area of Landing | (Boat Trips) | СО | СН | SM | RF | DF | rc | UP | SF | 00 | СН | SM | RF | DF | FC | UF | SI |
| Campbell River | 559 | 213 | 11 | 250 | 246 | 141 | 82 | 19 | - | .38 | .02 | .45 | . 44 | .25 | .15 | .03 | - |
| Chemainus | 36 | 3 | - | 143 | 12 | 3 | | 1 | - | .08 | - | 3.97 | . 33 | .08 | - | .03 | - |
| Central Comox | 186 | 54 | 2 | 75 | 9 | 21 | - | 1 | - | .29 | .01 | . 40 | .05 | .11 | - | .01 | - |
| North Comox | 146 | 40 | 6 | 44 | 3 | 9 | - | 2 | | . 27 | .04 | . 30 | .02 | .06 | - | .01 | - |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 124 | 1 | 10 | 99 | 39 | 35 | 17 | 7 | · - | .01 | .08 | . 80 | .31 | .28 | .14 | .06 | - |
| Delta | 50 | - | 2 | 284 | - | 5 | - | 13 | - | - | .04 | 5.60 | - | .10 | - | .26 | - |
| Egmont , | | | | | | | | | | | | | | | | | |
| Gibson's Landing | 50 | - | - | 40 | 4 | 3 | - | 4 | · - | - | - | .80 | .08 | .06 | - | .08 | - |
| Ladysmith | 65 | ~ | 7 | 176 | 14 | 5 | 2 | 21 | - | . | .11 | 2.70 | .22 | .08 | .03 | . 32 | - |
| Lund | . 7 | - | - | 8 | 6 | 9 | - | - | - | | - | 1.14 | 86 | 1.29 | • - | - | - |
| Nanaimo | 139 | 5 | 4 | 210 | 20 | 11 | 4 | 6 | - | .04 | .03 | 1.51 | .14 | .08 | .03 | 04 | - |
| Pender Harbour | 115 | - | - | 132 | 46 | 82 | - | 3 | - | - | - | 1.15 | .40 | .71 | - | .03 | - |
| Powell River | 78 | - | - | 101 | 15 | 47 | - | - | - | - | - | 1.29 | . 19 | .60 | - | · _ | - |
| Qualicum North | 124 | 143 | 32 | 110 | 13 | 10 | 4 | - | - | 1.15 | .26 | . 89 | .10 | .08 | .03 | - | - |
| Qualicum South | 221 | 7 | 7 | 343 | 23 | 33 | - | - · | - | .03 | .03 | 1.57 | .19 | .15 | - | - | - |
| Richmond | 98 | 1 | 25 | 554 | - | 5 | - | 21 | | .01 | . 25 | 5.65 | - | .05 | | .21 | - |
| Saanich Inlet | 356 | 9 | 90 | 224 | 109 | 7 | 4 | 24 | 2 | .03 | .26 | .63 | . 31 | .02 | .oı | .07 | .01 |
| / Sooke | 289 | 3 | 4 | 1,247 | 47 | 1 | 3 | 9 | 2 | .03 | .01 | 4.31 | . 16 | - | .01 | .03 | .01 |
| Vancouver | 154 | 43 | 6 | 313 | 10 | 27 | - | 8 | 1 | .28 | .05 | 2.03 | .06 | .18 | - | .05 | .01 |
| West Vancouver | 322 | 39 | 3 | 269 | 11 | 29 | - | 85 | 1 | .12 | .01 | .84 | .03 | .09 | - | . 26 | - |
| Victoria | 164 | - | - | 11 | 70 | 28 | 39 | 6 | - | - | - | .07 | .43 | .17 | .24 | .04 | - |
| Sidney | 54 | · _ | 29 | 32 | 15 | 34 | 4 | 2 | 3 | - | . 54 | . 59 | .28 | .63 | .07 | .04 | .06 |
| Total | 3,337 | 566 | 240 | 4,670 | 712 | 545 | 159 | 232 | 9 | .17 | .07 | 1.40 | .21 | . 16 | .05 | .07 | .01 |

Legend: CO - Coho

CH - Chinook

.

RF - Rockfish DF - Dogfish

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

.

. .

SM - Other Salmon or unidentified salmon

.

SF - Shellfish (0-1 variable)

ج 4

.

• .

TABLE M-4: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, OCTOBER 1980

.

| | No. of | | | Re | leased F | láh | | | | | Averag | e Numbe | r Belea | sed Fish | per Bo | at Trin | , . |
|------------------|----------------------------|-------------|-----|-------|----------|--------|----------|-----|-----|---------|--------|---------|---------|------------|--------|---------|------------|
| Area of Landing | Interviews (Boat Trips) | со | СН | SM | RF | DF | rc | UF | SF | <u></u> | СН | SM | RF | DF | LC | UF | S |
| Campbell River | 179 | ' 76 | 1 | ìo | 70 | 139 | ' 13 | 2 | - | .43 | .01 | .96 | . 39 | .78 | .07 | .01 | - |
| Chemainus | | | | | | | - | • | | | | | | | | - | |
| Central Comox | 46 | _ | - | 8 | - | 4 | • _ | - | - | - | _ | .17 | - | .09 | _ | - | - |
| North Comox | 5 | - | - | 4 | - | - | <u> </u> | - | | - | - | .80 | · _ | - | - | - | - |
| South, Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 6 | - | - | 3 | - | - | - | - | - | | - | . 50 | - | - | - | - | - |
| Delta | | | • | | | | | | | | | | • | | | | |
| Egmont | | | | | | | | | • | | | | | 1.1 | | | |
| Gibson's Landing | 23 | _ | | 50 | _ | _ | _ | _ | _ | _ | _ | 2.17 | _ | _ · | _ | | - |
| adysmith | 25 | - | _ | 50 | - | _ | | - | , - | _ | | 2.17 | | | _ | | |
| Lund | | | | | | | | | | | | | | | | | |
| Nanaimo | 301 | 7 | 10 | 476 | 23 | _ | 13 | · 2 | 1 | .02 | .03 | 1.58 | .08 | _ | .04 | .01 | _ |
| Pender Harbour | 67 | - | - | 22 | 21 | 84 | 2 | 10 | - | - | - | .33 | .31 | 1.25 | .03 | .15 | _ |
| owell River | 113 | | _ | 214 | 20 | 26 | - | - | _ | _ | - | 1.90 | .18 | .23 | - | - | _ |
| Qualicum North | | | | | | 20 | | | | | | 1100 | • 10 | | | | |
| Qualicum South | 94 | 24 | 4 | 134 | - | 9 | _ | _ | - | . 26 | .04 | 1.43 | ~ | .10 | - | - | _ |
| Richmond | 21 | _ | 1 | 104 | _ | - | - | 3 | _· | - | .05 | 4.95 | - | _ | - | .14 | _ |
| Saanich Inlet | 319 | 20 | 224 | 202 | 79 | 24 | 3 | 21 | 1. | .07 | .05 | .63 | .25 | .08 | .01 | .07 | _ |
| ooke | 588 | 6 | 423 | 517 | 274 | - | 74 | 26 | 9 | .01 | .72 | .88 | .47 | - | .13 | .04 | .0 |
| ancouver | 28 | - | - | 116 | - | 5 | - | 3 | · _ | - | - | 4.14 | | .18 | - | .11 | - |
| lest Vancouver | 166 | 7 | 26 | 37 | 1 | 60 | 6 | 87 | _ | .04 | .16 | .22 | .01 | .36 | .04 | .52 | _ |
| lictoria | 132 | | 18 | 21 | 41 | 2 | 60 | 4 | - | - | .10 | .16 | .31 | .02` | . 45 | .03 | _ |
| idney | 41 | | 43 | 5 | 13 | 2 5 | 3 | 2 | - | - | 1.05 | .10 | . 32 | .12 | .07 | .05 | |
| - | | | | | • | | | | _ | | | | | | | | - |
| fotal | 2,129 | 140 | 750 | 1,923 | 542 | 358 | 174 | 160 | 11 | .07 | . 35 | .90 | .25 | .17 | .08 | .08 | .0 |

Legend: CO - Coho

CH - Chinook

RF - Rockfish DF - Dogfish

LC - Ling Cod

SM - Other Salmon or unidentified salmon

UF - Other fish or Unidentified Fish (non salmon) SF - Shellfish (0-1 variable)

11-5

18

No. of Released Fish Average Number Released Fish per Boat Trip Interviews (Boat Trips) CO СН SM RF DF LC UP SF œ СН Area of Landing SM RF DF LC UF SF 16 Campbell River Chemainus 38 Central Comox North Comox South Comox 32 Cowichan Bay 2 .06 .13 .06 Delta Egmont Gibson's Landing Ladysmith Lund 41 43 6 2 4 1 .15 .10 1.05 Nanaimo .05 -.02 43 15 34 16 2 .35 9 .80 Pender Harbour .37 .05 .21 _ 12 15 3 1.25 .25 **Powell River** -------Qualicum North Qualicum South 6 1 9 1 1 .17 1.50 -.17 .17 Richmond Saanich Inlet 93 **9**' 1 223 6 7 .10 .01 2.40 .06 .08 + Sooke 99 _ 290 17 3 2.93 4 -_ . 17 -.04 .03 -Vancouver 44 _ _ 32 2 6 .73 --. --.14 .05 West Vancouver 57 2 -69 2 .04 . ---1.21 -.04 ---_ Victoria 28 2 22 17 4 19 _ l _ .07 .14 .79 .61 -.68 .04 -Sidney 24 18 2 3 1 -.75 .08 .08 .04 --Total 533 **2**Ó 9 641 83 127 30 16 5 .04 .02 1.20 .16 .24 .06 .03 .01

TABLE M-5: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, NOVEMBER 1920

Legend: CO - Coho

RF - Rockfish

CH - Chinook

DF - Dogfish

SM - Other Salmon or unidentified salmon

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SF - Shellfish (0-1 variable)

M-6

.

М

TABLE M-6: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER 1930

| | No. of Interviews | | | Rela | eased Fi | lsh | | | | | Averag | e Number | <u>Relea</u> | sed Fish | per Bo | at Trip | |
|------------------|----------------------|------------|------------|------|----------|-----|------------|-----------|------------|------------|--------|----------|--------------|------------|------------|------------|-----|
| Area of Landing | (Boat Trips) | СО | СН | SM | RF | DF | rc | UF | SF | ĊO | СН | SM | RF | DF | LC | UF | SF |
| Campbell River | 16 | _ | | · _ | - | _ | | _ | _ | - | - | - | _' | - | _ . | · · · | _ |
| Chemainus | - ; | | | | | • | | | | | | | | | | | |
| Central Comox | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| North Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | ۰. | 2 | | | | | | | | | |
| Cowichan Bay | 8 | - | 1 | - | - | - | - | - | - ' | - | .13 | - | - | - | - | - | - |
| Delta | | | | | | | | | | | | | | | | | |
| Egmont | | | | | • | | | | | | | | | | | | |
| Gibson's Landing | · . · | | | | | | | | | | | | | | | | |
| Ladysmith | • | | | | | | | | | | | | | | | | |
| Lund | | | | | | | | | | | | | | | | • | |
| Nanaimo | 51 | - | 8 | 5 | 5 | - | 1 | j | · 1 | - | .16 | .10 | . 42 | - | .02 | .06 | .02 |
| Pender Harbour | 31 | - | - | 4 | 13 | 2 | 4 | · 3 | - | | - | .13 | .42 | .06 | .13 | .10 | - |
| Powell River | 7. | - | - | - | - | - | - | - | - | - . | - | - | - | <u>؛</u> _ | - | - | - |
| Qualicum North | • | | | | | | | | | | | | | • | | | |
| Qualicum South | | | | ` | | | | | | | | | | | | | |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 70 | 6 | 18 | 228 | 7 | 4 | • 2 | - | - | .09 | .26 | 3.26 | .10 | .06 | .03 | · <u>-</u> | · |
| fooke | 116 | - ' | 2 | 170 | 31 | - | 17 | 2 | 1 | - | .02 | 1.47 | .27 | - | .15 | .02 | .01 |
| Vancouver | 13 | - | - | - | 1 | 4 | - | · | - | - | - | - | .08 | . 31 | - | - | - |
| West Vancouver | 46 | - · | - | 2 | - | 74 | - . | 2 | - | - | - | .04 | - | 1.61 | - | .04 | - |
| Victoria | 33 | · - | 1 | 26 | 10 | - | 19 | - | - | - | .03 | . 79 | . 30 | - | .58 | - | - |
| Sidney | 5 | - | <u>_</u> : | 3 | 1 | 10 | 2 | - | - | - ' | - | .60 | .20 | 2.0 | . 40 | - | - |
| Total | 407 | 6 | 30 | 438 | 68 | 94 | 45 | 10 | 2 | .01 | .07 | 1.08 | .17 | .23 | .11 | .02 | - |

Legend: CO - Coho

CH ~ Chinook

LC - Ling Cod

SM - Other Salmon or unidentified salmon

UF - Other fish or Unidentified Fish (non salmon) SF - Shellfish (0-1 variable)

| | No. of Interviews | | | 3 | eleased | l Fish | | | _ | | Avera | ge Nurbe | r <u>Relea</u> | sed Fis | h per H | loat Tr | in |
|------------------|----------------------|----|-----|-----|------------|-----------------|------|----|------------|---------------|-------|----------|----------------|------------|------------|------------|-----|
| Area of Landing | (Boat Trips) | co | CĤ | SM | RF | DF | rc | UF | SF | co | СН | SM | RF | DF | LC | UF | S |
| Campbell River | 33 | - | - | - | - | - | · _ | - | - | - | - | - | - | - | - | - | - |
| Chemainus | | | | | | | | | | | | | | | | | |
| Central Comox | 38 | - | - | - | - | - | - | | ÷ | · - | - | - | - | - | - | - | - |
| North Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | - | | |
| Cowichan Bay | . 61 | 1 | 12 | 11 | 12 | 11 | 3. | 1 | - | .02 | ·.20 | .18 | .20 | .18 | .05 | .02 | - |
| Delta | | | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | | | | | |
| Ladysmith | 33 | 1 | 12 | 34 | - | 1 | - | - | - | .03 | . 36 | 1.03 | - | .03 | - . | - | - |
| Lund | | | | | | | | | | | | | | | | | |
| Nanaimo | 95 . | 2 | 7 | 24 | 1 | Ģ | - | | - | .02 | .07 | .25 | .01 | .06 | - | - | - |
| Pender Harbour | 38 | - | - | 2 | 8 | 6 | 5 | 6 | <u>-</u> · | - | - | .05 | .21 | . 16 | .13 | . 16 | - |
| Powell River | 9 | - | - | - | - | - | - | - | - | - | - | - | ~ | - | - | - | - |
| Qualicum North | | | | | | | | | | | | ~ | | | | | |
| Qualicum South | 8 | - | - | 5 | - | - ' | - | - | - | - | - | .63 | - | - . | - | - ' | - |
| Richmond | | | | | . • | | | | | | | | | | | | |
| Saanich Inlet | 230 | 25 | 32 | 361 | 30 | 9 | 11 | 1 | - | . 11 ' | .14 | 1.57 | .13 | .04 | .05 | - | - |
| Sooke | 239 | 4 | 32 | 238 | 61 | 1 | 77 ' | - | 2 | .02 | .13 | 1.00 | .26 | - | . 32 | - | .01 |
| Vancouver | 85 | - | - | | - | [.] 62 | - | 13 | 3 | - | - | - | - ' | .73 | - | .15 | .04 |
| West Vancouver | 98 | | - | - | _ ` | 19 | 1 | 3 | - . | - | - | - | - | .19 | .01 | .03 | · _ |
| Victoria | 98 | 4 | 7 | 109 | 28 | , - | 30 | 2 | - | .04 | .07 | 1.11 | .29 | - | . 31 | .02 | - |
| Sidney | 58 | - | 17 | 17 | 6 | 4 | 13 | 1 | 1 | - | .29 | .29 | .10 | .07 | .22 | .02 | .02 |
| Total | 1,123 | 37 | 119 | 801 | 146 | 119 | 140 | 27 | 6 | . 03 | .11 | .71 | .13 | .11 | . 1.2 | .02 | .01 |

TABLE M-7: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY 1981

Legend: CO - Coho

CH - Chinook

RF – Rockfish DF – Dogfish LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SM - Other Salmon or unidentified salmon

SF - Shellfish (0-1 variable)

8-M

M-9

. .

TABLE M-8: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEBRUARY 1981

| | No. of | | | · . | Release | d Fish | | | | · A | verage | Number F | eleased | l Fish | per Boa | t Trip | |
|------------------|----------------------------|----|----|-----|---------|--------|-------------|----|--------------|------|--------|----------|---------|--------|---------|----------|-----|
| Area of Landing | Interviews (Boat Trips) | CO | СН | SM | RF | DF | LC | UF | SF | 0 | СН | SM | RF | DF | . LC | UF | SF |
| Campbell River | 27 | _ | - | - | - | - | `' | - | . | - | - | - | - | - | - | - | - |
| Chemainus . | | | | | | | | • | | | | | | | | | |
| Central Comox | 21 | - | - | - | 2 | 5 | - | - | - | - | - | · _ | . 10 | .24 | - | - | - |
| North Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | - | | |
| Cowichan Bay | 26 | - | 1 | 2 | 3 | 1 | 10 | 1 | - | - | .04 | .08 | .12 | .04 | . 38 | .04 | - |
| Delta | | - | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | · | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | | | | • | |
| Ladysmith | 26 | - | - | 4 | 1 | · 2 | 3 | - | - | - | - | . 15 | .04 | .08 | .12 | - | - |
| Lund | | | | | • | | | | | | | • | | | | | |
| Nanaimo | 87 | - | - | 3 | 2 | 61 | 3 | 2 | - | - | - | .03 | .02 | .70 | .03 | . 02 | - |
| Pender Harbour | 42 | - | - | ` 2 | 20 | 19 | 2 | 3 | - | - | - | .05 | . 48 | .45 | .05 | .07 | - |
| Powell River | 4 | - | - | - | - | | - | - | - | · _ | - | - | | - | - | · _ | - |
| Qualicum North | | | | | | | | | | | | | | | | | |
| Qualicum South | 10 | - | - | - | - | · 1 | <u> -</u> . | - | 1 | - | - | - | - | .10 | - | <u>-</u> | .10 |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 198 | 5 | 8 | 69 | 34 | 1 | 11 | 12 | - | .03 | .04 | . 35 | .17 | .01 | .06 | .06 | - |
| Sooke | 182 | 45 | 1 | 214 | 31 | 2 | 33 | 15 | 1 | . 25 | .01 | 1.16 | .17 | .01 | .18 | .08 | .01 |
| Vancouver | 68 | - | - | - | - | 22 | - | 3 | 3 | - | - | - | - | . 32 | - | .04 | .04 |
| West Vancouver | 83 | - | - | - | - | 42 | - | 10 | ÷ . | - | - | - | - | .51 | - | .12 | - |
| Victoria | 120 | 1 | 1 | 85 | 36 | 10 | 65 | - | 1. | .01 | .01 | .71 | . 30 | .08 | .54 | - | .01 |
| Sidney | 51 | 1 | 4 | 6 | 9 | 2 | 8 | | 3 | .02 | .08 | .12 | .18 | .04 | .16 | - | .06 |
| Total | 945 | 52 | 15 | 385 | 138 | 168 | 135 | 46 | 9 | .06 | .02 | .41 | .15 | . 18 | .14 | .05 | .01 |

Legend: CO - Coho

١

.

RF - Rockfish DF - Dogfish

LC - Ling Cod

CH - Chinook SM - Other Salmon or unidentified salmon UF - Other fish or Unidentified Fish (non salmon)

SF - Shellfish (0-1 variable)

TABLE M-9: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCH 1981

:

| co 10 | Сн - | <u>Rel</u> SM | RF | ish DF | LC | | | <u></u> | erage N | umber R | eleased | <u>Fish</u> p | er Boat | Trip | |
|----------|----------------|------------------|----------------|---------------------|--------------------------|--------------------------------|------------|---|---------------------------------------|---|---|---|---|--|---|
| | сн - | SM | RF | DF | 1.0 | | | | | | | | | | |
| 10 | - | | | | 20 | UF | SF | 8 | Сн | SM | RF | DF | LC | UF | SF |
| | | - | 2 | - | • 5 | - | - | . 45 | | - | .09 | - | .23 | - | - |
| | | | | | | | | | | | | | | | |
| | _ | _ | _ | - | _ | _ | - | - | - | - | - | - | _ | - | - |
| | | | | | | | | • | | | | | | | |
| | | | | | | | | | | | | | | | |
| - | 2 | - | 2 | | - | - | - | - | .11 | - | .11 | - | _ | - | _ |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | , | | | | | | | |
| - | 1 | - | - | ~ | 1 | 4 | - | - | .20 | - | - | - | .20 | .80 | ~ |
| | | | | | | | | | | | | | | | |
| 2 | , . | 5 | 3 | 20 | - | 3 | 1 | .02 | - | .06 | .04 | . 24 | - | .03 | .01 |
| - | - | 2 | 3. | 33 | 1 | 2 | - | | | .04 | .02 | . 72 | .02 | .04 | - |
| - | | - | - | - ' | - | - | - | - | - | _ . | - | - | - | - | - |
| | | | | | | | | | | | | | | | |
| - | - | - | - | - | - | - | ` _ | - | - | - | - | - | · - | - | - |
| | | | | | | | | | | | | | | | , |
| 3 | 6 | 69 | 3.1 | 5 | 1,3 | - | - | .02 | .03 | .30 | .10 | .03 | .07 | - | - , |
| 18 | 4 | 99 | 17 | | 56 | - | - | .11 | .02 | .60 | .10 | - | . 34 | - | - |
| - | 7 | 12 | ~ | 2 | 7 | 8 | - | - | .12 | .21 | - | .03 | .12 | .14 | - |
| - | 1 | - | - | 9 | - | 2 | - | - | .01 | - | - | .08 | - | .02 | - |
| 1 | - | 33 | 13 | 7 | 27 | 1 | | .02 | - | .54 | .25 | .11 | .44 | .02 | |
| - | - | 6 | 4 | - | 5 | 3 | - | - | - | .24 | .)6 | - | .20 | .12 | - |
| 34 | 21 | 226 | 62 | 76 | 115 | 23 | 1. | .04 | .03 | .23 | .08 | .09 | .14 | .03 | - |
| | - | | 6 34 21 226 | 6 4 34 21 226 62 | 6 4 - 34 21 226 62 76 | 6 4 - 5 34 21 226 62 76 115 | 6 4 - 5 3 | 6 4 - 5 3 - 34 21 226 62 76 115 23 1 | 6 4 - 5 3 34 21 226 62 76 115 23 1 | 6 4 - 5 3 34 21 226 62 76 115 23 1 .04 .03 | 6 4 - 5 324 34 21 226 62 76 115 23 1 .04 .03 .23 | 6 4 - 5 324 .16 34 21 226 62 76 115 23 1 .04 .03 .23 .08 | 6 4 - 5 324 .16 - 34 21 226 62 76 115 23 1 .04 .03 .23 .08 .09 | 6 4 - 5 324 .1.620 34 21 226 62 76 115 23 1 .04 .03 .23 .08 .09 .14 | 6 4 - 5 324 .1620 .12 34 21 226 62 76 115 23 1 .04 .03 .23 .08 .09 .14 .03 |

Legend: CO - Coho

CH - Chinook

SM - Other Salmon or unidentified salmon

RF - Rockfish DF - Dogfish

ſ

1

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon) SF - Shellfish (0-1 variable)

M-10

TABLE M-10: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL 1981

| • | No. of | | | | Release | d Fich | | | | | Averace | e Uurbei | r Releas | ed Fisl | <u>) per Eo</u> | at Tris | ۰ |
|-----------------|----------------------------|-----|------------|-----|-------------|--------|------|-----|----------|------------|------------|----------|------------|------------|-----------------|---------|----------|
| Area of Landing | Interviews (Boat Trips) | co | ĊH | SM | RF | DF | LC | UF | SF | œ | СН | ŚM | RF | | LC | UF | SF |
| Campbell River | 46 | - | - | | 19 | • - | 10 | ·_ | · | _ | | - | . 41 | <u>.</u> | . 25 | - | <u>_</u> |
| Chemainus | | | | | | | | 7 | | | | | | | | • | |
| Central.Comox | 52 | - | - | - | _ | 4 | 4 | · _ | - | - | - | - | - | .08 | .08 | _ | |
| iorth Comox | • | | • | | | | | , | | | | | | | | | |
| South Comox | · | | | | | | • | | • | | | | | | | | |
| Cowichan Bay | 12 | - | - | - | 2 | - | - | - | 1 | - | - | - | .17 | - | - | | .08 |
| elta | | | | • • | | • | | | | | | • | • • • | | • | | |
| gmont | | | | | | | | | | | | | | | | | |
| ibson's Landing | | | | | | | | | | | | | | | | | |
| adysmith | 5 | 2 | - · | | - | - | - | - | - | .40 | - | - | - | - | - | | _ |
| und | | | ۵ | | | • | | | | | | | | | | 1 | |
| anaimo | 71 | 4 | 2 | 3 | 1 | 4 | 2 | - | 1 | .06 | .03 | .04 | .01 | .06 | .03 | - | . 01 |
| ender Harbour | 60 | 2 | - | - | 10 | 22 | 2 | · _ | _ | .02 | - | - | .17 | . 37 | .03 | - · | - |
| owell River | 0 | - | | - | - | - | 3 | - | - | - | - | - | _ | _ | . 38 | _ | - |
| ualicum North | - · | | | | | | | | | | | | | | , | | |
| ualicum South | 20 | - | | 7 | | ì | - | - | <u>.</u> | · _ | - | .35 | <u>_</u> · | .05 | - | | - |
| ichmond | | | | | | | | | | | | | | | | | |
| aanich Inlet | 95 | 4 | 12 | 17 | 33 | | 12 | 1 | - | .04 | .13 | . 18 | .35 | - | .13′ | .01 | - |
| ooke | 242 | 33 | 69 | 43 | 60 | - | 34 | 13 | 1 | .14 | . 29 | .18 | .25 | - | .14 | .05 | - |
| ancouver | 29 | - | - | 11 | | 2 | 2 · | - | | - | | . 35 | | .07 | .07 | ~ | - |
| est Vancouver . | 65 | | - | - | - | 6 | 1 | - | - | - . | ~ | - | <u> -</u> | . 09 | .02 | _ ` | _ |
| ictoria | 11 | 3 | _ · | 1 | 2 | _ | . 9 | - | _ | .27 | · _ | . 09 | . 18 | | .82 | | |
| idney | 17 | _ | - | 3 | 2 7 | - | 2 | _ | - | / | _ | | | - . | | | - |
| otal | • | | | | | - | 6 | - | - | - | - | .41 | .41 | - | .12 | - | - |
| DTAL | 733 | .47 | :83 | 35 | 234 | 39 | · 81 | J.4 | 3 | .06 | . 11 | .12 | .13 | .05 | .11 | . 92 | - |

Legend: CO ~ Coho CH - Chinook

.

RF - Rockfish DF - Dogfish LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SM - Other Salmon or unidentified salmon

.

SF - Shellfish (0-1 variable)

M-11

1

-

TABLE M-11: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY 1901

| Area of Landing | No. of Interviews (Boat Trips) | Released Fish | | | | | | | | | Average Number Released Fish per Soat Trip | | | | | | | |
|------------------|--------------------------------------|---------------|----------|------|-----|-----|-----|-----|-----|-----|--|----------------|------|------|------------|------|-----|--|
| | | СО | СН | SM | RF | DF | rc | UF | SF | co | СН | SM | RF | DF | LC | UF | . 5 | |
| Campbell River | 394 | 8 | 19 | - | 284 | 177 | 162 | 20 | - | .02 | - 05 | - | . 72 | . 45 | .41 | .05 | | |
| chemainus | | | | | | | | | | | | | • | | | | | |
| Central Comox | 293 | 14 | 15 | 1 | 7 | 88 | 6 | 3 | ~ | .05 | .05 | - | . 02 | . 30 | .02 | .01 | | |
| orth Comox | 196 | 6 | 1 | _ | | 4 | 1 | | - | .03 | .01 | - | - | .02 | .01 | -2 | | |
| outh Comox | | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 31 | - | <u> </u> | - | 3 | - | _ | - | - | - | · _ | - | . 10 | - | | - | | |
| Delta | | | | | | | | | | | | | | | | | • | |
| Egmont | | | | | | | | | | | | | | | | | | |
| Gibson's Landing | 28 | ` | 11 | · _ | - | - | | - | - | - | . 39 | - | - | - | - , | - | | |
| Ladysmith | 2 | - | - | - | - | - | · _ | - | - | - | - | - | - | - | - | | | |
| Lund | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Nanaimo | 122 | 13 | 13 | 2 | 14 | 1 | 1· | 4 | · _ | .11 | .11 | .02 | .11 | .01 | .01 | .03 | | |
| Pender Harbour | 62 | - | 1 | - | 2 | | 2 | - | - | - | .02 | - | .03 | - | .03 | - | | |
| Powell River | 93 | 2 | ` 1 | - | 5 | - | 8 | - | - | .02 | .01 | - | .05 | · _ | .09 | - ' | | |
| Qualicum North | 63 | 3 | - | - | 16 | 46 | 2 | l | - | .13 | - | - | .25 | .73 | .03 | .02 | | |
| Qualicum South | 549 | 22 | 64 | - | 18 | 25 | 3 | 1 | - | .04 | .12 | - | .03 | .05 | .01 | - · | • | |
| Richmond | | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 320 | 4 | 23 | · 98 | 49 | - | 23 | 10 | - | .01 | .07 | .31 | .15 | - | .07 | .03 | | |
| Sooke | 505 | 17 | 26 | 21 | 45 | 13 | 43 | 8 | - | .03 | .05 | .04 | .09 | .03 | .09` | .02 | | |
| Vancouver | 107 | - | 19 | 69 |). | 62 | 4 | 1 | - | - | .18 | .64 | .01 | . 5a | .04 | .01 | | |
| West Vancouver | 325 | 4 | 49 | - | 43 | 275 | 13 | 16 | 2 | .01 | .15 | . . | .13 | .85 | .04 | .05 | | |
| Victoria | 149 | 5 | 25 | 10 | 21 | - | 42 | 62 | - | .03 | .17 | .07 | .14 | - | .23 | . 42 | | |
| Sidney | 136 | - | 6 | 7 | 33 | 3 | 15 | 17 | 2 | · - | .04 | .05 | . 24 | .06 | .11 | .13 | | |
| rotal | 3,387 | 103 | 273 | 208 | 541 | 699 | 325 | 143 | 3 | .03 | .08 | .06 | .16 | .21 | .10 | .04 | | |

Legend: CO - Coho

CH - Chinook

.1

RF – Rockfish DF – Dogfish

LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SM - Other Salmon or unidentified salmon

SF - Shellfish (0-1 variable)

M-12

.

~ ·

..

TABLE M-12: RELEASED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JUNE 1931

| Area of Landing | No. of Interviews (Boat Trips) | Released Fish | | | | | | | | Average Number Released Fish per Boat Trin | | | | | | | |
|------------------|--------------------------------------|---------------|-----|-------------|-----|-------|--------|------------|----------|--|------|-------|------|------|------|------|----|
| | | CO | СН | SM | RF | DF | IC | UF | SF | 8 | СН | SM | RF | DF | LC | UF | S |
| Campbell River | 572 | 85 | 33 | | 168 | 416 | 188 | 40 | 1 | .15 | .06 | - | . 30 | .73 | . 33 | .07 | - |
| Chemainus | 74 | ខ | 51 | 8 | 16 | 11 | 9 | 11 | - | .11 | .69 | .11 | .22 | . 15 | .12 | .15 | - |
| Central Comox | 406 | 30 | 35 | 2 | 29 | 330 | 7 | · <u>`</u> | - | .07 | .21 | ÷ | .07 | .81 | .02 | | - |
| North Comox | 601 | 114 | 14 | 10 | 6 | 41 | 16 | - | - | .19 | .02 | .02 | .01 | .07 | 03 | - | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 66 | - | 4 | - - | , 7 | 32 | 1 | | 1 | - | .06 | - | .11 | . 48 | .02 | - | .0 |
| Delta | 18 | - | - | - | - | 3 | ÷ | , 3 | <u> </u> | - | - | - | - | .17 | - | .17 | |
| Egmont | | | • | | | | | | | | | | • | | | | |
| Gibson's Landing | 81 | - | 7 | _ | | 2 | 1 | | _ | _ | .09 | - | _ | .02 | .01 | | _ |
| Ladysmith | 35 | 3 | 32 | 2 | 16 | 11 | ÷ 3 | _ | - | .09 | .05 | .06 | .46 | .02 | .01 | - | _ |
| Lund | 34 | - | - | - | 2 | - | - | _ | - | .03 | . 51 | - | .∾0 | | | | _ |
| Nanaimo | 213 | 37 | 189 | 4 | 35 | 10 | 6 | .2 | _ | .17 | .89 | .02 ~ | .16 | .05 | .03 | .01 | _ |
| Pender Harbour | 91 | 3 | 13 | _ | 19 | 13 | 14 | | _ | .03 | .14 | - | .21 | .14 | .15 | | _ |
| Powell River | 222 | 23 | 24 | - | 11 | 5 | 3 | - | _ | .10 | .11 | - | .05 | .02 | .04 | _ | _ |
| Qualicum North | 158 | 10 | 20 | 30 | 2 | 6 | | _ | - | .06 | -13 | .19 | .01 | .04 | - | | _ |
| Qualicum South | 343 | 1 | 39 | - | 16 | 13 | 3 | - | - | . ÷ | .29 | - | .05 | .04 | .01 | | - |
| Richmond | 64 | 1 | 1 | 15 | 4 | 29 | 7 | - | - | .02 | .02 | .23 | .06 | .44 | .1)` | - | - |
| Saanich Inlet | 262 | 1 | 32 | 104 | 31 | 9 | 4 | 1.2 | - | - | .12 | .40 | .12 | .03 | .02 | .05 | _ |
| Sooke | 818 | 2 | 8 | 17 | 46 | 15 | 48 | 94 | - | - | .01 | .02 | .06 | .02 | .06 | .11 | - |
| /ancouver | 73 | - | 19 | - | | 19 | 3 | 1 | - | _ | .26 | - | - | .26 | .04 | .01 | - |
| lest Vancouver | 392 | 3 | 37 | - | 13 | 168 | 45 | 25 | - | .01 | .09 | _ | .03 | .43 | .11 | .06 | |
| lictoria | 130 | 1 | _ | 12 | 54 | 13 | 28 | 51 | - | .01 | - | · .09 | .42 | .10 | .22 | . 39 | _ |
| Sidney | 67 | - | - | 2 | 20 | 69 | 5 | 2 | - | - | - | .03 | . 30 | 1.03 | .07 | .03 | - |
| Total | 4,720 | 322 | 668 | 206 | 497 | 1,214 | 396 | 241 | 2 | .07 | .14 | .04 | .11 | . 26 | .08 | .05 | |

.

Legend: CO - Coho

CH - Chinook

RF - Rockfish DF - Dogfish LC - Ling Cod

UF - Other fish or Unidentified Fish (non salmon)

SM - Other Salmon or unidentified salmon

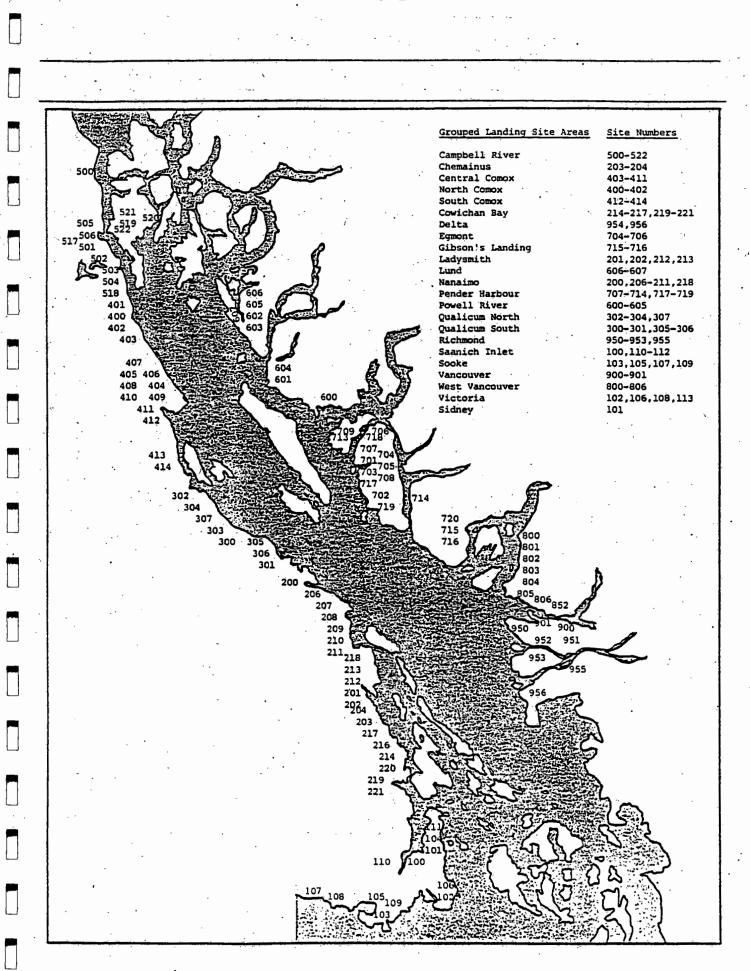
SF - Shellfish (0-1 variable)

M-13

.

APPENDIX N

MARKED / UNMARKED FISH SUMMARIES FROM GEORGIA STRAIT CREEL SURVEY RAW DATA



| | | Nun | | Proportion | | |
|------------------|------|-----|--------|------------|----------|-------|
| | Mar | ked | | marked | Marked | |
| Area of Landing | 00 | СН | CO | СН | СО | СН |
| | | | | | | |
| Campbell River | 252 | 11 | 3,196 | 514 | .073 | .021 |
| Chemainus | 0 | 6 | 46. | 153 | - | .038 |
| Central Comox | 33 | . 0 | 962 | 166 | .038 | - |
| North Comox | 76 | 2 | 1,127 | 134 | .063 | .015 |
| South Comox | 9 | 2 | 106 | 15 | .078 | .117 |
| Cowichan Bay | 0 | 0 | 9 | 107 | - | - |
| Delta | 8 | 4 | 94 | 92 | .078 | .0.42 |
| Egmont | · 4 | 0 | 33 | 32 | .108 | - |
| Gibson's Landing | 10 | 1 | 65 | 31 | .133 | .031 |
| Ladysmith | 2 | о | 47 | 89 | .041 | - |
| Lund | 3 | 0 | 81 | 14 | .036 | - |
| Nanaimo | 23 | 4 | 921 | 841 | .024 | .005 |
| Pender Harbour | 58 | 9 | 1,221 | 254 | .045 | .034 |
| Powell River | 26 | 4 | 754 | 157 | .033 | .025 |
| Qualicum North | - 28 | . 0 | 487 | 62 | .054 | |
| Qualicum South | 29 | 3 | 1,382 | 395 | .021 | .008 |
| Richmond | 7 | l | 60 | 27 | .104 | .036 |
| Saanich Inlet | 0 | 1 | 41 | 304 | - | .003 |
| Sooke | 12 | 4 | 771 | 234 | .015 | .017 |
| Vancouver | 14 | 3 | 102 | 127 | .121 | .023 |
| West Vancouver | 46 | 8 | 327 | 206 | .123 | .037 |
| Victoria | 0 | 0 | 13 | 166 | <u> </u> | - |
| Sidney | 0 | 1 | 15 | 91 | - | .011 |
| | | | | | · | |
| All Areas | 645 | 64 | 11,860 | 4,211 | .052 | .015 |

TABLE N-1: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1980

____,

· --. --

•

. ..

Legend: CO - Coho CH - Chinook

TABLE N-2: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, AUGUST 1980

| • | | Nor | ber | | | | | |
|------------------|-----|---------|-------|-------|----------------------|-----------|--|--|
| | Ma | rked | | arked | Proportion Marked | | | |
| Area of Landing | 00 | CH | co | СН | CO | CH | | |
| Campbell River | 223 | 25 | 2,046 | 401 | .098 | .059 | | |
| Chemainus | 2 | 0 | 31. | 49 | .061 | - | | |
| Central Comox | 11 | 4 | 365 | 224 | .029 | .018 | | |
| North Comox | 28 | 8 | 728 | 176 | .037 | .043 | | |
| South Comox | - 3 | 0 | 45 | 29 | .063 | - | | |
| Cowichan Bay | 0 | l | 9 | 113 | 、 - | .009 | | |
| Delta | 6 | l | 106 | 103 | .054 | .010 | | |
| Egmont | 0 | o | 3 | 12 | | - | | |
| Gibson's Landing | 1 | 0 | 53 | 13 | .019 | - | | |
| Ladysmith | 0 | 0. | 18 | 40 | - | - | | |
| Lund | 1 | 0 | 30 | 3 | .032 | · | | |
| Nanaimo | 2 | 5 | 216 | 235 | .009 | .021 | | |
| Pender Harbour | 29 | 6 | 722 | 154 | .039 | .038 | | |
| Powell River | 3 | . 1 | 288 | 124 | .010 | .008 | | |
| Qualicum North | 17 | 5 | 289 | 95 | .056 | .050 | | |
| Qualicum South | . 3 | 5 | 402 | 270 | .020 | .013 | | |
| Richmond | 5 | S | 59 | 34 | .078 | .190 | | |
| Saanich Inlet | 0 | 3 | 44 | 464 | - | .006 | | |
| Sooke | 6 | 3 | 300 | 248 | .020 | .012 | | |
| Vancouver | 14 | 2 | 193 | 74 | .068 | .026 | | |
| West Vancouver | 82 | 3 | 495 | 75 | .142 | .038 | | |
| Victoria | 1 | l | 6 | 174 | .143 | .006 | | |
| Sidney | 0 | . 2 | | 49 | - | .039 | | |
| All Areas | 442 | - 83 | 6,458 | 3,159 | .064 | .026 | | |

Legend: CO - Coho-CH - Chinook

N-3

| | | Num | | | | |
|------------------|----------|-------------|-------|--------|------|--------------|
| | Mar | ked_ | | narked | - | rtion ked |
| Area of Landing | co | СН | со | СН | СО | СН |
| Campbell River | 60 | 5 | 773 | 106 | .072 | .045 |
| Chemainus | - | 2 | 3 · | 29 | - | .065 |
| Central Comox | 4 | 1 | 72 | 51 | .053 | .019 |
| North Comox | 4 | - | 139 | 22 | .028 | - |
| South Comox | | | | | | |
| Cowichan Bay | - | 1 | 12 | 33 | - | .029 |
| Delta | - | - | 26 | 10 | - | - |
| Egmont . | | | | | | |
| Gibson's Landing | l | - | 26 | 8 | .037 | - |
| Ladysmith | - | 4 | 9 | 44 | . – | .083 |
| Lund | - | - | 1 | 1 | - | - |
| Nanaimo | 3 | l | 55 | 39 | .052 | .025 |
| Pender Harbour | 2 | l | 82 | 43 | .024 | .023 |
| Powell River | - | | . 44 | 22 | · _ | - |
| Qualicum North | 3 | | 72 | 37 | .040 | - |
| Qualicum South | 3 | 2 | 115 | 92 | .025 | .021 |
| Richmond | 1 | 2 | 43 | 35 | .223 | .054 |
| Saanich Inlet | - | · 7 | 75 | 346 | - | .020 |
| Sooke | - | 3 | 116 | 266 | - | .011 |
| Vancouver | <u>4</u> | l | 39 | 21 | .043 | .045 |
| West Vancouver | 28 | 4 | 170 | 35 | .141 | .103 |
| Victoria | - | - | 4 | 75 | - | - |
| Sidney | - | - | 2 | 15 | - | - |
| All Areas | 113 | 34 | 1,928 | 1,330 | .055 | .025 |

TABLE N-3: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, SEPTEMBER 1980

Legend: CO - Coho CH - Chinook

| | | | | · · · · · · · · · · · · · · · · · · · | | | |
|------------------|------------|------------|----------|---------------------------------------|------|--------|--|
| | <u> </u> | Num | ber | | Prop | ortion | |
| | Ma | rked | Unmarked | | | Marked | |
| Area of Landing | co | СН | CO | CH | CO | CH | |
| Campbell River | 17 | - | 181 | 35 | .086 | - | |
| Chemainus | | | | | | | |
| Central Comox | - | - | 11 | 3 | - | - | |
| North Comox | 2 | - | l | l | .667 | - | |
| South Comox | _ . | | | | | | |
| Cowichan Bay | - | - | , 1 | - 3 | - | · | |
| Delta | | | | | | | |
| Egmont | | | | | | | |
| Gibson's Landing | - | - | 6 | 1 | - | - | |
| Ladysmith | | ۰. | | | | | |
| Lund | | | | , | | | |
| Nanaimo | 3 | 6 | 100 | 257 [·] | .029 | .023 | |
| Pender Harbour | 2 | l | 3 | 17 | .400 | .056 | |
| Powell River | - | 1, | 40 | 161 | - | .006 | |
| Qualicum North | | | | | | | |
| Qualicum South | 1 | 1 | 56 | 49 | .018 | .020 | |
| Richmond | | ∸ . | ŕ | 4 | - | - | |
| Saanich Inlet | ິ 1 | 2 | 74 | 242 | .013 | .008 | |
| Sooke | · 2 | 9 | 97 | 534 | .020 | .017 | |
| Vancouver | . – | . – | 1 | 10 | · _ | - | |
| West Vancouver | 2 | 3 | 6 | 35 | .250 | .079 | |
| Victoria | - | - | 8 | 33 | - | | |
| Sidney | - | 2 | - | 10 | - | .167 | |
| All Areas | 30 | 25 | 592 | 1,395 | .048 | .018 | |

TABLE N-4: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, OCTOBER 1980 ·· .

.

Γ

CH - Chinook Legend: CO - Coho

| TABLE N-5: | MARKED/UNMARKED F | ISH SUMMARY FROM | GEORGIA STRAIT CREEL |
|------------|-------------------|------------------|----------------------|
| | SURVEY RAW DATA, | NOVEMBER 1980 | • |

| | | Numbe | r | | Dronorti | | |
|------------------|----|-------|----|-------|---------------------|--------------|--|
| • | Ma | rked | | arked | Proportic Marked | | |
| Area of Landing | 00 | Сн | CO | CH | CO | CH | |
| Campbell River | - | _ | - | 8 | - | - | |
| Chemainus | | | | | | | |
| Central Comox | - | - | - | 18 | - | - | |
| North Comox | | | | | | | |
| South Comox | | | | | • | | |
| Cowichan Bay | - | 6 | 12 | 41 | - | .128 | |
| Delta | | | | | | | |
| Egmont | | · | | | | | |
| Gibson's Landing | | | | | • | | |
| Ladysmith | | | | | | | |
| Lund | | | | | | | |
| Nanaimo · | - | 2 | 10 | 76 | - | .026 | |
| Pender Harbour | - | 4 | - | 48 | · _ | .077 | |
| Powell River | - | - | I | 21 | - 、 | - | |
| Qualicum North | | | | | | | |
| Qualicum South | - | - | - | 4 | - | · _ | |
| Richmond | | | | | | | |
| Saanich Inlet | - | - | 53 | 122 | - | - | |
| Sooke | l | 2 | 15 | 155 | .063 | .013 | |
| Vancouver | - | 1 | - | 26 | - | .037 | |
| West Vancouver | - | 1 | - | 42 | - | .023 | |
| Victoria | - | · - | 7 | 49 | · _ | - | |
| Sidney | - | - | - | 10 | - | . | |
| All Areas | l | 16 | 98 | 620 | .010 | .025 | |

Legend: CO - Coho CH - Chinook

-

TABLE N-6: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER 1980

| | | Numb | er | | Proporti | | |
|------------------|------------|------|-------------|-------|----------|------|--|
| | Mai | rked | Unm | arked | Marked | | |
| Area of Landing | 00 | CH | CO | CH | CO | CH | |
| Campbell River | - | | - | 28 | - | - | |
| Chemainus | | | • | | | | |
| Central Comox | · _ | - | | 14 | - | - | |
| North Comox | | | | | | | |
| South Comox | | | | | | | |
| Cowichan Bay | - | - | - | 18 | - | | |
| Delta | | | | | e. | | |
| Egmont | | | | | | | |
| Gibson's Landing | | | | | | | |
| Ladysmith | | | • | ι, | | | |
| Lund | | | | | | | |
| Nanaimo | - | 3 | . - | 87 | - | .033 | |
| Pender Harbour | - | 2 | _ | 21 | | .087 | |
| Powell River | - | - | 2 | - | - ' | - | |
| Qualicum North | | | | | | | |
| Qualicum South | | | | | | | |
| Richmond | | | | | | | |
| Saanich Inlet | - | - | 82 | 97 | - | - | |
| Sooke | – ' | - | 5 | 159 | - | - | |
| Vancouver | - | - | - | 10 | - | - | |
| West Vancouver | - | 2 | - | 39 | - | .049 | |
| Victoria | - | - | 2 | 54 | - | - | |
| Sidney | - | - | | 9 | - | - | |
| All Areas | 0 | 7 | 91 | 536 | - | .013 | |

Legend: CO - Coho CH - Chinook

| | | Numl | ber | | | | | |
|------------------|-----|------|-----|--------|------------|---------------------|--|--|
| | Ma | rked | | marked | | roportion Marked | | |
| Area of Landing | CO | СН | co | СН | CO. | Сн | | |
| Campbell River | | _ | 1 | 51 | | _ | | |
| Chemainus | _ | - | ±. | 51 | _ | _ | | |
| Central Comox | _ | | _ | 65 | _ | _ | | |
| North Comox | | | | | | | | |
| South Comox | | | | | | | | |
| Cowichan Bay | _ | 4 | 1 | 84 | - | .045 | | |
| Delta | | - | - | | | | | |
| Egmont | • | | | | • | | | |
| Gibson's Landing | | | | | • | | | |
| Ladysmith | l | 4 | 9 | 84 | .100 | .045 | | |
| Lund | | | | | | | | |
| Nanaimo | - | 4 | 14 | 229 | - | .017 | | |
| Pender Harbour | | 1 | - | 12 | - | .077 | | |
| Powell River | · 1 | | 9 | 2 | .100 | - | | |
| Qualicum North | | | | | | | | |
| Qualicum South | 1 | - | 13 | 13 | .071 | - | | |
| Richmond | | | | | | | | |
| Saanich Inlet | - | 2 | 166 | 318 | - | .006 | | |
| Sooke | · l | 1 | 17 | 255 | .056 | .004 | | |
| Vancouver | ~ | 1 | 2 | 68 | - | .014 | | |
| West Vancouver | - | 4 | - | 60 | - | .063 | | |
| Victoria | - | 1. | 10 | 133 | - | .007 | | |
| Sidney | - | - | - | 123 | - ' | - | | |
| All Areas | 4 | 22 | 242 | 1,497 | .016 | .014 | | |

TABLE N-7: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY 1981

Legend: CO - Coho CH - Chinook

N-8

| | | - <u>;</u> | | | | | |
|-----------------|-----|------------|------|-------|----|--------|--------|
| | · . | Numb | er | | | Prom | ortion |
| Area of Landing | Ma | rked | Unma | arked | | Marked | |
| | 00 | СН | со | СН | 1. | CO | СН |
| Campbell River | - | - | - | 35 | | - | - |
| Chemainus | | | • | | | | |
| Central Comox | - | - | - | 11 | - | - | - |
| North Comox | | | | | | | |
| South Comox | | | | | | | |
| Cowichan Bay | - | - | 6 | 4 | | - | - |
| Delta | | | ÷ | | | | |
| Egmont | | | | | | | · |

TABLE N-8: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEBRUARY 1981

_

Lund Nanaimo .024 7 9 280 Pender Harbour 8 .200 2 Powell River .500 1 1 Qualicum North Qualicum South 3 20 Richmond 91 .015 .011 Saanich Inlet 1 1 64 .007 2 48 271 Sooke _ 37 -Vancouver 1 50 · West Vancouver 35 115 Victoria 1 41 Sidney .012 .012 2 12 170 983 All Areas ١

2

20

Legend: CO - Coho CH - Chinook

Gibson's Landing

Ladysmith

| | | Numb | er | | Proportion | | |
|------------------|-----|----------|--------------|-------|------------|-------|--|
| | Mai | rked | Unm | arked | | arked | |
| Area of Landing | co | СН | CO | СН | ° CO | CH | |
| Campbell River | - | · _ | 10 | 9 | - | - | |
| Chemainus | | | | | | | |
| Central Comox | - | - | - | - | - | - | |
| North Comox | | | | | | | |
| South Comox | | | | | | | |
| Cowichan Bay | - | 2 | 4 | 6 | - | .250 | |
| Delta | | | | | | | |
| Egmont | | | | | | | |
| Gibson's Landing | | | | | | | |
| Ladysmith | - | - | 3 | 2 | - | | |
| Lund | | | | | | | |
| Nanaimo | - | l | 28 | 103 | - | .010 | |
| Pender Harbour | - | - | 14 | 12 | - | | |
| Powell River | - | _ | - | - | - | - | |
| Qualicum North | | | | | | | |
| Qualicum South | - | - | 6 | 25 | - | - | |
| Richmond | | | | | | | |
| Saanich Inlet | - | - | 41 | 68 | - | - | |
| Sooke | | - | 9 <u>1</u> · | 112 | - | - | |
| Vancouver | - | 1 | 7 | 20 | - | .048 | |
| West Vancouver | - | 1 | - | 55 | | .018 | |
| Victoria | - | - | 78 | 36 | - | | |
| Sidney | - | - | - | 14 | - | - | |
| All Areas | Ō | 5 | 282 | 462 | - | .011 | |

TABLE N-9: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCH 1981

Legend: CO - Coho CH - Chinook

Π

TABLE N-10: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL 1981

| | | Numb | er | , | D | | |
|------------------|------------|------------|-----------------|-------|------------|-------------------|--|
| · . | Mai | rked | | arked | - | portion larked | |
| Area of Landing | co | CH | co | СН | СО | СН | |
| Campbell River | j l | 2 | 21 | 4 | .045 | . 333 | |
| Chemainus | | | • | | | | |
| Central Comox | 13 | 8 | 71 | 17 | .155 | .320 | |
| North Comox | | | | | | | |
| South Comox | | | | | | | |
| Cowichan Bay | . – | - ` | 2 | - | - | - | |
| Delta | | | | · · | | | |
| Egmont | · | | | | | | |
| Gibson's Landing | | | | | • | | |
| Ladysmith | . = | - | l | l | - | - | |
| Lund | | | | | | | |
| Nanaimo | 3 | 3 | 68 | · 20 | .042 | .130 | |
| Pender Harbour | S . | . – | 36 | 4 | .182 | · - | |
| Powell River | - | l | _ `_ | 7 | - | .125 | |
| Qualicum North | | | | | | | |
| Qualicum South | . 2 | - | 23 | 5 | .067 | - | |
| Richmond | • | | | | | | |
| Saanich Inlet | | 1. | 4 | 59 | - | .017 | |
| Sooke | 3 | 1 | 76 | 96 | .038 | .010 | |
| Vancouver | - | - | - | 17 . | - | - | |
| West Vancouver | _ | - | - | 17 | . – | - | |
| Victoria | · – | | 8 | 2 | - | - | |
| Sidney | - | - · | 2 | 1 | - | - | |
| All Areas | 30 | 16 | 317 | 250 | .086 | .060 | |

Legend: CO - Coho

CH - Chinook

| | <u></u> | | | | | |
|------------------|------------|----------------|----------|-------|----------------------|------------|
| | ~ | Numl | ber | | | autian |
| | Mar | ked | Unmarked | | Proportion Marked | |
| Area of Landing | co | СН | CO | CH | CO | CH |
| Campbell River | 20 | 8 | 252 | 207 | .074 | .037 |
| Chemainus | | | • | | | |
| Central Comox | 25 | 14 | 417 | 161 | .057 | .080 |
| North Comox | 37 | - | 642 | 9 | .054 | - |
| South Comox | | | | | | |
| Cowichan Bay | 1 | 3 | 3 | 6 | .250 | .333 |
| Delta | | | | | | - |
| Egmont | | | | | | |
| Gibson's Landing | - | - | . 9 | 34 | ÷ | - |
| Ladysmith | - · | | - | - | - | · |
| Lund | 1 | - | 5 | - | .167 | - |
| Nanaimo | 21 | 2 | 147 | 38 | .125 | .050 |
| Pender Harbour | 2 | 4 | 39 | 41 | .049 | .089 |
| Powell River | 15 | 5 | 68 | 8 | .181 | .385 |
| Qualicum North | 12 | - | 156 | 12 | .071 | - |
| Qualicum South | 53 | 4 | 898 | 260 | .056 | .015 |
| Richmond | | | | | 1 | |
| Saanich Inlet | - | 1 | 7 | 273 | - | .004 |
| Sooke | 5 | [`] 6 | 66 | 209 | .070 | .028 |
| Vancouver | - | 3 | 9 | 75 | - | .038 |
| West Vancouver | - | 10 | 22 | 171 | - | .055 |
| Victoria | - | 1 | 1 | 87 | · _ | .011 |
| Sidney | . – | - | - | 93 | - | ` = |
| All Areas | 192 | 61 | 2,741 | 1,684 | .065 | .035 |
| | | | | | | |

TABLE N-11: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY 1981

Legend: CO - Coho CH - Chinook

| | | Nun | ber | | B | |
|------------------|------|------|-------|--------|----------|----------------|
| | Mar | :ked | | marked | . – | ortion rked |
| Area of Landing | 02 | CH | СО | СН | co | СН |
| Campbell River | 53 | 4 | 729 | 166 | .068 | .024 |
| Chemainus | - | 5 | 20 . | 71 | _ | .066 |
| Central Comox | 34 | 10 | 634 | 146 | .051 | .064 |
| North Comox | 131 | 6 | 1,792 | 50 | .068 | .107 |
| South Comox | | | | | | |
| Cowichan Bay | 2 | 4 | 4 | 33 | .333 | .108 |
| Delta | . – | · _ | l | 7 | | . |
| Egmont | · , | | | | | |
| Gibson's Landing | - | l | 17 | 95 | - | .010 |
| Ladysmith | - | l | · 7 | 32 | · _ | .030 |
| Lund | 11. | 2 | 44 | 2 | .200 | .500 |
| Nanaimo | 18 | - | 134 | 83 | .118 | |
| Pender Harbour | 17 | 7 | 65 | 23 | .207 | .233 |
| Powell River | . 98 | 16 | 382 | 49 | .204 | .246 |
| Qualicum North | 22 | - | 237 | 21 | .085 | - |
| Qualicum South | 34 | 2 | 409 | 135 | .077 | .015 |
| Richmond | ~ | - | 8 | 30 | - | - |
| Saanich Inlet | - | 2 | 6 | 140 | - | .014 |
| Sooke | - | 6 | 23 | 312 | · - | .019 |
| Vancouver | | 3 | 9 | 50 | - | .057 |
| West Vancouver | _ 1 | 7 | 46 | 170 | .021 | .040 |
| Victoria | • | - | l | 44 | - | - |
| Sidney | - | - | 1 | 29 | - | - |
| All Areas | 421 | 76 | 4,569 | 1,688 | .084 | .043 |

TABLE N-12: MARKED/UNMARKED FISH SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JUNE 1981

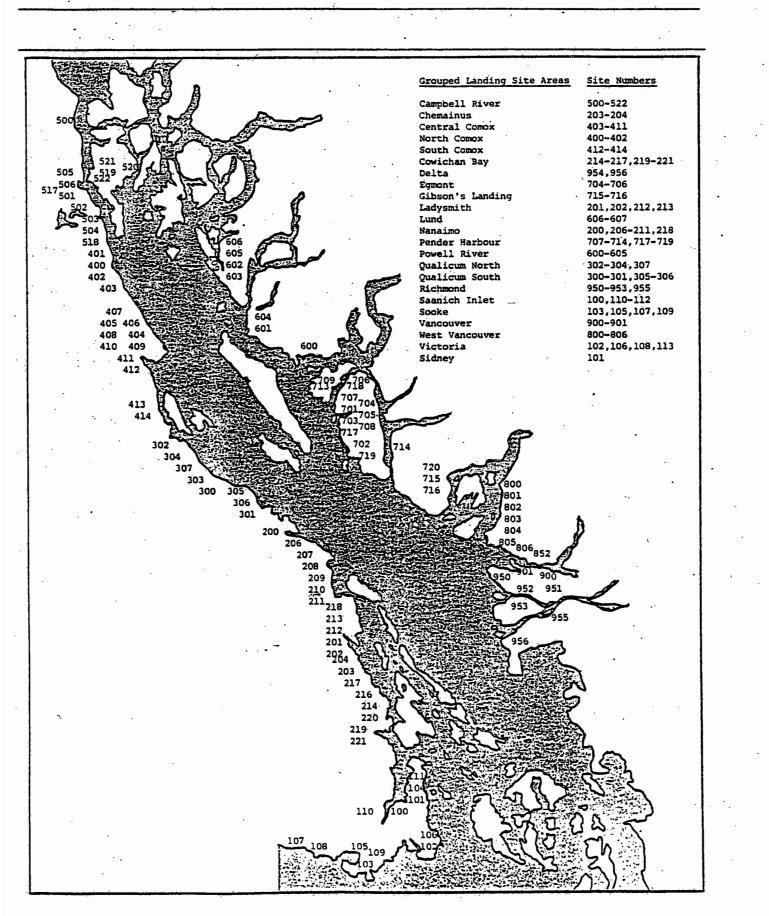
Legend: CO - Coho CH - Chinook

Source: 1980/81 Georgia Strait Sport Fishing Creel Survey

E

APPENDIX O

PARTY CHARACTERISTICS SUMMARIES FROM GEORGIA STRAIT CREEL SURVEY RAW DATA



0-1

. .

| | | | | | | | | | | | - , | | | | | |
|---------------------|----------------------|------------------|--------|---------|--------|----------|--------|------------|--------|----------------|----------|----------------|----------------|---------------------------------------|---------------------------------------|-----------------|
| ۰ ۰ ۰ | | | • | | | | | • • | | | | | a sta | | . <u>.</u> | · , , , , |
| TABLE 0-12: PARTY C | HARACTERISTICS SUP | MARY FROM | GEORGI | A STRAI | T CREE | EL SURVI | ey raw | DATA, | JUNE 1 | .981 | | | | | | ·. |
| | | · · · · | | | - | | | • . | I | ercent | : Distri | lbution | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | |
| · . | No. of Interviews | Average Party | | | Party | Size | • | , <u>F</u> | Party | | | y Age Years | Bo Owne | at rship | - | Boat eration |
| Area of Landing | (Boat Trips) | <u>Size</u> | 1 | 2. | 3 | 4 | 5+ | BC | ROC | ROW | <16 | ≥16 | Rental | Private | Guided | Non-Guided |
| Campbell River | 572 | 2.53 | 10.5 | 48.4 | 27.1 | 8.7 | 5.3 | 79.7 | 12.6 | 7.7 | 8.1 | 91.9 | 25.0 | 75.0 | 23.9~ | 76.1 |
| Chemainus | 74 | 2.51 | 12.2 | 52.7 | 12.2 | 21.6 | 1.3 | 99.0 | .5 | .5 | 16.7 | 83.3 | - ' | 100.0 | - | 100.0 |
| Central Comox | 406 | 2.15 | 22.7 | 49.3 | 20.9 | 5.9 | 1.2 | 95.8 | 3.2 | 1.0 | 8.6 | 91.4 | 4.0 | · 96. 0 | .7 | 99.3 |
| North Comox | 601 | 2.27 | 14.6 | 56.7 | 18.1 | 8.2 | 2.4 | 20.2 | 4.2 | 75.6 | 4.3 | 95.7 | 1.9 | 98.1 | .3 | 99.7 |
| South Comox | - | | | ż | | | | | 1 | | | | | | | - |
| Cowichan Bay | 66 | 2.42 | 18.2 | 39.4 | 28.8 | 10.6 | 3.Ò | 97.5 | 2.5 | , - | 18.1 | 81.9 | 3.0 | 97.0 | · _ | 100.0 |
| Delta | 18 | 2.78 | 5.6 | 27.8 | 49.9 | 16.7 | | 100.0 | - | - | 10.0 | 90.0 | " - | 100.0 | - | 100.0 |
| Egmont | | 2 | | | | | | | | | • | · . | • | | | C |
| Gibson's Landing | 81 | 2.41 | 21.0 | 38.3 | 25.9 | 8.6 | 6.2 | 97.9 | - | 2.1 | 4.1 | 95.9 | 1.2 | 98.7 | , - | 100.0 |

-Gibson's Landing 81 98,7 21.0 8.6 4.1 1.2 38.3 0.2 97.9 35 3.3 10.0 90.0 100.0 2.57 14.3 37.1 31.4 11.4 5.8 96.7 Ladysmith _ _ 91.5 100.0 34 2.09 14.7 67.6 11.8 .5.9 78.9 5.6 15.5 8.5 Lund --93.2 100.0 213 2.47 12.7 51.6 19.7 11.3 4.7 4.9 1.9 8.1 91.9 _ Nanaimo 97.7 91 2.51 15.4 47.3 18.7 12.1 6.5 96.0 1.3 2.7 6.1 93.9 2.3 Pender Harbour 46.4 24.3 1.5 15.4 84.6 -100.0 **Powell River** 222 2.48 12.6 14.0 2.7 96.5 2.0 93.9 30.6 69.4 158 59.5 15.8 27.0 24.1 6.1 1.97 22.8 1.9 48.9 Qualicum North -2.13 59.2 13.1 7.9 92.8 4.7 19.0 .9 96.7 2.1 1.2 7.2 95.3 343 Qualicum South Richmond 7.8 40.6 34.4 7.8 93.6 100.0 ·64 2.70 9.4 97.1 1.2 1.7 6.4 -Saanich Inlet 54.6 19.5 .2 90.7 5.8 94.2 262 17.9 6.1 1.9 96.3 3.5 .9.3 2.20 Sooke 818 2.12 19.9 57.8 15.2 6.1 1.0 97.1 2.3 .6 6.8 93.2 9.0 91.0 73 Vancouver 2.40 50.7 26.0 91.5 1.1 7.5 92.5 100.0 12.3 8.2 2.8 7.4 -----West Vancouver 392 8.7 49.7 28.3¹ 2.8 9,6 90.4 28.0 72.0 2.50 10.7 92.6 2.6 4.6

Victoria 130 23.1 56.2 **`13.1** 5.4 10.3 89.7 100.0 -100.0 2.10 2.2 99.6 .4 ----÷., Sidney 67 11.9 49.3 20.9. 11.9 97.6 .6 12.4 87.6 100.0 -100.0 2.54 6.0 1.8 -Total 4,720 5.0 12,2 8.2 91.8 9.3 90.7 . 3. 3 96.7 2.30 82.8 16.0 52.7 20.4 8.3 2.6 ROC - Rest of Canada

Legend: BC - British Columbia

ç. £

ROW - Rest of World

100.0

100.0

100.0

100.00

100.0

100.0

98.8

100.0

100.0

99.8

100.0

98.2

-<u>_</u>

1.2

.2

-

| | | | | | | | | | | Percent | Distri | bution | | | | <u></u> |
|-----------------|----------------------|------------------|------|------|---------|------|-----|-------|-----------------|------------|--------|-------------------|-------------|---------------|-----------------|-----------------|
| | No. of Interviews | Average Party | | | Party 1 | Size | • . | | Part: Reside | | | y Age Years | Bo Owne: | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Gu ịđe đ | Non-Guide |
| Campbell River | 394 | 2.38 | 17.0 | 44.7 | 26.6 | 7.6 | 4.1 | 78.8 | 12.6 | 8.6 | 8.2 | 91.8 | 7.9 | 92.1 | 7.3 | 92.7 |
| chemainus | | | | | | | . · | | | | | | | | | |
| entral Comox | 293 | 2.31 | 18.8 | 47.1 | 21.2 | 10.6 | 2.3 | 96.1 | 2.6 | 1.3 | 14.3 | 85.7 | .3 | 99 . 7 | 1.0 | 99.0 |
| orth Comox | 196 | 2.00 | 17.3 | 67.9 | 12.2 | 2.6 | - | 11.5 | 4.1 | 84.4 | .5 | 99.5 | 1.1 | 98.9 | 1.1 | 98.9 |
| outh Comox | | | | | | | | | | | | | | | | |
| owichan Bay | 31 | 2.52 | 6.5 | 48.3 | 32.3 | 12.9 | · _ | 100.0 | - | _ ' | 11.5 | 88.5 | · _ | 100.0 | ~ | 100.0 |
| elta | | | | | | | | | | | | | | | | |
| gmont | | | | | | | | | | | | | | | | |
| ibson's Landing | 28 | 2.18 | 35.7 | 39.3 | 14.3 | 3.6 | 7.1 | 90.2 | 9.8 | - | 11.5 | 88.5 | 3.7 | 96.3 | _ | 100.0 |
| adysmith | 2 | 2.50 | 50.0 | 50.0 | - | - | · - | 100.0 | - | - | 60.0 | 40.0 | - | 100.0 | - | 100.0 |
| und | 12 | 2.08 | 25.0 | 50,0 | 16.7 | 8.3 | - | 80.0 | - | 20.0 | . 8.0 | 92.0 | <u>-</u> | 100.0 | - | 100.0 |
| anaimo | 122 | 2.47 | 17.2 | 46.7 | 16.4 | 13.9 | 5.8 | 93.7 | 6.0 | .3 | 8.0 | 92.0 [°] | - | 100,0 | - | 100.0 |
| ender Harbour | 62 | 2.34 | 25.8 | 37.1 | 17.7 | 16.1 | 3.3 | 95.9 | 3.4 | .7 | 8.9 | 91.1 | 5.1 | 94.9 | 1.7 | 98.3 |
| owell River | 93 | 2.42 | 14.0 | 46.2 | 28.0 | 8.6 | 3.2 | 98.7 | 1.3 | - | 11.1 | 88.9 | - | 100.0 | . – | 100.0 |
| ualicum North | 63 | 1.86 | 28.6 | 58.7 | 11.1 | 1.6 | - | 67.5 | 15.4 | 17.1 | 5.1 | 94.9 | 17.7 | 82.3 | - | 100.0 |
| ualicum South | 549 | 2.22 | 17.5 | 54.3 | 18.6 | 8.2 | 1.4 | 94.2 | 4.8 | 1.0 | 9.4 | 90.6 | 3.3 | 96.7 | .4 | 99.6 |
| ichmond | | | | | | | | | | | | | | | | |
| aanich Inlet | 320 | 2.29 | 19.4 | 49.4 | 18.1 | 10.0 | 3.1 | 96.3 | 2.6 | ·1.1 | 9.0 | 91.0 | 6.1 | 93.9 | .3 | 99.7 |
| ooke | 505 | 2.12 | 21.2 | 54.3 | 17.6 | 5.9 | 1.0 | 96.6 | 3.2 | .2 | 8.6 | 91.4 | 9.2 | 90.8 | . 4 | 99.6 |
| ancouver | 107 | 2.28 | 12.1 | 60.7 | 18.7 | 5.6 | 2.8 | 93.5 | 5.7 | .8 | 9.0 | 91.0 | - | 100.0 | _ ' | 100.0 |
| est Vancouver | 325 | 2.63 | 9.2 | 45.5 | 27.1 | 12.0 | 6.2 | 92.4 | 4.8 | 2.8 | 10.5 | 89.5 | 41.5 | 58.5 | .6 | 99.4 |
| ictoria | 149 | . 1.97 | 26.2 | 53.7 | 17.4 | 2.0 | .7 | 98.6 | 1.4 | - | 12.2 | 87.8 | - | 100.0 | - | 100.0 |
| idney | 136 | 2.34 | 15.4 | 52.9 | 18.4 | 9.6 | 3.7 | 94.7 | 4.4 | .9 | 12.2 | 87.8 | - | 100.0 | - | 100.0 |
| otal | 3,387 | 2.27 | 17.9 | 51,2 | 20.1 | 8.1 | 2.7 | 88.5 | 5.0 | 6.5 | 9.4 | 90.6 | 7.8 | 92.2 | 1.2 | 98,8 |

.

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

TABLE 0-11: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY 1981

TABLE 0-10: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL 1981

- 1

| | | | | | | | | | P | ercent | Distri | bution | | | | |
|------------------|----------------------|------------------|-------|------|------------|------|-----|--------------|------------------|----------------|--------|----------------|------------|-------------|------------|-----------------|
| | No. of Interviews | Average Party | | • • | Party 8 | ize | | | Party Residen | | | y Age Years | Bo Owne | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | . 3 | 4 | .5+ | BC | ROC | ROW | <16 | <u>≥</u> 16 | Rental | Private | Guided | Non-Guide |
| Campbell River | 46 | 2.80 | 4.3 | 39.1 | 37.0 | 13.0 | 6.6 | 89.1 | 10,9 | . - | 10.9 | 89.1 | 6.7 | 93.3 | . 6.7 | 93.3 |
| Chemainus | | | | - | | | | | · • . | | | | | • . | · · · | |
| Central Comox | 52 | 2.37 | 17.3 | 50.0 | 17.3 | 9.6 | 5.8 | 88.7 | 8.7 | 2.4 | 5.7 | 94.3 | 1.9 | 98.1 | 1.9 | 98.1 |
| North Comox | | | | | | | | | | | | | - | | | |
| South Comox | | | | | | | | | | | | | | | | |
| Cowichan Bay | 12 | 2.42 | - 8.3 | 66.7 | 8.3 | 8.3 | 8.4 | 100.0 | - | - | 27.6 | 72.4 | - | 100.0 | - | 100.0 |
| Delta | | | | • | • | | | | | | | | | | | |
| Egmont | | | | | | | | | - | | | | | | | |
| Gibson's Landing | • | | | | | | | | | | | | | | | , |
| Ladysmith | 5 | 2.40 | 20.0 | 40.0 | 20.0 | 20.0 | - | 100.0 | - | - | 25.0 | 75.0 | - | 100.0 | · _ | 100.0 |
| Lund | | | | - | | | | | | | | | | | | |
| Nanaimo | 7 1 | 2.38 | 23.9 | 36,6 | 22.5 | 14.1 | 2.9 | 98,2 | 1.8 | - | 14.8 | 85.2 | - | 100.0 | - | 100.0 |
| Pender Harbour | 60 | 2.45 | 21.7 | 41.7 | 18.3 | 11.7 | 6.6 | 98.0 | - | 2.0 | 19.7 | 80.3 | - | 100.0 | - | 100.0 |
| Powell River | 8 | 2.50 | - | 75.0 | - | 25.0 | - | 100.0 | - | - | 20.0 | 80.0 | - | 100.0 | - | . 100.0 |
| Qualicum North | | | | | | | | | | | | | | | | |
| Qualicum South | 20 | 2.35 | 20.0 | 50.0 | 10.0 | 15.0 | 5.0 | 97.9 | 2.1 | | 19.2 | 80.8 | - | 100.0 | . <u> </u> | 100.0 |
| Richmond | | | | | | | | | | | | | | | | |
| Saanich Inlet | 95 | 2.19 | 24.2 | 47.4 | 16.8 | 8.4 | 3.2 | 94.2 | 3.4 | 2.4 | 7.7 | 92.3 | 7.4 | 92.6 | 3.2 | 96.8 |
| Sooke | 242 | 2.13 | 19.8 | 56.6 | 16.5 | 5.4 | 1.7 | 94.4 | 4.3 | 1.3 | 7.2 | 92.8 | 6.5 | 93.5 | .4 | 9 9.6 |
| Vancouver | 29 | 2.03 | 31.0 | 41.4 | 24.1 | - | 3.5 | 98 .3 | 1.7 | - | 1.7 | 98.3 | <u> </u> | 100.0 | • _ | 100.0 |
| West Vancouver | 65 | 2.32 | 27.7 | 36.9 | 20.0 | 10.8 | 4.6 | 96.0 | 4.0 | - | 4.0 | 96.0 | 63.1 | 36.9 | 3.1 | 96.9 |
| Victoria | 11 | 2.36 | - | 63.6 | 36.4 | - | | 100.0 | - · | - | 3.8 | 96.2 | • _ | 100.0 | - | 100.0 |
| Sidney | 17 | 2.53 | - | 58.8 | 29.4 | 11.8 | - | 100.0 | - | - | 4.7 | 95.3 | - | 100.0 | - | 100.0 |
| Total | 733 | 2.29 | 19.8 | 48.6 | 19.4 | 8.9 | 3.3 | 95.1 | 3.9 | 1.0 | 9.6 | 90,4 | 9.4 | 90.6 | 1.4 | 98.6 |

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

TABLE 0-9: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCH 1981

| | | | | | ····· | <u></u> | | | I | Percen | t Distr | ibution | | | | |
|------------------|----------------------|------------------|------|------|---------|---------|---------|-------|------------------|--------|---------|-----------------|------------|-------------|----------|-----------------|
| · . | No. of Interviews | Average Party | | | Party 1 | Size | • | 1 | Part) Resider | | | ty Age Years | Bo Owne | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guided |
| Campbell River | 22 | 2.68 | 18.2 | 31.8 | 13.6 | 36.4 | - | 67.8 | 32.2 | - | 11.8 | 88.2 | 4.5 | 95.5 | 4.5 | 95.5 |
| Chemainus - | | | • | | | | | | | | | • | | | | |
| Central Comox | 13 | 2.31 | 15.4 | 53.8 | 15.4 | 15.4 | - | 100.0 | - | - | 23.3 | 76.7 | - | 100.0 | <u>-</u> | 100.0 |
| North Comox | | | | | | | | | | | | | | | | |
| South Comox | | | | | | • | | | | | | | | | | |
| Cowichan Bay | 18 | 2.06 | 27.8 | 44.4 | 22.2 | 5.6 | - | 97.3 | 2.7 | - | 5.4 | 94.6 | - | 100.0 | - | 100.0 |
| Delta | | | | | | | | | | | | | | | | - |
| Egmont | | | | | | | | | | | | | | | | |
| Gibson's Landing | , | | | | | | | • | | | | | | | | |
| Ladysmith | 5. | 2,20 | 20.0 | 40.0 | 40.0 | - | | 100.0 | - | - | 9.1 | 90.9 | - | 100.0 | - | 100.0 |
| Lund | | | | | | | - | | | | | | | | | |
| Nanaimo | 85 | 2.09 | 21.2 | 54.1 | 20.0 | 3.5 | 1.2 | 100.0 | - | - | 10.7 | 89.3 | - | 100.0 | - | 100.0 |
| Pender Harbour | . 46 | 2.37 | 32.6 | 28.3 | 26.1 | 6.5 | 6.5 | 96.3 | <u></u> | 3.7 | 10.1 | 89,9 | 2.2 | 97.8 | 2.2 | 97.8 |
| Powell River | 3 | 2.67 | 33.3 | 66.7 | - | - | - | 100.0 | - | - | 12.5 | 87, 5 | - | 100.0 | | 100.0 |
| Qualicum North | | | | | | | • | | | | | | | | | |
| Qualicum South | 15 | 2.27 | 6.7 | 66.7 | 20.0 | 6.6 | -' | 91.2 | 8.8 | - | 2.9 | 97.1 | - | 100.0 | - | 100.0 |
| Richmond | | | | | | | | | | | | | | | | |
| Saanich Inlet | 183 | 2.15 | 23.0 | 53.0 | 17.5 | 4.9 | 1.6 | 92.6 | 7.1 | .3 | 7.1 | 92.9 | 11.8 | 88.2 | . 6 | 99.4 |
| Sooke | 164 | 2.34 | 12.2 | 56.1 | 22.6 | 6.7 | 2.4 | 92.7 | 6.8 | .5 | 8.1 | 91.9 | 9.1 | 90.9 | 2.6 | 97.4 |
| Vancouver | 58 | 2.09 | 19.0 | 58.6 | 17.2 | 5.2 | - | 100.0 | - | - | 5.0 | 95. 0 | - | 100.0 | - | 100.0 |
| West Vancouver | 107 | 1.97 | 31.8 | 46.7 | 14.0 | 7.5 | - | 94.8 | 3.8 | 1.4 | 3.8 | 96.2 | 63.8 | 36.2 | 2.9 | 97.1 |
| Victoria | 61 | 2.16 | 11.5 | 67.1 | 14.8 | 6.6 | <u></u> | 98.5 | 1.5 | - | 6.1 | 93.9 | _ | 100.0 | - | 100.0 |
| Sidney | 25 | 2.32 | 12.0 | 52.0 | 28.0 | 8.0 | - | 98.3 | 1.7 | - | 10.3 | 89.7 | - | 100.0 | · _ | 100.0 |
| Total | 805 | 2.19 | 20.2 | 52,3 | i9.3 | 6.8 | 1.4 | 94.5 | 4.9 | .6 | 7.7 | 92.3 | 13.2 | 86.8 | 1.3 | 98.7 |

.

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

0-5

.

.

' TABLE 0-8: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEBRUARY 1981 . ۰.

| | | | | , | | | | | . · | Percent | Distri | oution | | | | |
|------------------|----------------------|------------------|------|------|--------|-----|------------|-------|------------------|------------|--------|----------------|--------------|-------------|----------|-----------------|
| • | No. of Interviews | Average Party | | P | arty S | lze | | R | Pårt eside | | | y Age (ears | Bo Owne | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | _Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guided |
| Campbell River | 27 | 2.04 | 22.2 | 59.3 | 11.1 | 7.4 | | 100.0 | - | - | 5.5 | 94.5 | - | 100.0 | - | 100.0 |
| Chemainus | | | | | | | | | | | | | | | N | |
| Central Comox | 21 | 1.71 | 33.3 | 61.9 | 4.8 | · _ | - · | 100.0 | - | <u> -</u> | - | 100.0 | - | 100.0 | - | 100.0 |
| North Comox | | | ۰. | | | | | | | | | • | | | | |
| South Comox | | | | | | • | | | • | | | | | | | |
| Cowichan Bay | 26 | 2.00 | 26.9 | 50.0 | 19.2 | 3.8 | .1 | 100.0 | - | - | 7.7 | 92.3 | - · | 100.0 | - | 100.0 |
| Delta | | | | | | | | | | | | | | | | c |
| Egmont | | | | | : | | | | | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | | | | |
| Ladysmith | 26 | 2.35 | 15.4 | 50.0 | 26.9 | 3.8 | 3.9 | 100.0 | ~ | - . | 16.4 | 83.6 | - | 100.0 | - | 100.0 |
| Lund | | | | | | | | • | | | | | | | | |
| Nanaimo | 87 | 2.02 | 24.1 | 54.0 | 17.2 | 4.6 | .1 | 99.4 | .6 | | 10.2 | 89.8 | - | 100.0 | - | 100.0 |
| Pender Harbour | 42 | 2.05 | 33.3 | 42.9 | 11.9 | 9.5 | 2.4 | 96.5 | - | 3.5 | 4.7 | 95.3 | 20.0 | 80.0 | - | 100.0 |
| Powell River | 4 | 2.25 | 25.0 | 25.0 | 50.0 | - | - | 100.0 | - | - | 22.2 | 77.8 | - | 100.0 | - | 100.0 |
| Qualicum North | | | | | | | | | | | | | | | | |
| Qualicum South | 10 | 2.50 | - | 50.0 | 50.0 | - | - | 100.0 | - | - | 8.0 | 92.0 | | 100.0 | · – | 100.0 |
| Richmond | | | | | | | | | | • | | | | | | |
| Saanich Inlet | 198 | 2.27 | 20.2 | 51.5 | 19.7 | 6.1 | 2.5 | 92.5 | 7.1 [.] | . 4 | 6.9 | 93.1 | 10.6 | 89.4 | 2.0 | 98.0 |
| Sooke | 182 | 2.18 | 23.1 | 49.5 | 18.7 | 5.5 | 3.2 | 95.9 | 3.8 | - | 8.8 | 91.2 | 7.2 | 92.8 | - | 100.0 |
| Vancouver | 68 | 2.19 | 5.9 | 73.5 | | 4.4 | _ | 98.7 | 1.3 | - | 4.7 | 95.3 | - | 100.0 | _ | 100.0 |
| West Vancouver | 83 | 1.94 | 33.7 | 43.4 | 18.1 | | _ | 91.9 | .6 | 7.5 | 2.5 | 97.5. | 41.5 | 58.5 | _ | 100.Ö |
| Victoria | 120 | 1.85 | 36.7 | 45.0 | 15.0 | 3.3 | - | 97.3 | | .5 | 7.2 | 92.8 | - | 100.0 | _ · | 100.0 |
| Sidney | 51 | 2.24 | 17.6 | 56.9 | 17.6 | 3.9 | 4.0 | 98.2 | | - | 7.9 | 92.1 | - | 100.0 | - | 100.0 |
| Total | 945 | 2.11 | 24.0 | 51.5 | 17.9 | 5.0 | 1.6 | 96.1 | 2.9 | 1.0 | 7.3 | 92.7 | 8.1 | 91.9 | . 4 | 99.6 |

1

.

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

TABLE 0-7: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY 1981

| | • | | ······ | | | | | | F | ercen | t Distr | ibution | | · · · · · | | · · · · |
|-----------------|----------------------|------------------|-------------|------|---------|------------|------|-------|-------|------------|---------|-----------------|--------------|-------------|--------|-----------------|
| | No. of Interviews | Average Party | | | Party S | Size | | R | Party | | | ty Age Years | Bo Owne | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guided |
| Campbell River | 33 | 2.09 | · 21.1 | 63.6 | 9.1 | - ' | 6.1 | 88.4 | 11.6 | - | - | 100.0 | - | 100.0 | _`· | 100.0 |
| Chemainus | | | | | | | | | • | | | | | | | |
| Central Comox | 38 | 1.84 | 28.9 | 57.9 | 13.2 | - | - | 100.0 | - | . - | 1.4 | 98.6 | - | 100.0 | 、 - | 100.0 |
| North Comox | | | | | | | | · . | | | | | | | | |
| iouth Comox | | | | | | | | | | | | | | | | |
| Cowichan Bay | 61 | 2.21 | 18.0 | 55.7 | 13.1 | 13.1 | 1.0 | 100.0 | - | - | 12.6 | 87.4 | - | 100.0 | - | 100.0 |
| elta | | | | | | | | | | | | | | | | |
| gmont . | | | | | | • | | | | | | | | | | |
| ibson's Landing | | | | | | | | | | | | | | | | |
| adysmith | 33 | 2.21 | 27.3 | 39.4 | 21.2 | 9.1 | 3.0 | 100.0 | - | - ' | 8.2 | 91.8 | - | 100.0 | س | 100.0 |
| und | | | | | | | | 、 ・ | | | | | | | | |
| lana imo | [·] 95 | 1.98 | 31.6 | 49.5 | 12.6 | 3.2 | 3.1 | 99.5 | .5 | - | 9.0 | 91.0 | - | 100.0 | | 100.0 |
| ender Harbour | 38 | 2.34 | 21.1 | 47.4 | 18.4 | 10.5 | 2.6 | 96.6 | 3.4 | - | 4.5 | 95.5 | 13.5 | 86.5 | 2.8 | 97.2 |
| owell River | 9 | 2.33 | - 22.2 | 33.3 | 33.3 | 11.1 | .1 | 100.0 | | - | 23.8 | 76.2 | - | 100.0 | - | 100.0 |
| Jualicum North | | | | | | | | | | | | | | * | | |
| ualicum South | 8 | 2.63 | - | 62.5 | 25.0 | - | 12.5 | 100.0 | - | | 19.0 | 81.0 | - | 100.0 | - | 100.0 |
| Richmond | | | | | • . | | | | . • • | | - | | | | ×_* | , · |
| Saanich Inlet | 230 | 2.15 | 20.0 | 55.2 | 17.4 | 5.7 | 1.7 | 95.8 | 3.8 | .4 | 7.7 | 92.3 | 10.8 | 89.2 | 2.3 | 97.7 |
| Sooke | 239 | 2.10 | 18.4 | 58.6 | 18.8 | 3.3 | .9 | 97.2 | 2.6 | .2 | 6.2 | 93.8 | 11.3 | 88.7 | . 4 | 99.6 |
| ancouver | 85 | 2.28 | 8.2 | 63.5 | 21.2 | 5.9 | 1.2 | 97.4 | - | 2.6 | 7.7 | 92.3 | - | 100.0 | - | 100.0 |
| lest Vancouver | 98 | 2.35 | 14.3 | 51.0 | 23.5 | 8,2 | 3.0 | 85.3 | 11.7 | 3.0 | 6.5 | 93.5 | 63.9 | 36.1 | 2.1 | 97.9 |
| lictoria | . 98 | 2.16 | 16.3 | 59.2 | 17.3 | 6.1 | 1.1 | 98.6 | 1.4 | - | 7.1 | 92.9 | _ | 100.0 | - | 100.0 |
| Sidney | 58 | 2.22 | 19.0 | 50.0 | 22.4 | 6.9 | 1.7 | 98.4 | 1.6 | - | 7.8 | 92.2 | | 100.0 | - | 100.0 |
| Total | 1,123 | 2.16 | 19.2 | 55.3 | 18.1 | 5.6 | 1.8 | 96.3 | 3.1 | .6 | 7.3 | 92.7 | 10.6 | 89.4 | .8 | 99.2) |

.

Developed Distriction

TABLE 0-6: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER 1980

| | • | |
|------|------|---|
| | | - |

| | | | | | | | | | Ę | ercent | Distri | bution | | | · | | _ |
|------------------|----------------------|------------------|------|------|-------|------|------------|--------------|-----------------|--------|--------|----------------|------------|-------------|--------|-----------------|------|
| | No. of Interviews | Average Party | | | Party | Size | ÷ | F | Party esiden | | | y Age Years | Bo | at rship | | Boat eration | |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guide | đ |
| Campbell River | 16 | 2.75 | 6.3 | 50.0 | 25.0 | 6.3 | 12.4 | 85 .4 | 9.7 | 4.9 | 4.5 | 95.5 | - | 100.0 | | 100.0 | |
| Chemainus | | | | | | | | • | | | | | | | | | |
| Central Comox | 11 | 1.82 | 27.3 | 63.6 | 9.1 | ÷ | - | 100.0 | - | - | - | 100.0 | | 100.0 | - | 100.0 | |
| North Comox | | | | | | | | | | | | | | | • | | |
| South Comox | | . · | | | | | | | | | | | | | | | |
| Cowichan Bay | 8 | 2.63 | - | 50.0 | 37.5 | 12.5 | - | 100.0 | - | - | 9.5 | 90.5 | - | 100.0 | - | 100.0 | ~ |
| Delta | | | | | | | | - | | | | | | | | | 0000 |
| Egmont | | | | | | | | | | | | | | | | , | Ĵ |
| Gibson's Landing | | 'n | | | | | | • | | | | | | | ·. | | |
| Ladysmith | | | | | | | | | | | | | | | | | |
| Lund | | | | | | | • | | | | | | | | | | |
| Nanaimo | 51 | 1.73 | 51.0 | 29.4 | 15.7 | 3.9 | - | 100.0 | - | - | 4.5 | 95.5 | - | 100.0 | · _ | 100.0 | |
| Pender Harbour | 31 | 2.23 | 22.6 | 45.2 | 22.6 | 6.5 | 1.3 | 89.9 | 2.9 | 7.2 | 5.8 | 94.2 | 6.5 | 93.5 | 3.2 | 98.5 | |
| Powell River | 7 | 2.29 | 14.3 | 42.9 | 42.8 | - | - | 100.0 | - | - | 12.5 | 87.5 | - | 100.0 | - | 100.0 | |
| Qualicum North | | | | | | , | | | | | • | | | | | | |
| Qualicum South | | | | | | | | | | | | | | | | ` | |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 70 | 1.83 | 35.7 | 50.0 | 10.0 | 4.3 | | 96.1 | 3.1 | .8 | 7.0 | 93.0 | 7.4 | 92.6 | 1.5 | 98.5 | |
| Sooke | 116 | 1.92 | 31.0 | 48.3 | 19.0 | 1.7 | - | 93.7 | 5.8 | .5 | 2.7 | 97.3 | 8.6 | 91.4 | - | 100.0 | |
| Vancouver | 13 | 2.08 | 7.7 | 76.9 | 15.4 | - | - | .92.6 | 7.4 | - | - | 100.0 | - | 100.0 | - | 100.0 | |
| West Vancouver | 4 6 | 1.80 | 43.5 | 37.0 | 15.2 | 4.3 | - | 95.2 | 3.6 | 1.2 | 1.2 | 98.8 | 47.8 | 52.2 | - | 100.0 | |
| Victoria | 33 | 2.18 | 24.2 | 45.5 | 18.2 | 12.1 | <u>_</u> | 97.2 | 1.4 | 1.4 | 5.6 | 94.4 | . - | 100.0 | - | 100.0 | |
| Sidney | 5 | 2.20 | 20.0 | 40.0 | 40.0 | - | - . | 100.0 | - | - | · | 100.0 | - | 100.0 | - | 100.0 | |
| Total | 407 | 1.97 | 31.7 | 45.7 | 17.7 | 4.2 | .7 | 95.0 | 3.6 | 1.4 | 4.2 | 95.8 | 9.7 | 90.3 | .5 | 99.5 | |

. .

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

TABLE 0-5: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, NOVEMBER 1980

i

| | | | | | | | • | | | Percen | t Distri | bution | | | | |
|------------------|----------------------|------------------|------|------|-------|------|-----|-------|-----------------|--------|----------|-------------------|--------|-------------|--------|-----------------|
| | No. of Interviews | Average Party | | | Party | Size | • | F | Party esider | | | y Age Years | | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guided |
| Campbell River | 16 | 1.94 | 25.0 | 56.2 | 18.8 | | - | 96,8 | 3.2 | · - | 3.2 | 96.8 | - | 100.0 | ~ _ | 100.0 |
| Chemainus | | | | | · | | | | | | • | | | • | | |
| Central Comox | 38 | 1.97 | 31.6 | 47.4 | 18.4 | 2.6 | - | 100.0 | - | - | 2.7 | 97.3 [,] | - | 100.0 | - | 100.0 |
| North Comox | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | | |
| Cowichan Bay | 32 | 2.25 | 6.3 | 74.9 | 9.4 | 6.3 | 3.1 | 100.0 | - | - | 22.2 | 77.8 | - | 100.0 | - | 100.0 |
| Delta | | | | | | | | | | | | | | | | ں ا . بو |
| Egmont | | | | | | | | | | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | | • | | |
| Ladysmith | | | | | | | | | | | | | ` | | | |
| Lund | | | | • | | | | | | | | | | | | • |
| Nanaimo | 41 | 1.83 | 31.7 | 53.7 | 14.6 | · - | - | 100.0 | - | - | 5.3 | 94.7 | - | 100.0 | | 100.0 |
| Pender Harbour | 43 | 1.95 | 25.6 | 62.7 | 7.0 | 4.7 | - | 88.1 | 9.5 | 3.4 | 1.3 | 98.7 | 2.4 | 97.6 | - | 100.0 |
| Powell River | 12 | 1.92 | 25.0 | 58.3 | 16.7 | - | | 100.0 | - | | 4.3 | 95.7 | - | 100.0 | - | 100.0 |
| Qualicum North | | | | | | | | | | | | | | | | |
| Qualicum South | 6 | 1.67 | 50.0 | 33.3 | 16.7 | - | - | 100.0 | - | - | 20.0 | 80.0 | - | 100.0 | - | 100.0 |
| Richmond | | | | | | | | | | | | | | · . | | |
| Saanich Inlet | 93 | 2.05 | 31.2 | 53.8 | 9.7 | 2.2 | 3.1 | 82.7 | .8.9 | 8.4 | 3.1 | 96.9 | 18.3 | 81.7 | 4.3 | 95.7 |
| Sooke | 99 | 2.14 | 26.3 | 48.5 | 14.1 | 7.1 | 4.0 | 97.2 | 2.8 | - | 5.6 | 94.4 | 7.1 | 92.9 | _ | 100.0 |
| Vancouver | 44 | 2.07 | 15.9 | 61.4 | 22.7 | - | - | 97.8 | 2.2 | - | 5.5 | 94.5 | - | 100.0 | _ | 100.0 |
| West Vancouver | 57 | 1.93 | 38.5 | 35.1 | 21.1 | 5.3 | - | 97.3 | 2.7 | - | 1.8 | 98.2 | 41.1 | 58.9 | 3.6 | 96.4 |
| Victoria | 28 | 2.04 | 28.6 | 57.1 | 7.1 | 3.6 | 3,6 | 96.5 | 3.5 | - | 3.5 | 96.5 | - | 100.0 | _ | 100.0 |
| Sidney | 24 | 2.29 | 25.0 | 45.8 | 12.5 | 12.5 | 4.2 | 94.5 | 5.5 | - | 10.9 | 89.1 | 8.3 | 91.7 | - | 100.0 |
| Total | 533 | 2.40 | 27.4 | 52.7 | 14.1 | 3.4 | 2.4 | 94.5 | 3.9 | 1.6 | 5.6 | 94.4 | 9.6 | 90.4 | 1.2 | 98.8 |

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

-

٢

1

TABLE 0-4: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, OCTOBER 1980

| | | | . | | | | | | | Percent | Distr | ibution | | | | |
|------------------|----------------------|------------------|----------|------|-------|------|----------------|-------|-----------------|---------|-------|-----------------|------------|-------------|--------|-----------------|
| | No. of Interviews | Average Party | | | Party | Size | | | Party Reside | | | ty Age Years | Bo Owne | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BĊ | ROC | ROW | <16 | <u>≥</u> 16 | Rental | Private | Guided | Non-Guide |
| Campbell River | 179 | 2.58 | 14.5 | 35.2 | 39.7 | 5.0 | 5.6 | 60.4 | 24.5 | 15.1 | 2.6 | 97.4 | 35.8 | 64.2 | 37.7 | 62.3 |
| Chemainus | | | | | | | | • | | | | | | | | |
| Central Comox | 46 | 2.09 | 26.1 | 50.0 | 13.0 | 10.9 | ' - | 92.7 | 7.3 | - | 4.2 | 95,8 | - | 100,0 | 2,2 | 97.8 |
| North Comox | 5 | 1.80 | 40.0 | 40.0 | 20.0 | - | - | 77.8 | 11.1 | 11.1 | - | 100.0 | - | 100.0 | _ | 100.0 |
| South Comox | | • | | | • | | , | | | | | | | | | |
| Cowichan Bay | ·6 | 2.50 | 16.7 | 33.3 | 33.3 | 16.7 | . - | 100.0 | - | - | 6.7 | 93.3 | - | 100.0 | | 100.0 |
| Delta | | | • | | | | | | | | | | | | ; | Ŷ |
| Egmont | | | | | | | | | | | | | | | | οĽ |
| Gibson's Landing | 23 | 2.39 | 26.1 | 43.5 | 4.3 | 21.7 | 4.4 | 96.4 | 3.6 | _' | 10.2 | 89.8 | 9.1 | 90.9 | 4.5 | 95.5 |
| Ladysmith | | | | | • | | | | | | | | | | | 5015 |
| Lund | | | | | | | | | | | | | | | | |
| Nanaimo | 301 | 2.15 | 25.9 | 45.5 | 19.6 | 6.3 | 2.7 | 96.0 | 3.4 | .6 | 11.2 | 88.8 | - | 100.0 | | 100.0 |
| Pender Harbour | 67 | 2.21 | 20.9 | 47.8 | 23.9 | 4.5 | 2.9 | 98.0 | 2.0 | - | 2.0 | 98.0 | 9.1 | 90.9 | - | 100.0 |
| Powell River | 113 | 2.47 | 9.7 | 48.7 | 28.3 | 11.5 | 1.8 | 98.9 | 1.1 | - | 11.2 | 88.8 | - | 100.0 | - | 100.0 |
| Qualicum North | | | | | | , | | | | | | | | • | | |
| Qualicum South | 94 | 2.14 | 21.3 | 52.1 | 20.2 | 5.3 | 1.1 | 94.5 | 5.5 | - | 9.5 | 90.5 | - | 100.0 | - | 100.0 |
| Richmond | 21 | 2.00 | 19.0 | 66.7 | 9.5 | 4.8 | - ` ` | 97.6 | 2.4 | - | 14.3 | 85.7 | | 100.0 | - | 100.0 |
| Saanich Inlet | 319 | 2.13 | 23.5 | 51.1 | 16.3 | 7.5 | 1.6 | 93.8 | 4.4 | 1.8 | 9.7 | 90.3 | 13.0 | 87.0 | 1.6 | 98.4 |
| Sooke | 588 | 2.10 | 19.4 | 56.1 | 20.2 | 3.7 | .6 | 95.8 | 3.5 | .7 | 4.9 | 95.1 | 12.2 | 87.8 | .3 | 99.7 |
| Vancouver | 28 | 2.14 | 14.3 | 64.2 | 17.9 | 3.6 | - | 98.4 | 1.6 | - | 6.7 | 93.3 | | 100.0 | - | 100.0 |
| West Vancouver | 166 | 2.42 | 16,9 | 45.8 | 18,1 | 16.9 | 2.3 | 91.3 | 6.0 | 2.7 | 7.0 | 93.0 | 62.0 | 38.0 | 1.2 | 98,7 |
| Victoria | 132 | 1.94 | 33.3 | 46.2 | 14.4 | 5.3 | .8 | 95.7 | 3.1 | 1.2 | 10.5 | 89.5 | - | 100.0 | - | 100.0 |
| Sidney | . 41 | 2.34 | 19.5 | 48.8 | 19.5 | 7.3 | 4.9 | 100.0 | - | - | 10.4 | 89.6 | 2.4 | 97.6 | - | 100.0 |
| Total | 2,129 | 2.20 | 21.0 | 49.6 | 20.8 | 6.8 | 1.8 | 92.0 | 5.7 | 2.3 | 7.5 | 92.5 | 13.5 | 86.5 | 3.7 | 96.3, |

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

.

| | | | | | | | · | | P | ercent | Distri | bution | | | | | |
|-----------------|----------------------|------------------|------|-------|-------|------|------|---------------|-----------------|--------|--------|----------------|--------------|-------------|--------|-------------------|-----|
| . • | No. of Interviews | Average Party | | | Party | Size | | F | Party esiden | | | y Age Years | Boa Owne: | at rship | - | Boat \ eration | |
| rea of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guid | led |
| ampbell River | 559 | 2.62 | 10.9 | 36.1 | 39.7 | 8.6 | 4.7 | 63.5 | 19.0 | 17.5 | 5.9 | 94.1 | 28.9 | 71.1 | 28.2 | 71.8 | |
| hemainus | 36 | 2.14 | 19.4 | 50.O | 27.8 | 2.8 | - | 96.1 | 3.9 | · | 12.0 | 88.0 | - | 100.0 | - | 100.0 | |
| entral Comox | 186 | 2.34 | 14.0 | 61.3 | 18.3 | 3.8 | 2.6 | 90.9 | 7.2 | 1.9 | 2.9 | 97.1 | 2.7 | . 97.3 | 1.1 | 98.9 | |
| orth Comox | 146 | 2.20 | 19.9 | 54.8 | 15.1 | 7.5 | 2.7 | 45.1 | 13.2 | 41.7 | 3.3 | 96.7 | .7 | 99.3 | - | 100.0 | |
| outh Comox | | | | | | | | | | | | | | | | • . | |
| owichan Bay | 124 | 2.18 | 21.8 | 50.8 | 17.7 | 8:1 | 1.6 | 94.1 | 4.8 | 1.1 | 13.5 | 86.5 | - | 100.0 | | 100.0 | |
| elta | 50 | 2.22 | 20.0 | 56.0 | 12.0 | 8.0 | 4.0 | 96.4 | 3.6 | - | 12.6 | 87.4 | - | 100.0 | - | 100.0 | q |
| gmont | | | | | | | | | | | | | | | | | ł |
| ibson's Landing | 50 | 2.82 | 12.0 | 38.0 | 26.0 | 14.0 | 10.0 | 94.3 | 5.0 | .7 | 5.0 | 95.0 | 17.4 | 82.6 | 6.8 | 93.2 | |
| adysmith | 65 | 2,60 | 13,8 | 43.1 | 24.6 | 10.8 | 7.7 | 94.1 | 3.5 | . 2.4 | 11.9 | 88.1 | - | 100.0 | - | 100.0 | |
| und | . 7 | 2.71 | 42.8 | 42.9 | 14.3 | - | - | 73.7 | 10.5 | 15.8 | 15.8 | 84.2 | - | 100.0 | - | 100.0 | |
| anaimo | 139 | 2.66 | 10.1 | 41.0 | 30.2 | 12.9 | 5.8 | 90.8 | 5.4 | 3.8 | 17.0 | 83.0 | .7 | 99.3 | - | 100.0 | |
| ender Harbour | 115 | 2.61 | 12.2 | 53.0 | 13.0 | 11.3 | 10.5 | 88.0 | 6.6 | 5.3 | 6.1 | 93.9 | 6.4 | 93.6 | 4.6 | 95.4 | |
| owell River | 78 | 2.71 | 2.6 | 47.4 | 30.8 | 15.4 | 3.8 | 93.4 | 3.3 | 3.3 | 14.7 | 85.3 | - | 100.0 | - | 100.0 | |
| ualicum North | . 124 | 2.15 | 12.9 | 62.9 | 20.2 | 4.0 | - | 63.3 | 18.7 | 18.0 | 2.3 | 97.7 | 18.5 | 81.5 | - | 100.0 | |
| ualicum South | 221 | 2.24 | 16.3 | 51.6 | 25.8 | 4.5 | 1.8 | 85.8 | 9.7 | 4.4 | 6.5 | 93.5 | 2.3 | 97.7 | . 5 | 99.5 | |
| ichmond | 98 | 2.48 | 11.2 | 53.1 | 21.4 | 9.2 | 5.1 | 96.3 | 3.7 | - | 14.8 | 85.2 | - | 100.0 | - | 100.0 | |
| aanich Inlet | 356 | 2.45 | 15.7 | 47,.8 | 21.6 | 11.5 | 3.4 | 90.7 | 4.7 | 4.6 | 11.0 | 89.0 | 11.9 | 88.1 | 1.4 | 98.6 | |
| ooke | 289 | 2.07 | 18.6 | 60.2 | 17.0 | 4.2 | - | 95.6 | 4.2 | .2 | 6.2 | 93.8 | 5.5 | 94.5 | .7 | 99.3 | |
| ancouver | 154 | 2.37 | 12.5 | 53.9 | 23.7 | 6.6 | 3.3 | 98.6 | 1.4 | - | 11.1 | 88.9 | - | 100.0 | - | 100.0 | |
| est Vancouver | 322 | 2.36 | 16.8 | 49.4 | 22.0 | 7.8 | 4.0 | 93.3 | 3.3 | 3.4 | 10.2 | 89.8 | 29.9 | 70.1 | 1.9 | 98.1 | |
| lctoria | 164 | 2.20 | 29.9 | 48.2 | 17.1 | 3.7 | 1.1 | 94 . 9 | 4.2 | .8 | 10.0 | 90.0 | - | 100.0 | - | 100.0 | |
| idney | 54 | 2.28 | 24.1 | 44.4 | 18.5 | 9.3 | 3.7 | 97.6 | .8 | 1.6 | 11.4 | 88.6 | 3.8 | 96.2 | - | 100.0 | |
| otal | 3,337 | 2.38 | 15.4 | 49.2 | 24.1 | 7.9 | 3.4 | 84.4 | 8.2 | 7.4 | 8.6 | 91.4 | 11.0 | 89.0 | 5.4 | 94.6 | |

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

TABLE 0-3: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, SEPTEMBER 1980

į

TABLE 0-2: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, AUGUST 1980

.

| | · . | | | | | | • | | | Percen | t Distr | ibution | | | | |
|------------------|----------------------|------------------|------|------|-------|------|------|------|----------------|--------|---------|-----------------|--------|-------------|------------|-----------------|
| | No. of Interviews | Average Party | | | Party | Size | | | Part Reside | | | ty Age Years | | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | • 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | ≥16 | Rental | Private | Guided | Non-Guided |
| Campbell River | 1,834 | 2.64 | 8.6 | 43.6 | 34.5 | 9.7 | 3.6 | 65.7 | 12.5 | 21.8 | 9.6 | 90.4 | 26.0 | 74.0 | 22.3 | 77.7 |
| Chemainus | 107 | 2.52 | 14.0 | 43.0 | 28.0 | 8.4 | 6.6 | 96.0 | 3.3 | .7 | 17.9 | 82.1 | - | 100.0 | _ . | 100.0 |
| Central Comox | 630 | 2.25 | 16.7 | 53.7 | 20.5 | 6.8 | 2.3 | 89.8 | 7.0 | 3.2 | 10.8 | 89.2 | 18.9 | 81.1 | - | 100.0 |
| North Comox | 639 | 2.49 | 13.6 | 50.4 | 18.3 | 12.4 | 5.3 | 36.8 | 18.1 | 45.1 | 8.7 | 91.3 | 2.8 | 97.2 | 1.6 | 98.4 |
| South Comox | 63 | 2.25 | 14.3 | 52.4 | 27.0 | .6.3 | - | 83.9 | 13.3 | 2,8 | 9.2 | 90.8 | 6.3 | 93.7 | | 100.0 |
| Cowichan Bay | 260 | 2.48 | 16.9 | 47.3 | 18.5 | 12.3 | 5.0 | 87.6 | 9.3 | 3.1 | 16.7 | 83.3 | 2.7 | 97.3 | 1.6 | . 98.4 |
| Delta | 285 | 2.59 | 9.8 | 49.1 | 22.1 | 12.3 | 6.7 | 91.6 | 4.2 | 4.2 | 13.1 | 86.9 | _ ' | 100.0 | - | 100.0 |
| Egmont | 116 | 2.99 | 3.5 | 40.9 | 25.2 | 19.1 | 11.3 | 88.1 | 1.4 | 10.5 | 18.3 | 81.7 | 15.5 | 84.5 | - | 100.0 N |
| Gibson's Landing | . 65 | 2.65 | 16.9 | 46.2 | 16.9 | 10.8 | 9.2 | 84.3 | 14.5 | 1.2 | 12.2 | 87.8 | 3.2 | 96.8 | 1.6 | 98.4 |
| Ladysmith | 118 | 2.75 | 12.7 | 42.4 | 15.3 | 22.0 | 7.6 | 89.1 | 5.9 | 5.0 | 18.5 | 81.5 | _ | 100.0 | | 100.0 |
| Lund | 38 | 2.16 | 21.1 | 65.8 | 10.5 | 2.6 | | 35.4 | 3.6 | 61.0 | 9.8 | 90.2 | - | 100.0 | - | 100.0 |
| Nana imo | 585 | 2.57 | 14.7 | 43.8 | 23.1 | 13.2 | 5.2 | 88.1 | 8.0 | 3.9 | 11.3 | 88.7 | 1.4 | 98.6 | .2 | 99.8 |
| Pender Harbour | 771 | 2.81 | 10.9 | 42.4 | 20.6 | 17.4 | 8.7 | 84.7 | 8.9 | 6.4 | 10.4 | 89.6 | 9.0 | 91.0 | 1.6 | 98.4 |
| Powell River | 475 | • 2.70 | 10.9 | 43.2 | 24.4 | 13.5 | 8.0 | 87.5 | 5.9 | 6.6 | 14.4 | 85.6 | 2.8 | 97.2 | .2 | 99.8 |
| Qualicum North | 503 | 2.21 | 16.5 | 56.9 | 17.9 | 7.6 | 1.1 | 59.8 | 16.8 | 23.4 | 12.4 | 87.6 | 21.5 | 78,5 | .2 | 99.8 |
| Qualicum South | 584 | 2.49 | 8.4 | 52.9 | 23.5 | 12.5 | 2.7 | 86.9 | 9.2 | 3.9 | 11.5 | 88.5 | 6.5 | 93.5 | .2 | 99.8 |
| Richmond | 136 | 2.53 | 11.0 | 47.8 | 22.8 | 15.4 | 3.0 | 98.8 | .9 | .3 | 12.0 | 88.0 | - | 100.0 | · _ | 100.0 |
| Saanich Inlet | 587 | 2.57 | 14.1 | 46.5 | 22.3 | 10.2 | 6.9 | 85.7 | 10.0 | 4.3 | 14.4 | 85.6 | 15.9 | 84.1 | 2.2 | 97.8 |
| Sooke | 681 | 2.32 | 21.9 | 49.3 | 17.9 | 7.4 | 3.5 | 89.1 | 7.9 | 3.0 | 11.1 | 88.9 | 10.8 | 89.2 | .4 | 99.6 |
| Vancouver | 241 | 2.37 | 12.9 | 54.8 | 18.7 | 10.8 | 2.8 | 94.2 | 1.7 | 4.1 | 13.0 | 87.0 | - | 100.0 | - | 100.00 |
| West Vancouver | 1,031 | 2.59 | 9.8 | 47.4 | 26.0 | 12.0 | 4.8 | 89.5 | 6.5 | 4.0 | 10.1 | 89.9 | 37.1 | 62.9 | 1.0 | 99.0 |
| Victoria | 309 | 2.19 | 20.1 | 56.0 | 15.2 | 7.4 | 1.3 | 97.2 | 1.6 | 1.2 | 9.5 | 90.5 | · _ | 100.0 | - | 100.0 |
| Sidney | - 3.41 | 2.73 | 17.7 | 35.5 | 19.1 | 17.7 | 10.0 | 93.5 | 6.5 | - | 23.4 | 76.6 | 2.8 | 97.2 | .7 | 99.3 |
| Total | 10,199 | 2.53 | 12.8 | 47.6 | 23.6 | 11.3 | 4.7 | 79.9 | 9.2 | 10.9 | 11.6 | 88.4 | 14.1 | 85.9 | 4.6 | 95.4' |

~

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

TABLE 0-1: PARTY CHARACTERISTICS SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1980

| | | | | Percent Distribution | | | | | | | | | | | | |
|------------------|----------------------|------------------|--------|----------------------|-------|------|-------------|------------|----------------|---------------------|------|----------------|--------|-------------|------------|-----------------|
| | No. of Interviews | Average Party | | | Party | Size | | 、 <u> </u> | Part Reside | - | | y Age Years | • • • | at rship | | Boat eration |
| Area of Landing | (Boat Trips) | Size | 1 | 2 | 3 | 4 | 5+ | BC | ROC | ROW | <16 | <u>></u> 16 | Rental | Private | Guided | Non-Guide |
| Campbell River | 2,229 | 2.62 | 10.2 | 41.3 | 32.8 | 11.0 | 4.7 | 68.6 | 11.9 | , 19, . 5 | 11.1 | 88.9 | 21.0 | 79.0 | 17.1 | 82.9 |
| Chemainus | 166 | 2.46 | 10.2 | 54.8 | 18.1 | 14.5 | 2.4 | 93.2 | 5.6 | 1.2 | 15.7 | 84.3 | - | 100.0 | - | 100.0 |
| Central Comox | 824 | 2.32 | 11.0 | 58.0 | 21.0 | 8.0 | 2.0 | 89.1 | 5.5 | 5.4 | 12.5 | 87.5 | 6.2 | 93.8 | - | 100.0 |
| North Comox | 630 | 2.39 | 10.5 | 54.4 | 22.4 | 10.8 | 1.9 | 32.3 | 14.8 | 52.9 | 10.0 | 90.0 | 5.9 | 94.1 | .7 | 99.3 |
| South Comox | 65 | 2.37 | 12.3 | 49.2 | 27.7 | 10.8 | - | 80.5 | 16.9 | 2.6 | 9.1 | 90.9 | 9.2 | 90.8 | 1.6 | 98.4 |
| Cowichan Bay | 224 | 2.41 | 22.3 | 40.6 | 21.4 | 9.8 | 5.9 | 91.6 | 5.4 | 3.0 | 17.3 | 82.7 | 4.9 | 95.1 | 1.4 | 98.6 |
| Delta | 159 | 2.51 | 8.8 | 50.9 | 27.0 | 8.2 | 5.1 | 96.4 | 1.8 | 1,8 | 11.5 | 88.5 | .6 | 99.4 | _ . | 100.0 |
| Egmont | 159 | 2.40 | .11.9 | 55.3 | 18.2 | 10.7 | 3.9 | 78.7 | 11.0 | 10.3 | 9.7 | 90.3 | 19.1 | 80.9 | .7 | 99.3 U |
| Gibson's Landing | 139 | 2,56 | 14.4 | 39.6 | 26.6 | 15.8 | 3.6 | 94.1 | 4.8 | 1.1 | 12.9 | 87.1 | 10.1 | 89.9 | . – | 100.0 |
| Ladysmith | 124 | 2,63 | 14.5 | 45.2 | 21.0 | 8.9 | 10.4 | 91.1 | 3.7 | 5.2 | 16.0 | 84.0 | - | 100.0 | - | 100.0 |
| Lund | 139 | 2.32 | 21.6 | 48.9 | 15.1 | .7.9 | 6.5 | 38.6 | 3.1 | 58 .3 | 11.3 | 88.7 | - | 100.0 | - | 100.0 |
| Nanaimo | 962 | 2.43 | 15.8 | 47.5 | 20.6 | 12.0 | 4.1 | 90.3 | 6.7 | 3.0 | 12.6 | 87.4 | 1.1 | 98.9 | .3 | 99.7 |
| Pender Harbour | 848 | 2.84 | 10.5 · | 40.6 | 21.8 | 5.1 | 22.0 | 84.1 | 7.6 | 8.3 | 11.5 | 88,5 | 1.5 | 98.5 | 1.1 | 98.9 |
| Powell River | 790 | 2.62 | 11.6 | 45.7 | 22.4 | 5.3 | 1.5 | 91.5 | 3.7 | 4.8 | 13.0 | 87.0 | 3.3 | 96.7 | 1.5 | 98.5 |
| Qualicum North | 430 | 2.20 | 17.2 | 57.2 | 16.5 | 1.4 | 7.7 | 60.1 | 17.2 | 22.7 | 10.8 | 89.2 | 22.9 | 77.1 | - | 100.0 |
| Qualicum South | 923 | 2.41 | 11.4 | 54.1 | 20.0 | 2.4 | 12.1 | 88.6 | 8.7 | 2.7 | 10.4 | 89.6 | 6.9 | 93.1 | .9 | 99.1 |
| Richmond | 136 | 2.76 | 9.6 | 40.4 | 24.3 | 6.6 | 19.1 | 94.9 | 2.4 | 2.7 | 12.9 | 87.1 | | 100.0 | | 100.0 |
| Saanich Inlet | 647 | 2.41 | 15.1 | 50.9 | 19.5 | 3.6 | 10.9 | 87.1 | 8.3 | 4.6 | 12.0 | 88.0 | 11.7 | 88.3 | 1.4 | 98.6 |
| Sooke | 1,047 | 2.23 | 18.9 | 52.8 | 17.7 | 1.8 | 8.8 | 90.7 | 6.9 | 2.4 | 10.4 | 89.6 | 10.6 | 89.4 | .5 | 99.5 |
| Vancouver | 235 | 2.37 | 10.2 | 54.9 | 26.8 | 1.3 | 6.8 | 96.8 | 2.7 | .5 | 10.3 | 89.7 | - | 100.0 | .9 | 99.1 |
| West Vancouver | 1,047 | 2,73 | 7.3 | 44.9 | 26.8 | 3.5 | 17.5 | 90.7 | 5.3 | 4.0 | 12.3 | 87.7 | 38.8 | 61.2 | 1.2 | 98.8 |
| Victoria | 382 | 2.21 | 22.3 | 47.5 | 19.9 | 2.4 | 7.9 | 96.1 | 3.0 | .9 | 13.5 | 86.5 | - | 100.0 | .3 | 99.7 |
| Sidney | 212 | 2.48 | 14.2 | 48.6 | 23.6 | 4.7 | 8.9 | 86.5 | 9.7 | 3.8 | 14.9 | 86.1 | 4.9 | 95.1 | 1.5 | 98.5 |
| Total | 12,517 | 2.49 | 12.8 | 48.2 | 23.4 | 11.1 | 4.5 | 81.6 | 8.0 | 10.4 | 11.8 | 88.2 | 11.4 | 88.6 | 3.7 | 96.3 ' |

Legend: BC - British Columbia ROC - Rest of Canada ROW - Rest of World

2

•.*

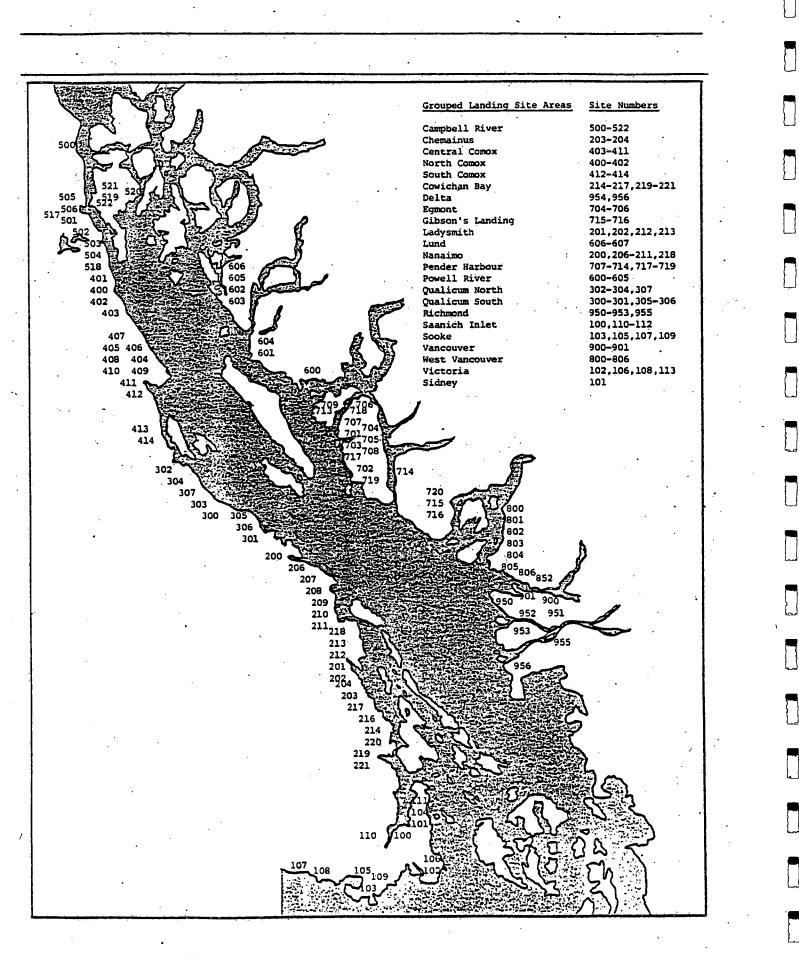
3

.

.

APPENDIX P

FISHING EFFORT SUMMARIES FROM GEORGIA STRAIT CREEL SURVEY RAW DATA



P-1

P-2

TABLE P-1: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1980.

| | No. of Interviews | | Boat Trip Average | | Percent Fishing Effort Directed At | | | | | | |
|------------------|----------------------|--------------|-------------------|------------|------------------------------------|------------|------------|------------|-------------|--|--|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specifi | | |
| Campbell River | 2,229 | 3.34 | 2.14 | 2.62 | 98.1 | .9 | .1 | - | .9 | | |
| Chemainus | 166 | 3.42 | 2.54 | 2.46 | 61.2 | 8.5 · | 1.2 | _ · | 29.1 | | |
| Central Comox | 824 | 2.96 | 2,34 | 2.32 | 96.7 | 1.0 | - | - | 2.3 | | |
| North Comox | 630 | 3.36 | 2.41 | 2.39 | 95.2 | 3.1 | - | - | 1.8 | | |
| South Comox | 65 | 2.87 | 2.71 | 2.37 | 100.0 | - ' | - | - | - | | |
| Cowichan Bay | 224 | 3.41 | 1.86 | 2.41 | 71.7 | 13.0 | .4 | 2.2 | 12.6 | | |
| Delta · | 159 | 5.65 | 2.47 | 2.51 | 92,9 | 4.5 | | .6 | 1.9 | | |
| Egmont | 159 | 3.47 | 2.31 | 2.40 | 79.9 | 18.9 | _ · | | 1.3 | | |
| Gibson's Landing | 139 | - 3.85 | 2.49 | 2,56 | 85.5 | - | .7 | 8.7 | 5.1 | | |
| Ladysmith | 124 | 3.32 | 2.24 | 2.63 | 58,2 | 7.4 | - | _ · | 34:4 | | |
| Lund | 139 | 3,54 | 2.27 | 2.32 | . 95,5 | 2.3 | | .8 | 1.5 | | |
| Nanaimo | 962 | 3.41 | 2.34 | 2.43 | 85.9 | 1.2 | .2 | - | 12.7 | | |
| Pender Harbour | 848 | 4.24 | 2.84 | 2.84 | 96.0 | 1.6 | - | .4 | 2.0 | | |
| Powell River | 790 | 3.66 | 2.29 | 2.62 | 93.8 | 1.6 | .1 | - | 4.5 | | |
| Qualicum North | 430 | 3.49 | 2,21 | 2.20 | · 90.5 | 2.1 | - | ·_ | 7.3 | | |
| Qualicum South | 923 | 3.40 | 2.22 | 2.41 | 96.9 | · .9 | _ . | • | 2.2 | | |
| Richmond | 136 | 5.51 | 2.93 | 2.76 | 95.6 | - | .7 | - | 3.7 | | |
| Saanich Inlet | 647 | 3.75 | 2.24 | 2.41 | 93.5 | 3.3 | . 3 | - | 2.8 | | |
| Sooke | 1,047 | 3.66 | 2.41 | 2.23 | 96.4 | .9 | .6 | · .1 | 2.0 | | |
| Vancouver | 235 | 4.92 | 2.37 | 2.37 | 83.8 | 1.7 | - | - | 14.5 | | |
| West Vancouver | - 1,047 | 4.68 | 2.46 | 2.73 | 83.3 | 1.4 | .4 | . 2 | 14.7 | | |
| Victoria | 382 | 2.88 | 2.26 | 2.21 | 90.6 | 6.4 | - | - | 2.9 | | |
| Sidney | 212 | 3.24 | 2.20 | 2.48 | 87.7 | 6.9 | 1.5 | • | 3.9 | | |
| Total | | 3.65 | 2.34 | 2.49 | 92.0 | 2.3 | . 2 | .2 | 5,3 | | |

| • | No. of Interviews | | Boat Trip Average | ` <u>·····</u> | | Percent Fishing Effort Directed At | | | | | | |
|-----------------|----------------------|--------------|-------------------|----------------|---------------|------------------------------------|-----------|------------|-------------|--|--|--|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specifi | | | |
| Campbell River | 1,834 | 3.45 | 2.13 | 2.64 | 97.4 | .5 | .1 | .4 | 1.6 | | | |
| Chemainus | 107 | 3.33 | 2.26 | 2.52 | 58.0 | 11.2 | .9 | - | 29.9 | | | |
| Central Comox | 630 | 2.77 | 2.33 | 2.25 | 97 . 9 | .5 | _ | .5 | 1.1 | | | |
| lorth Comox | 639 | 3.99 | 2.66 | 2.49 | 95.9 | 2.8 | - | - | 1.3 | | | |
| jouth Comox | 63 | 3.44 | 2.27 | 2.25 | 96.8 | 3.2 | - | - | ± | | | |
| owichan Bay | 260 | 3.83 | 2.05 | 2.48 | 84.2 | 10.0 | .8 | - . | 5.0 | | | |
| Pelta | 285 | 4.27 | 2.19 | 2.59 | 84.3 | 6.0 | .4 | .4 | 8,9,- | | | |
| gmont | 116 | 3.28 | 2.46 | 2.99 | 75.9 | 19.8 | _ | _ | 4.3 | | | |
| ibson's Landing | 65 | 3.47 | 2.94 | 2.65 | 89.0 | 1.6 | _ | - | 9.4 | | | |
| adysmith | 118 | 3.33 | 2.24 | 2.75 | 61.0 | 8.5 | | - | . 30.5 | | | |
| und | 38 | 3.42 | 2.29 | 2.16 | 97.3 | 2.7 | - | _ | - | | | |
| anaimo | 585 | 3.13 | 2.23 | 2.57 | 88.7 | 2.3 | .2 | - | . 8.8 | | | |
| ender Harbour | 771 | 4.20 | 2.78 | 2.81 | 90.4 | 5.8 | .1 | - | 3.7 | | | |
| owell River | 475 | ʻ 3.70 | 2.32 | 2.70 | 93.8 | 3.3 | - | _ | 2.9 | | | |
| ualicum North | 503 | 3.40 | 2.14 | 2.21 | 81.7 | 2.0 | - | _ | 16.3 | | | |
| ualicum South | 584 | 3.29 | 2.25 | 2.49 | 94.4 | . 3 | - | _ | 5.3 | | | |
| lichmond | 136 | 4.71 | 2.26 | 2.53 | 90.3 | 1.5 | - | - | 8.2 | | | |
| aanich Inlet | 587 | 3.60 | 2.30 | 2.57 | 94.8 | 1.9 | - | - | 3.3 | | | |
| ooke | 681 · | 3.91 | 2.35 | 2.32 | 96.2 | .9 | .7 | _ | 2.2 | | | |
| ancouver | 241 | 4.88 | 2.36 | 2.37 | 95.8 | - | - | .8 | 3.4 | | | |
| est Vancouver | 1,031 | 4.61 | 2.44 | · 2.59 | 90.8 | .8 | .2 | .3 | 7.9 | | | |
| ictoria | 309 | 3.20 | 2.10 | 2.19 | 91.6 | 3.9 | - | - | 4.5 | | | |
| idney | 141 | 3.48 | 2.17 | 2.73 | 86.5 | 7.1 | - | - | 6.4 | | | |
| otal | 10,199 | 3.71 | 2.32 | 2,53 | 92.0 | 2.5 | .1 | . · . 2 | 5.2 | | | |

TABLE P-2: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, AUGUST 1980

(marked

₽-3

Ы

TABLE P-3: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, SEPTEMBER 1980

| | No. of | 1 | Boat Trip Average | | | Percent Fis | hing Effort | Directed | At ` |
|-----------------|----------------------------|--------------|-------------------|------------|--------------|-------------|-------------|----------------|--------------|
| rea of Landing | Interviews (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific |
| ampbell River | 559 | 4.14 | 2.18 | 2.62 | 93, 0 | 6.8 | - | · _ | .2 |
| Chemainus | 36 | . 3.31 | 2.11 v | 2.14 | 91.6 | 5.6 | · - | - | 2.8 |
| entral Comox | 186 | 3.32 | 2.37 | 2.34 | 100.0 | - | -, | - | - |
| orth Comox | 146 | 3.71 | 2.51 | 2,20 | 99.3 | .7 | - | - | - |
| outh Comox | | | | | | | , | | |
| owichan Bay | 124 | 3.34 | 2.07 | 2.18 | 87.1 | 4.0 | - | · _ | 8.9 |
| elta | 50 | 5.21 | 2,10 | 2.22 | 91.8 | - · | - · | - | 8.2 |
| gmont · | | | | | | | ٢ | | |
| ibson's Landing | 50 | 3.62 | 1.72 | 2.82 | 93.5 | 4.3 | - | - | 2.2 |
| adysmith | 65 ` | 3.04 | 2.34 | 2.60 | 95.2 | 3.2 | - | - | 1.6 |
| unđ | 7 | 3.36 | 2.71 | 2.71 | 85.7 | 14.3 | - | · - | - . |
| ana imo | 139 | 3.44 | 2.22 | 2.66 | 94.1 | 1.5 | · | - ' | 4.4 |
| ender Harbour | 115 | 4.41 | 3.01 | 2.61 | 93.7 | 5.4 | .9 | - | - |
| owell River | . 78 | 4.31 | 2.38 | 2.71 | 90.2 | 4.2 | - | - | 5.6 |
| ualicum North | 124 | 3.43 | 2.17 | 2.15 | 96.8 | . 3.2 | - | - | - |
| ualicum South | 221 | 3.03 | 2.19 | 2.24 | 91.4 | 1.4 | - | - | 7.2 |
| ichmond | . 98 | 5.20 | 2.22 | 2.48 | 97.9 | - | - | - | 2.1 |
| aanich Inlet | 356 | 3.84 | 2.27 | 2.45 | 95.2 | 1.4 | .6 | - | 2.8 |
| ooke | 289 | 4.43 | 2.49 | 2.07 | 96.5 | 1.4 | .7 | - | 1.4 |
| ancouver | 154 | 5.78 | 2.34 | 2.37 | 97.9 | .7 | | | 1.4 |
| est Vancouver | 322 | 4.64 | 2.77 | 2.36 | 95.6 | .3 | - | .3 | 3.8 |
| ictoria | 164 | 2.85 | 2.05 | 2,20 | 90.0 | 8.1 | - | - | 1.9 |
| idney | 54 | 3.52 | 2,39 | 2.28 | 74.0 | 13.0 | - | 3.7 | 9.3 |
| otal | 3,337 | 3.98 | 2.35 | 2,38 | 94.2 | 3.0 | .2 | .1 | 2.5 |

. .

TABLE P-4: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, OCTOBER 1980

| | No. of Interviews | 1 | Boat Trip Average | | | | Percent Fishing Effort Directed At | | | | | | | |
|-----------------|----------------------|--------------|-------------------|------------|--------|------------|------------------------------------|-------|-------------|--|--|--|--|--|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specifi | | | | | |
| Campbell River | 179 | 4.05 | 2.26 | 2.58 | 95.4 | 4.0 | - | · _ | .6 | | | | | |
| Chemainus | | | | | | | | | | | | | | |
| Central Comox | 46 | 3.78 | 2.26 | 2.09 | 97.8 | 2.2 | - | - | · _ | | | | | |
| lorth Comox | 5 | 3.20 | 2.60 | 1.80 | 100.0 | - | - | · – · | - | | | | | |
| South Comox | | | | | | | | | | | | | | |
| Cowichan Bay | 6 | 3.42 | 2.33 | 2.50 | 100.0 | - | - | - | · | | | | | |
| Delta | | | | | | | | | - | | | | | |
| Egmont | | | | | | | | | | | | | | |
| ibson's Landing | 23 | 4.28 | 2.83 | 2.39 | 95.7 | . 4.3 | - | - | | | | | | |
| adysmith | | | | • | | | | | | | | | | |
| Lund | | | | | | | | | | | | | | |
| Nanaimo | 301 | 3.15 | 2.14 | 2.15 | 94.6 | 4.4 | .3 | - | .7 | | | | | |
| Pender Harbour | 67 | 3.37 | 2,49 | 2.21 | 89.0 | 9.4 | - | | 1.6 | | | | | |
| Powell River | 113 | 3.92 | 2.33 | 2.47 | 99.1 | .9 | - | - | - | | | | | |
| Qualicum North | | | | | | | • | | | | | | | |
| Qualicum South | 94 | 3.01 | 2.31 | 2.14 | 93.4 | <u>-</u> ` | - | - | 6.6 | | | | | |
| Richmond | 21 | 4.29 | 2.10 | 2.00 | 100.0 | - | - | - | ÷ | | | | | |
| Saanich Inlet | 319 | 3.87 | 2.28 | 2.13 | 98.4 | 1.0 | - | - | .6 | | | | | |
| Sooke | 588 | 3.86 | 2.29 | 2.10 | 96.0 | 1.4 | .9 | - | 1.7 | | | | | |
| Vancouver | 28 | 5.18 | 2.79 | 2.14 | 85.7 | - | - , | - | 14.3 | | | | | |
| West Vancouver | 166 | 4.17 | 2.37 | 2.42 | 80.1 | .6 | - | .6 | 18.7 | | | | | |
| Victoria | 132 | 3.14 | 2.06 | 1.94 | 85.0 | 8.7 | - | - | 6.3 | | | | | |
| Sidney | 41 | 3.93 | 2.15 | 2.34 | 92.5 . | 7.5 | - | - | - | | | | | |
| Total | 2,129 | 3.73 | 2.27 | 2.20 | 94.0 | 2.6 | .3 | .0 | 3.1 . | | | | | |

Р-5

5

TABLE P-5: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, NOVEMBER 1980

| | No. of Interviews | | Boat Trip Average | | | Percent Fis | ning Effort | Directed | At |
|-----------------|----------------------|--------------|-------------------|------------|--------|----------------|-------------|------------|--------------|
| area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific |
| Campbell River | 16 | 2.75 | 2.56 | 1.94 | 100.0 | - | _ | _ | - |
| Chemainus | | | | | · . | | | | |
| Central Comox | 38 | 3.04 | 2.18 | 1.97 | 100.0 | - · | - | - | - |
| orth Comox | | | | | | | | | . · · |
| South Comox | | | | | | | | - | |
| Cowichan Bay | 32 | 2.72 | 2.16 | 2.25 | 100.0 | - . | - | - | · _ |
| Delta | | • | | | | | | | |
| gmont | | | | - | | | | | |
| ibson's Landing | | | | | | | | | |
| adysmith | | | | | | | • | | |
| und | | | | | | | | | |
| lana imo | 41 | 3.20 | 1.71 | 1.83 | 95.2 | 2.4 | - | - | 2.4 |
| ender Harbour | 43 | 4.94 | 2.49 | 1.95 | 100.0 | - | - | - | · _ |
| owell River | 12 | 2.96 | 1.83 | 1.92 | 100.0 | - | - | _ | - |
| ualicum North | · . | | | | • • | | | | • |
| ualicum South | 6 | 3.17 | 2.00 | 1.67 | 100.0 | · _ · · · | - | - | - <u>-</u> |
| tichmond | | | • • | | | | | | |
| aanich Inlet | 93 | 3.45 | 2.09 | 2.05 | 96.7 | · · · | - | - | 3.3 |
| ooke | 99 | 3.13 | 2.13 | 2.14 | 93.7 | 2.1 | 2.1 | - | 2.1 |
| ancouver | 44 | 4.03 | 2.11 | 2.07 | 80.5 | _ | 4.9 | _ · | 14.6 |
| lest Vancouver | 57 | 3.89 | 2.12 | 1.93 | 98.2 | - | · _ | - | 1.8 |
| lictoria | .28 | 3.41 | 2.25 | 2.04 | 92.6 | 3.7 | 3.7 | - | - |
| adney | 24 | 2.75 | 2.08 | 2.29 | 87.5 | 12.5 | - | · _ | |
| Total | 533 | 3.44 | 2.13 | 2.04 | 95.1 | 1.4 | 1.0 | - . | 2.5 |

TABLE P-6: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER 1980

| | No. of Interviews | 1 | Boat Trip Average | | | Percent Fis | hing Effort | Directed | At | |
|-----------------|----------------------|--------------|-------------------|------------|--------|-------------|-------------|----------|--------------|--|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific | |
| Campbell River | 16 | 3.09 | 2.81 | 2.75 | 100.0 | - | - | - | - | |
| Chemainus | | | | | | | | | | |
| Central Comox | 11 | 2.91 | 1.82 | 1.82 | 100.0 | - | - | - | - | |
| North Comox | | | | | | | | | | |
| South Comox | | ť | | | | | | | | |
| Cowichan Bay | 8 | 3.00 | 2.00 | 2.63 | 100.0 | - | - | - | - | |
| Delta | | | | | | | | | | |
| Egmont | | | | | | • | | | | |
| ibson's Landing | | | | | | | | | • | |
| adysmith | | | | | | | | | | |
| unđ | | | | | | | | | | |
| anaimo | 51 | 2.92 | 1.63 | 1.73 | 98.0 | · - | 2.0 | | - | |
| ender Harbour | 31 | 3.79 | 2.45 | 2.23 | 100.0 | - | - | - | • - | |
| owell River | 7 | 2.21 | 1,71 | 2.29 | 14.3 | - | - , | - | 85.7 | |
| ualicum North | • • | | | | | | | | | |
| ualicum South | | | | | | | | | | |
| Richmond | | | | | | , | | | | |
| aanich Inlet | 70 | 3.21 | 2.29 | 1.83 | 98.6 | 1.4 | - | - | - | |
| ooke | 116 | 3.22 | 2.02 | 1.92 | 92.1 | .9 | 4.4 | - | 2.6 | |
| ancouver | 13 | 3.65 | 2.00 | 2.08 | 75.0 | - | <u> </u> | - | 25.0 | |
| lest Vancouver | 46 | 4.88 | 2.20 | 1.80 | 100.0 | - | - | - | - | |
| lictoria | 33 | 3.23 | 2.15 | 2.18 | 100.0 | · - | - | - | - | |
| Sidney | 5 | 4.70 | 2.60 | 2.20 | 80.0 | - | - | - | 20.0 | |
| Total | 407 | 3.41 | 2.11 | 1.97 | 94.7 | .5 | 1.5 | | 3.3 | |

. .

Ľ.

.

• •

-

.

TABLE P-7: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY 1981

Σ

T

| | No. of Interviews | | Boat Trip Average | Boat Trip Average | | | | Percent Fishing Effort Directed At | | | | | | | |
|-----------------|----------------------|--------------|-------------------|-------------------|--------|------------|----------------|------------------------------------|--------------|--|--|--|--|--|--|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific | | | | | | |
| Campbell River | 33 | 3.73 | 3,09 | 2.09 | 100.0 | | | - ` | - | | | | | | |
| Chemainus | | | | | | | | | | | | | | | |
| Central Comox | 38 | 4.38 | 2.47 | 1.84 | 100.0 | | - | - | <u>-</u> | | | | | | |
| lorth Comox | | | . · | | | | | | | | | | | | |
| South Comox | | | | | | · · · | | | | | | | | | |
| Cowichan Bay | 61 | 3.63 | 2.23 | 2.21 | 90.2 | 3.3 | 1.6 | - | 4.9 | | | | | | |
| Delta | | | | | | | | | . ~ | | | | | | |
| gmont | | | | | | | | | • • | | | | | | |
| ibson's Landing | | | | | | • | | | | | | | | | |
| adysmith | 33 | 3.11 | 2.06 | 2.21 | 97.0 | - ` | - | - | 3.0 | | | | | | |
| und | | | | | | | | | | | | | | | |
| lanaimo | 95 | 3.21 | 1.96 | 1.98 | 96.8 | 1,1 | - | - | 2.2 | | | | | | |
| Pender Harbour | 38 | 3.36 | 2.61 | 2.34 | 100.0 | - | - | - | | | | | | | |
| Powell River | 9 | 2.11 | 2.22 | 2.33 | 55.6 | - | - | - ' | 44.4 | | | | | | |
| ualicum North | | | | | | | , | | | | | | | | |
| ualicum South | 8 | 2.94 | 2.50 | 2.63 | 100.0 | - | - . | - | - | | | | | | |
| Richmond | • | | | | | | | | | | | | | | |
| Saanich Inlet | 230 | 3.45 | 2.37 | 2.15 | 99.6 | - | . 4 | - | - | | | | | | |
| Sooke | 239 | 3.44 | 2.25 | 2.10 | 95.7 | . 4 | 1.3 | | 2.6 | | | | | | |
| Jancouver | 85 | 4.45 | 2.03 | 2.28 | 88.0 | . — | • 2.7 | - | 9.3 | | | | | | |
| lest Vancouver | 98 . | 3.95 | 2.12 | 2.35 | 96.9 | - | - · | · _ | 3.1 | | | | | | |
| Victoria | 98 | 3.44 | 2.24 | 2.16 | 95.9 | 1.0 | - | - | 3.1 | | | | | | |
| Sidney | 58 | 3.80 | 2.33 | 2.22 | 94.7 | - | 1.8 | - | 3.5 | | | | | | |
| Total | 1,123 | 3.58 | 2.27 | 2.16 | 96.0 | .5 | .7 | - | 2.8 | | | | | | |

TABLE P-8: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEBRUARY 1981

| · | No. of | | | | | | | | _ | |
|------------------|--------------|--------------|-------------------|------------|--------|------------|-------------|----------|--------------|-----|
| · | Interviews | | Boat Trip Average | | | | hing Effort | | | |
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific | |
| Campbell River | 27 | 3.31 | 2.74 | 2.04 | 100.0 | - | - | - | - | |
| Chemainus | | | | | | | | | | |
| Central Comox | 21 | 3.17 | 2.48 | 1.71 | 100.0 | - | - | - | | |
| North Comox | | | | | | | , . | | | |
| South Comox | | | | | • | | | | | |
| Cowichan Bay | 26 | 4.08 | 1.73 | 2.00 | 42.3 | 23.1 | 3.8 | 7.7 | 23.1 | |
| Delta | | | | | | | | | | 'n |
| Egnont | | | | | | | | | | - 9 |
| Gibson's Landing | | | | | • | | | | • | |
| Ladysmith | 26 | 3.19 | 1.96 | 2.35 | 76.0 | 8.0 | - | · | 16.0 | • |
| Lund | | | | | | | | | | |
| Nana Imo | . 87 | 3.39 | 1.88 | 2.02 | 94.2 | 2.3 | 1.2 | - | 2.3 | |
| Pender Harbour | 42 | 3.32 | 2.50 | 2.05 | 92.9 | 4.8 | - | 2.4 | ~ | |
| Powell River | · 4 | 2.13 | 2.00 | 2.25 | 75.0 | - | - | - | 25.0 | |
| Qualicum North | | | | | | | | | | |
| Qualicum South | 10 | 4.10 | 2.20 | 2,50 | 100.0 | - | - | - | - | |
| Richmond | | 、 | | | ÷ | | | | | |
| Saanich Inlet | 198 | 3.65 | 2.26 | 2.27 | 95.4 | .5 | - ' | 2.6 | 1.5 | |
| Sooke | 182 | 3,53 | 2.26 | 2,18 | 95.6 | 1.7 | .6 | - | 2.2 | |
| ancouver | 68 | 4.91 | 2.10 | 2.19 | 87.7 | - | 1.5 | <u>-</u> | 10.8 | |
| West Vancouver | 83 | 4.82 | 2.11 | 1.94 | 95.2 | 1.2 | - | - | 3.6 | |
| Victoria | 120 | 3.31 | 2.08 | 1,85 | 96.6 | 1.7 | | - | 1.7 | |
| Sidney | 51 | 3.35 | 1.96 | 2.24 | 80.4 | 2.0 | 5.9 | 2.0 | 9.8 | |
| [ota] | 945 | 3.70 | 2.17 | 2.11 | 92.2 | 2.1 | .8 | 1.0 | 4.0 | |

.

TABLE P-9: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCH 1981

| | No. of Interviews | | Boat Trip Average | • | | Percent Fish | hing Effort | Directed | At |
|------------------|----------------------|--------------|-------------------|------------|--------|--------------|-------------|------------|--------------|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific |
| Campbell River | 22 | 3.82 | 2.77 | 2.68 | 95.2 | 4.8 | - | _ | · |
| Chemainus | | | | | | | | | |
| Central Comox | 13 | 2.58 | 2.38 | 2.31 | 92.3 | - | 7.7 | - | - |
| North Comox | | | | | | | | | |
| South Comox | | | • | | | | | | |
| Cowichan Bay | 19 | 3.25 | 2.28 | 2.06 | 94.4 | 5.6 | _ . | ` - | - |
| Delta | | | · . | | | | | | |
| Egmont | | | | | | | | ! | |
| Gibson's Landing | | | | | | | | | |
| Ladysmith | 5 | 4.40 | 2.00 | 2.20 | 60.0 | 20.0 | 2 | - | 20.0 |
| Lund | | | | | • | | | | |
| Nanaimo | 85 | 3.58 | 2.12 | 2.09 | 92.8 | - | 1.2 | - | 6.0 |
| Pender Harbour | 46 | 2.90 | 2.83 | 2.37 | 97.7 | - | - | - | 2.3 |
| Powell River | 3 | 2.50 | 2.67 | 2.67 | 66.7 | - · | - | - | 33.3 |
| Qualicum North | | | | | | | | | |
| Qualicum South | 15 | 3.27 | 2.20 | 2.27 | 100.0 | | - | - | · _ |
| Richmond | | | | | | | | • | |
| Saanich Inlet | 183 | 3.50 | 2.13 | 2.15 | 88.0 | 2.7 | - | .5 | 8.8 |
| Sooke | 164 | 3.77 | 2.19 | 2.34 | 90.8 | 4.3 | - | .6 、 | 4.3 |
| Vancouver | 58 | 4.01 | 2.33 | 2.09 | 94.6 | 1.8 | - | - | 3.6 |
| West Vancouver | 107 | 4.55 | 2.14 | 1.97 | 88.7 | .9 | - | | 10.4 |
| Victoria | 61 | 3.15 | 2.07 | 2.16 | 86.7 | 8.3 | - | - | 5.0 |
| Sidney | 25 | 3.88 | 2.00 | 2.32 | 64.0 | 4.0 | 4.0 | 4.0 | 24.0 |
| Total | 805 | 3.73 | 2.21 | 2.19 | 89.6 | 2.9 | .4 | .4 | 6.7 |

• -

| | No. of | | Boat Trip Average | | | Percent Fis | hing Effort | Directed | At | |
|------------------|----------------------------|--------------|-------------------|------------|--------|-------------|-------------|----------|--------------|-----|
| Area of Landing | Interviews (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific | |
| Campbell River | 46 . | 4.54 | 2.43 | 2.80 | 76.1 | 10.9 | ` | 8.7 | 4.3 | |
| Chemainus | | | | | | | | | • | |
| Central Comox | 52 | 3.53 | 2.62 | 2.37 | 100.0 | - | _ | _ | _ | |
| North Comox | | | | | | | | _ | - | |
| South Comox | | | | | • | | | | | |
| Cowichan Bay | 12 | 3.12 | 2.00 | 2.42 | 36.4 | 36.4 | 9.1 | 9.1 | 9.1 | |
| Delta | | | • | | | | | 5.1 | 2.1 | hel |
| Egmont | | | | | | | | | | P-1 |
| Gibson's Landing | | | | | | | , | | | 11 |
| Ladysmith | . 5 | 4.90 | 2.40 | 2.40 | 75.0 | 25.0 | _ | | | |
| Lund | | | | | | 23.0 | | - | - | |
| Nanaimo | 71 . | 2.96 | 2.04 | 2.38 | 76.1 | 4.2 | _ | - | 19.7 | |
| Pender Harbour | 60 | 2.56 | 2.23 | 2.45 | 89.7 | 6.9 | 1.7 | - | 19.7 | |
| Powell River | . 8 | 2.25 | 2.63 | 2.50 | 37.5 | - | - | _ | 62.5 | |
| Qualicum North | | l | | | 5115 | | - | - | | |
| Qualicum South | 20 | 3.00 | 2.10 | 2.35 | 70.0 | - | _ | _ · | 30.0 | |
| Richmond | | · | 1 | | | | | _ | 30.0 | |
| Saanich Inlet | 95 | 3.78 | 2.17 | 2.19 | 84.0 | 6.4 | _ | _ | 9.6 | |
| Sooke | 242 | 3.60 | 2.04 | 2.13 | 69.7 | 11.2 | . 4 | - | 18.7 | |
| Vancouver | 29 . | 5.50 | 2.17 | 2.03 | 89.7 | 6.9 | - | - | 3.4 | |
| West Vancouver | 65 | 4.94 | 2.20 | 2.32 | 98.4 | - | - | | | |
| Victoria | 11 | 3.23 | 2.27 | 2.36 | 81.8 | | - 9.1 | - 9.1 | 1.6 | |
| Sidney | 17 | 3.50 | 2.41 | 2.53 | 41.2 | 35.3 | 5.9 | 9.I - | 17.6 | |
| Total | 722 | | | | | | | _ | 11.0 | |
| Iotar | 733 | 3.69 | 2.18 | 2.29 | 78.4 | 8.0 | .7 | .8 | 12.1 | |

TABLE P-10: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL 1981

.

.

.

1

TABLE P-11: FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY 1981

| | | | | •• | | | | | |
|------------------|----------------------|--------------|-------------------|------------|--------|--------------|-------------|----------|--------------|
| | No. of Interviews | 1 | Boat Trip Average | | | Percent Fish | hing Effort | Directed | At |
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specific |
| Campbell River | 394 | 3.61 | 1.96 | 2.38 | 86.8 | 2,8 | .3 | .5 | 9.7 |
| Chemainus | | | | | | | | | |
| Central Comox | 293 | 3.42 | 2.30 | 2.31 | 94.2 | 5.1 | .3 | · | .3 |
| North Comox | 196 | 2.84 | 2.11 | 2.00 | 94.8 | - | .5 | - | 4,6 |
| South Comox | | | | | | - | | | |
| Cowichan Bay | 31 | 4.40 | 2.26 | 2.52 | 61.3 | 19.4 | 3.2 | - | 16.1 |
| Delta | | | | | | | | | |
| Egmont | | | | | | | | | |
| Gibson's Landing | 28 | 4.18 | 2.46 | 2.18 | 76.9 | - | - | 3.8 | 19.2 |
| Ladysmith | 2 | 1.75 | 2.00 | 2.50 | 50.0 | 50.0 | - | - | _ |
| Lund | 12 | 4.04 | 2.50 | 2.08 | 66.7 | - | 8.3 | - | 25.0 |
| Nanaimo | 122 | 2.81 | 2.02 | 2.47 | 76:7 | 7.5 | 2.5 | - | 13.3 |
| Pender Harbour | 62 | 2.90 | 2.55 | 2.34 | 90,2 | 4.9 | - | - | 4.9 |
| Powell River | 93 | 2.92 | 1.99 | 2.42 | 52.7 | - | 3.3 | 25.3 | 18.7 |
| Qualicum North | 63 | 3.38 | 2.03 | 1.86 | 96.8 | 3.2 | - | - | - |
| Qualicum South | 549 | 3,08 | 2.11 | 2.22 | 98.7 | 1.1 | - | - | .2 |
| Richmond | | | | | | • | | | |
| Saanich Inlet | 320 | 4.19 | 2.08 | 2.29 | 81,4 | 3.5 | .3 | - | 14.8 |
| Sooke | 505 | 3.89 | 2.18 | 2.12 | 89.9 | 4.2 | - | .4 | 5.6 |
| Vancouver | 107 | 5.18 | 2.19 | 2.28 | 94.4 | .9 | - | .9 | 3.7 |
| West Vancouver | 325 | 4.72 | 2.56 | 2.63 | 88.9 | 2.5 | - | _ | 8.6 |
| Victoria | 149 | 3.22 | 2,11 | 1.97 | 76.4 | 8.8 | - | _ | 14,9 |
| Sidney | • 136 | 3.94 | 1.96 | 2.34 | 73.1 | 4,5 | .7 | • .7 | 20.9 |
| Total | 3,387 | 3.66 | 2.16 | 2.27 | 87.8 | 3.4 | .4 | .9 | 7.6 |

P-12

| | No. of Interviews | | Boat Trip Average | . <u></u> | · | Percent Fis | hing Effort | Directed | At |
|------------------|----------------------|--------------|-------------------|------------|--------|-------------|-------------|----------|-------------|
| Area of Landing | (Boat Trips) | Hours Fished | Lines Employed | Party Size | Salmon | Groundfish | Shellfish | Other | Non-Specifi |
| Campbell River | 572 | 3.58 | 1.90 | 2.53 | 94.0 | .9 | - | .5 | 4.6 |
| Chemainus | 74 | 3.57 | 1.90 | 2.51 | 63.0 | 12.3 | | | 24.7 |
| Central Comox | 406 | 3.10 | 2.22 | 2.15 | 98.5 | 1.0 | - | - | .5 |
| North Comox | 601 | 3.17 | 2.23 | 2.27 | 96.4 | 2.2 | - | - | 1.4 |
| South Comox | | | | | | | | | |
| Cowichan Bay | 66 / | 4.89 | 2.05 | 2.42 | 79.3 | 11.1 | 1.6 | 3.2 | 4.8 |
| Delta | 18 | 3.89 | 2.28 | 2.78 | 94.4 | - | - | - | 5.6 |
| Egmont | | | | | | | | | |
| Gibson's Landing | 81 | 4.99 | 2.55 | 2.41 | 58.3 | 1.4 | - | - | 40.3 |
| Ladysmith | 35 | 3.73 | 1.97 | 2.57 | 82.4 | 2.9 | - | · _ | 14.7 |
| Lund | 34 | 3.29 | 1.97 | 2,09 | 84.4 | - | - | - | 15.6 |
| Nanaimo | 213 | 3.36 | 2.10 | 2.47 | 81.3 | 2.4 | .5 | - | 15.8 |
| Pender Harbour | 91 | 3.26 | 2.30 | 2.51 | 81.2 | - | - | - | 18.8 |
| Powell River | 222 | 3.57 | 2.09 | 2.48 | 90.1 | <u>-</u> ' | - | 2.8 | 7.1 |
| Qualicum North | 158 | 3.33 | 1.96 | 1.97 | 99.4 | - | - | - | .6 |
| Qualicum South | 343 | 3.21 | 2.11 | 2.13 | 98.2 | 1.5 | .3 | - | - |
| Richmond | 64 | 4.87 | 2.17 | 2.70 | 98.4 | - | - | · | 1.6 |
| Saanich Inlet | 262 | 3.87 | 2.07 | 2.20 | 85.0 | 2.7 | - | - | 12.3 |
| Sooke | 818 | 4.34 | 2.18 | 2.12 | 92.4 | 1.8 | · _ | - | 5.8 |
| Vancouver | 73 | 5.66 | 2,21 | 2.40 | 90.1 | 1.4 | - | - | 8.5 |
| West Vancouver | 392 | 5.27 | 2.27 [.] | 2.50 | 89.8 | 3.1 | - | . 3 | 6.8 |
| Victoria | 130 | 3.35 | 2,00 | 2,10 | 71.3 | 13.2 | - | - | 15.5 |
| Sidney | 67 | 3.74 | 2.22 | 2.54 | 67.1 | 7.5 | 1.5 | - | 23.9 |
| Total | 4,720 | 3.81 | 2.13 | 2.30 | 90.6 | 2.3 | .1 | .3 | 6.7 |

TABLE P-12:FISHING EFFORT SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JUNE 1981

ł

`

ł

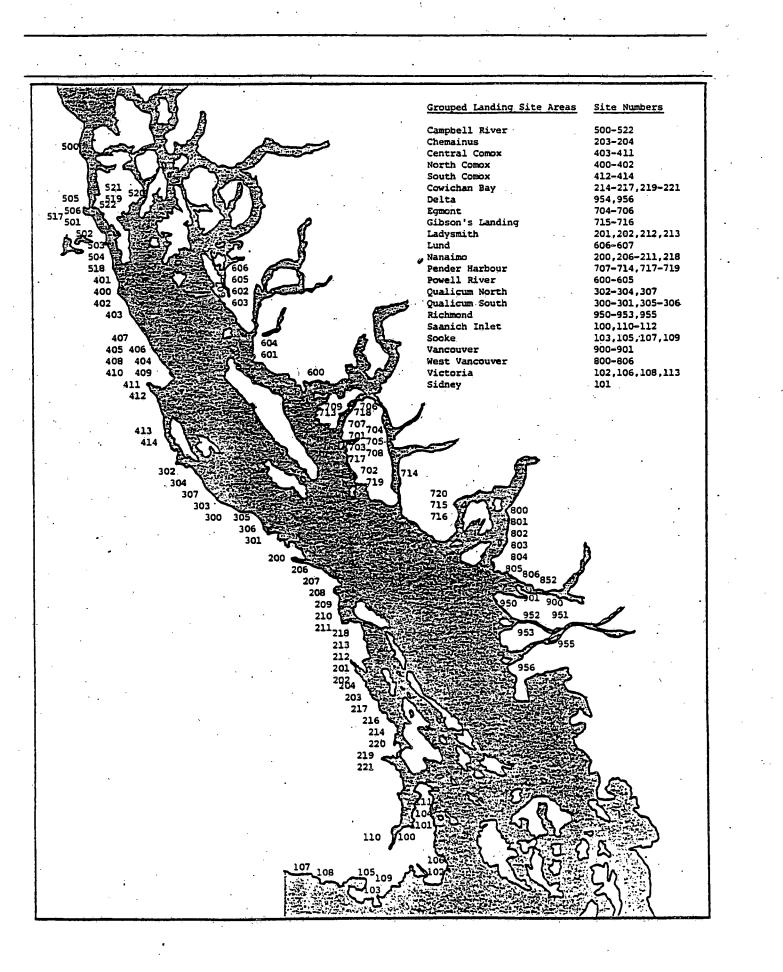
1

4

P-13

APPENDIX Q

FISHING METHOD AND TACKLE SUMMARIES FROM GEORGIA STRAIT CREEL SURVEY RAW DATA



Q-1

TABLE Q-1: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1980.

.

| • | | | | | · | • | | Pė | rcent Dist | ribution | | | | | |
|------------------|----------------------|------|------|-----|----------|------|-------------|-----------|------------|-------------|----------|--------------|--------------|-----------|----------------|
| | No. of Interviews | | | | | • | Fishi | ng Method | | | | | Fishi | ng Tackle | 2 |
| Area of Landing | (Boat Trips) | TR | MO | CA | PL | DR | JI | OTH | TR/MO | TR/DR or PL | OTH COMB | BAIT | LURE | OTH | COMB |
| Campbell River | 2,229 | 57.7 | 21.6 | 2.7 | .1 | .2 | .4 | .8 | 8.8 | 4.1 | 3.6 | 53.9 | 24.3 | 1.3 | 20.5 |
| Chemainus | 166 | 27.9 | 9.7 | - | | 1.2 | | 1.2 | 26.1 | 20.6 | 13.3 | 29.7 | 24.8 | | 45.5 |
| Central Comox | 824 | 40.3 | 12.4 | .1 | 2.9 | 2.6 | _ | .1 | 7.1 | 30.0 | 4.5 | 17.9 | 40.6 | .1 | 41.4 |
| North Comox | 630 | 51.2 | 3.5 | 1.0 | 4.2 | 2.7 | .2 | _ | 2.4 | 32.4 | 2.4 | 12.3 | 51.9 | _ | 35.8 |
| South Comox | 65 | 43.1 | 6.2 | ´ | 10.8 | | | | 7.7 | 29.2 | 3.0 | 15.4 | 27.7 | - | 56.9 |
| Cowichan Bay | 224 | 30.2 | 56.8 | 1.4 | _ | | | 1.8 | 8.6 | .5 | .7 | 49.1 | 32.4 | 2.7 | 15.8 |
| Delta | 159 | 62.9 | 17.6 | | | | | 1.9 | 11.3 | 4.4 | 1.9 | 40.9 | 34.0 | .6 | 24.5 |
| Egmont . | 159 | 20.1 | 67.3 | | _ | _ | _ | .6 | 7.5 | 4.4 | .1 | 81.8 | 10.1 | 1.9 | |
| Gibson's Landing | 139 | 35.0 | 54.7 | · | | - | | * | 8.0 | 1.5 | .8 | 68.6 | 13.1 | .7 | 6.2 17 6 1 |
| Ladysmith | 124 | 44.7 | 14.6 | | _ | 4.9 | | 8 | 10.6 | 21.9 | 2.5 | 25.4 | 44.3 | . 8 | 17.6 N 29.5 |
| Lund | 139 | 64.0 | .7 | 2.9 | _ | _ | 1.4 | | 5.0 | 20.9 | 5.1 | 10.2 | 75.2 | | 14.6 |
| Nana imo | 962 | 64.2 | 3.0 | 5,3 | .6 | 3.4 | .3 | 1.3 | 2.9 | 14.7 | 4.3 | 18.1 | 56.2 | 1.1 | 24.6 |
| Pender Harbour | 948 | 32.2 | 57.4 | | ÷ | .5 | 2 | | 7.8 | 1.3 | .6 | 69.6 | 18.4 | .6 | 11.4 |
| Powell River | 790 | 68.0 | 2.7 | 2.6 | | .4 | .5 | .8 | 2.9 | 14.8 | 7.3 | 3.9 | 87.6 | | 7.8 |
| Qualicum North | 430 | 74.2 | 4.2 | | - | .5 | 1.2 | | 6.1 | 10.5 | 3.3 | 11.3 | 76.1 | | 12.6 |
| Qualicum South | 923 | 80.6 | `1.2 | 216 | .2 | .9 | .8 | | 1.9 | 10.4 | 1.4 | 8.0 | 82.1 | .1 | 9.8 |
| Richmond | 136 | 67.7 | 14.3 | | | 1.5 | | .8 | 7.5 | 6.1 | 2.1 | 43.2 | 20.5 | 2.3 | 34.0 |
| Saanich Inlet | 647 | 38.8 | 4.8 | 3.3 | 6.2 | 3.7 | 2.0 | .6 | 3.6 | 31.6 | 5.4 | 32.1 | 25.2 | .6 | 42.1 |
| Sooke | 1,047 | 60.4 | 3.4 | 1.4 | .3 | 1.3 | 1.6 | · .8 | 2.3 | 23.6 | 4.9 | 48.1 | 18.0 | .1 | 33.8 |
| Vancouver | 235 | 60.7 | 21.8 | .9 | | 3.8 | | · | 7.7 | 5.1 | | 51.9 | 22.7 | · | 25.4 |
| West Vancouver | 1,047 | 50.0 | 30.0 | .5 | .3 | .3 | 2 | 1.5 | 12.5 | 3.1 | 1.6 | 67.6 | 13.3 | 1.1 | |
| Victoria | 382 | 30.6 | 20.9 | 1.6 | | .8 | 7.3 | .3 | 7.3 | 21.0 | 1.0 | 14.7 | 57.6 | | 18.0 27.7 |
| Sidney | 212 | 24.1 | 15.1 | 2.4 | | 3.8 | 14.2 | 1.4 | 3.8 | 22.1 | 13.1 | 24.1 | 57.6 47.6 | • | 27.7 |
| Total | 12,517 | 53.6 | 16.9 | 1.8 | .9 | °1.3 | 1.0 | .7 | 6.4 | 13.7 | 3.7 | 24.1 36.4 | 39.4 | .7 | 28.3 |

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

Percent Distribution No. of . Fishing Method Fishing Tackle Interviews TR/MO TR/DR or PL Area of Landing (Boat Trips) TR MO CA PL DR JI' отн OTH COMB BAIT LURE OTH COMB Campbell River 1,834 51.9 26.3 1.6 .2 5.4 8.8 1.9 3.9 _ 52.6 29.7 1.3 ____ 16.4 Chemainus 107 10.3 1.9 .9 .9 16.8 13.0 56.2 24.8 24.8 -----_ -. 1.0 49.4 Central Comox 630 49.5 7.5 4.1 2.5 .2 10.4 2.4 14.2 ___ 9.2 25.2 46.8 ----28.0 North Comox 639 68.4 10.2 _ .3 .2 6.3 3.9 5.5 5.2 19.1 62,9 18.0 _ _ South Comox <u>`</u> 63 57.1 7.9 1.6 11.2 3.2 15.9 3.1 27.0 57.1 -15.9 ----____ Cowichan Bay 260 33.5 42.7 ____ _ ----4.2 .8 16.2 .4 2.2 45.8 31.5 .4 22.3 Delta .4 285 71.9 18.9 1.1 .7 .4 5.3 .9 27.6 38.7 ____ .4 .4 33.3 . _____ 77.6 Egmont 116 15.5 _ 2.6 3.4 .9 87.9 8.6 3.5 ____ ----___ _ Gibson's Landing 65 42.2 53.1 ----4.7 ____ 61.5 24.6 13.9 . ب ------_ Ladysmith 37.6 L 118 59.3 13.6 1.7 .8 16.1 6.8 1.7 24.8 37.6 ____ _ -Lund 38 34.2 ----___ 2.6 2.6 ----5.3 44.7 10.6 2.6 65.8 31.6 ___ _ Nanaimo 585 7.6 48.4 6.4 .3 2.6 1.5 2.1 2.2 19.0 9.9 24.8 45.6 29.6 ----771 Pender Harbour .7 25.7 64.9 .1 .3 7.3 _ .4 ___ .6 80.8 11.8 .4 7.0 Powell River 475 17.0 50.2 2.7 6.5 2.5 7.8 ----___ 3.0 18.1 75.8 ____ 16.4 Qualicum North 503 59.2 4.2 .8 11.1 7.4 11.3 .8 .6 4.6 19.0 62.1 _ 18.9 ____ Qualicum South 584 69.5 2.9 2.7 . 2 .5 1.0 5.0 12.4 5.8 13.2 70.5 ____ 16.3 Richmond 136 .7 60.4 14.2 ------_--14.2 8.2 2.3 34.1 32.6 ·____ 33.3 Saanich Inlet 587 45.1 1.7 6.2 1.5 1.2 .9 2.2 3.3 28.9 9.0 26.5 36.5 .9 36.1 Sooke 681 58.7 3.6 3.4 .7 1.0 .7 2.8 (1.2 20.6 7.3 35.2 23.6 _ 41,2 Vancouver 241 58.4 23.1 .4 .8 8.0 20.6 ----___ ____ 6.7 2.6 42.6 _ 36.8 West Vancouver 1,031 45.4 33.9 .8 .5 -_ .1 14.9 2.0 2.4 64.6 15.0 .1 20.3 309 Victoria 26.9 .3 17.9 11.0 3.2 22.0 18.7 --------14.2 64.4 -----21.4 141 33.6 7.9 Sidney 2.9 2.1 30.0 3.6 7.1 12.8 11.4 68.6 -20.0 Total 10,199 6.9 49.8 19.6 2.2 . 5 4.2 9.3 6.8 38.3 . 4 . 3 38.8 4 22.5 TR - trolling Legend: JI - jigging MO - mooching CA - casting PL planing DR - downrigger OTH - other single OTH COMB - other combination COMB - combination

TABLE Q-2: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, AUGUST 1980.

TABLE Q-3: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, SEPTEMBER 1980.

| • | No. of | | | | | | Fishing | Method | • | , | | | Fishi | ng Tackle | e |
|------------------|----------------------------|------|------|------|----------|----------|---------|---------|-------|-------------|----------|------|--------------|-----------|-------------|
| Area of Landing | Interviews (Boat Trips) | TR | MO | CA | PL | DR | JI | отн | TR/MO | TR/DR or PL | OTH COMB | BAIŢ | LURE | отң | СОМВ |
| Campbell River | 559 | 53.7 | 24.3 | 5.8 | 2.7 | - | 2.3 | _ | 6.5 | .2 | 4.5 | 60.4 | 26,8 | ,9 | 11.9 |
| Chemainus | 36 | 69.4 | _ | _ | - | : | 5.6 | - | 16.7 | 2,8 | 5.5 | 19.4 | 30.6 | - | 50.0 |
| Central Comox | 186 | 53.5 | 3.8 | 20.0 | - | 1.1 | 10.8 | _ | .5 | 2.2 | 8.1 | 18.5 | 73.4 | _ | 8.1 |
| North Comox | 146 | 73.8 | 1.4 | 8.3 | - | | .7 | - | - | 7.6 | 8.2 | 6.2 | 88.3 | - | 5.5 |
| South Comox | | | | | | | • * | • | | | 0.2 | 0,2 | 20.3 | - | 5.2 |
| Cowichan Bay | 124 | 30,9 | 26.8 | 1.6 | _ | 1.6 | 1.6 | 1.6 | 13.8 | 11,3 | 10.8 | 27.9 | 41.0 | .8 | 30.3 |
| Delta | 50 | 79.6 | 8.2 | - | - | 4.1 | - | 1.0 | 6.1 | 2.0 | - | 34.0 | 34.0 | - | 32.0 |
| Egmont | | | •••• | | | | | | 0.1 | 4.0 | . – | 34.0 | 34.0 | - | 32.0 |
| Gibson's Landing | 50 | 24.0 | 60.0 | - | _ | 12.0 | _ | - | 4.0 | - | · _ | 59.4 | 37.5 | - | - 1 |
| Ladysmith | .65 | 76.9 | 3.1 | · . | _ | _ | _ | 1.5 | 12.3 | 4.6 | 1.6 | 20.6 | 36.5 | - | 3.1 42.9 |
| Lund | 7 | 28.6 | 14.3 | - | - | - | _ | - | - | 42.9 | 14.2 | 33.3 | 56.5 66.7 | - | 42.9 |
| Nanaimo | 139 | 47.1 | 2.2 | 9.4 | .7 | 2.9 | 5.1 | _ | 4.3 | 12.3 | 14.2 | 16.3 | 51.1 | - - | 32.6 |
| Pender Harbour | 115 | 16.5 | 73.9 | - | _ | 1.7 | - | .9 | 5.2 | .9 | .9 | 77.1 | 21.0 | - | . 1.9 |
| Powell River | 78 | 46.2 | 1.3 | 10.3 | _ | <u> </u> | 2.6 | - | 1.3 | 21.8 | .5 | 5.2 | 77.9 | - | 1.9 |
| Qualicum North | 124 | 73.4 | 1.6 | 1.6 | 4.0 | - | 3.2 | .8 | 4.8 | 4.0 | . 6.6 | 16.3 | 62.6 | - | 21.1 |
| Qualicum South | 221 | 62.9 | 2.7 | 2.7 | .5 | - | 2.7 | 3.2 | 4.1 | 15.0 | 6.2 | 15.5 | 58.9 | - | 25.6 |
| Richmond | 98 | 78.6 | 10.2 | - | - - | - | 1.0 | - | 6.1 | 2.0 | 2.1 | 36.7 | 42.9 | 1.0 | 19.4 |
| Saanich Inlet | 356 | 38.2 | 8.2 | 2.8 | 4.0 | .6 | 5.7 | 4.5 | 4.2 | 17.2 | 14.6 | 15.4 | 43.8 | 6 | 40.2 |
| Sooke | 289 | 40.5 | 1.7 | 3.1 | .3 | - | 3.1 | .7 | 1.4 | 37.0 | 12.2 | 17.8 | 22.4 | .3 | 59.5 |
| Vancouver | 154 | 52.0 | 20.0 | _ | <u> </u> | - | - | - | 9.3 | 13.3 | 5.4 | 52.9 | 15.4 | - | 31.7 |
| West Vancouver | 322 | 35.4 | 33.1 | 1.0 | - | - | 6 | - | 20.4 | 2.2 | 7.3 | 58.1 | 18.4 | - | 23.5 |
| Victoria | 164 | 36.8 | 8.0 | 1.2 | - | _ | 22.1 | - | 1.8 | 14.8 | 15.3 | 14.9 | 58.4 | - | 26.7 |
| Sidney | 54 | 35.2 | 14.8 | 3.7 | - | - | 18.5 | 3.7 | 1.9 | 14.8 | 7.4 | 22.2 | 46.3 | 1.9 | 29.6 |
| Total | 3,337 | 48.8 | 15.4 | 4.2 | 1.1 | .1 | 4.1 | 1.0 | 6.3 | 9.8 | 9.2 | 32.6 | 41.3 | .3 | 25.8 |

.

1

,

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

Percent Distribution No. of Fishing Method Fishing Tackle Interviews тR MO CA PL DR JI отн TR/MO TR/DR or PL отн сомв BAIT LURE OTH Area of Landing (Boat Trips) COMB **Campbell River** 7.8 52.0 2.8 .6 9.5 1.1 2.4 59.2 32.4 .6 179 27.9 3.4 _ -Chemainus Central Comox 37.0 4.3 2.2 19.5 8.7 84.8 7.5 37.0 46 -North Comox 5 80.0 -20.0 100.0 _ --South Comox Cowichan Bay 16.6 100.0 6 50.0 16.7 16.7 _ Delta Eqmont Gibson's Landing 100.0 23 30.4 69.6 Ladysmith Lund 27.7 Nanaimo 21.6 50.0 .7 301 58.5 .7 3.7 3.7 16.4 1.0 4.3 -4.0 -Pender Harbour 1.6 76.6 17.2 6.2 16.7 1.5 3.0 --67 72.7 1.5 1.5 1.5 -**Powell River** 20.3 10.6 76.1 13.3 8.0 .9 .9 .9 .9 33.6 -113 31.0 3.5 1 Qualicum North ٠. . Qualicum South 5.4 46.2 48.4 6.4 94 58.5 1.1 1.1 2.1 10.6 20.2 -Richmond 4.7 23.8 33.3 42.9 9.5 21 76.2 --4.8 --4.8 -, Saanich Inlet 14.5 11.9 54.2 -33.9 7.3 14.2 319 45.1 5.0 4.1 4.4 2.2 _ 3.2 Sooke 6.6 9.5 .9 3.7 20.2 7.3 46.8 46.8 .5 5.9 588 44.8 4.1 -2.9 Vancouver 71.4 3.6 3.6 -32.1 32.1 35.8 28 21.4 -_ -_ -61.0 West Vancouver 32.1 38.4 7.5 19.5 _ 2.5 19.5 19.5 -166 _ -_ Victoria 15.3 14.7 58.9 . 8 25.6 132 37.1 6.8 4.5 .8 3.8 17.4 _ 4.5 9.8 2.5 24,4 Sidney 41 57.5 10.0 ---12.5 5.0 2.5 10.0 19.5 56.1 -------26.5 Total 2,129 45.6 12.2 4.3 1.0 6.4 1.0 5.4 13.3 9.2 26.0 47.2 . 3 1.6

ဂု

ĊЛ

,

,

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

TABLE Q-4: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, OCTOBER 1980

TABLE Q-5 FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, NOVEMBER 1980

.

2

· ,

| | | | | | | | | Pe | rcent Dist | ribution | • | | | | - |
|------------------|----------------------|------|--------|------|------|------|--------|------------|------------|---------------------------------------|--------------|--------|-------|------------|------|
| | No. of Interviews | , | | | | | Fishin | g Method | · · · · · | · · · · · · · · · · · · · · · · · · · | | | Fishi | ng Tackle | 3 |
| Area of Landing | (Boat Trips) | TR | MO | CA | PL | DR | JĮ | OTH | TR/MO | TR/DR or PL | OTH COMB | BAIT | LURE | отн | Сомв |
| Campbell River | 16 | 37.5 | 12.5 | 18.8 | - | - | - | - | 12.5 | 12.6 | 6.1 | 12.5 | 75.0 | - | 12.5 |
| Chema inus | | | | | | · · | | | | | | | | | |
| Central Comox | 38 | 10.5 | 7.9 | 44.7 | - | - | - | - | 2.6 | • - | 34.3 | 15.8 | 55.3 | - | 28.9 |
| North Comox | | | | | • | | | | | | | • . | | | |
| South Comox | | | | | | | | | | • | | | | | |
| Cowichan Bay | 32 | 16.1 | 3.2 | 61.3 | - | - | 3.2 | 6.5 | - | | 9.7 | 12.9 | 80.6 | - | 6.5 |
| Delta | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | | | × |
| Ladysmith | | | | | | | | | | | | | • | | ĸ |
| Lund | | | | | | ! | 1 | | | | | | | | - |
| Nanaimo | -41 | 17.1 | 2.4 | 2.4 | -, | 2.4 | 2.4 | - | , - | 68.3 | 5.0 | 19.5 | 73.2 | - | 7.3 |
| Pender Harbour | . 43 | 16.7 | 78.6 | - | - | - | | - · | 2.4 | 2,3 | - | 81.0 | 14.3 | - | 4.7 |
| Powell River | 12 | 16.7 | | - | - | - | - | - | - | 83.3 | - | - | .83.3 | - | 16.7 |
| Qualicum North | | | | | | | | | | | | | . · | | |
| Qualicum South | 6 | - | - | - | - | - | - | - | _ | 66.7 | ^33.3 | - | 16.7 | - ' | 83.3 |
| Richmond | | | | | | | | | | : | | 4- | | | |
| Saanich Inlet | •93 | 33.3 | - | 1.1 | 17.2 | 3.2 | 8.6 | 2.2 | - | 28.0 | 6.4 | 7.5 | 54.8 | 2.2 | 35.5 |
| Sooke | 99 | 33.3 | 1.0 | 1.0 | 1.0 | 13.1 | 5.1 | 3.0 | - | 39.4 | 3.1 | . 12.1 | 58.6 | 2.0 | 27.3 |
| Vancouver | 44 | 31.8 | 29.5 | - | - | - | 11.4 | 4.5 | 9.1 | - | 13.7 | 59.1 | 38.6 | - | 2.3 |
| West Vancouver | 57 | 28.1 | - | - | ~ | - | - | . – | 1.8 | • • | 70.1 | 94.7 | 3.5 | - | 1.8 |
| Victoria | 28 | 35.7 | - | - | - | 3.6 | 7.1 | 3.6 | - | 32.1 | 17.9 | 14.3 | 46.4 | 3.6 | 35.7 |
| Sidney | 24 | 12.5 | 16.7 · | - | - | 16.7 | 12.5 | 4.2 | - | 33.3 | 4.1 | 8.3 | 62.5 | 4.2 | 25.0 |
| Total | 533 | 26.0 | 18.6 | 7.9 | 3.2 | 4.1 | 4.7 | 2.1 | 1.7 | 23.9 | 7.8 | 29,9 | 49.2 | 1.1 | 19.8 |

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

Percent Distribution No. of Fishing Method Fishing Tackle Interviews . отн TR/MO TR/DR or PL OTH COMB Area of Landing (Boat Trips) TR МО CA PL DR JI BAIT LURE OTH COMB Campbell River 16 81.3 · -6.3 12.4 81.3 18.7 -----Chemainus Central Comox 11 -36.4 45.5 9.1 9.0 36.4 45.5 18.1 North Comox South Comox Cowichan Bay 8 75.0 25.0 100.0 -Delta Egmont Gibson's Landing Q-7 Ladysmith Lund Nanaimo 51 26.0 -4.0 4.0 60.0 6.0 8.0 86.0 6.0 Pender Harbour 31 + 100,0 -100.0 -~ **Powell River** . 7 57.1 14.3 -28.6 71.4 _ 28.6 **Oualicum North** Qualicum South Richmond Saanich Inlet 70 20.0 14.3 -4.3 5.7 45.7 10.0 7.1 54.3 38.6 --Sooke 38.8 116 .9 1.7 -13.8 .9 6,0 35.3 30.3 2.6 13.4 52.7 3.6 Vancouver 13 46.2 53.8 7.7 -_ _ --61.5 30.8 -West Vancouver 46 17.4 97.8 82.6 _ _ .2.2 ---Victoria 33 30.3 18.2 3.0 3.0 -36.4 9,1 72.7 24,3 3,0 -Sidney **5** 20.0 -20.0 20.0 20.0 20.0 _ 20.0 60.0 20.0 -_ Total 407 29.6 20.2 2.2 2.7 6.7 1.5 2.2 . 5 29.1 5.3 28.4 50.5 1.0 21.1

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

TABLE Q-6: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER 1980

TABLE Q-7: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY 1981

| | | | r | | | •• | | Pe | cent Dist | ribution | · | | | | |
|-----------------|----------------------|------|----------|----------------|------------|------------|---------|--------|-----------|-------------|----------|------|--------|----------|--------|
| , ~ | No. of Interviews | | | | | | Fishing | Hethod | | | | · | Fishi | ng Tackl | e · |
| Area of Landing | (Boat Trips) | TR | мо | CA | PL | DR | JI ' | oth | tr/mo | TR/DR or PL | отн сомв | BAIT | LURE | отн | COMB |
| Campbell River | 33 | 81.8 | - | - | - | - | - | | 3.0 | 12.1 | 3.1 | 9.1 | 72.7 | _ | 18.2 |
| Chemalnus | | | | | | • | | | | | | | | | |
| Central Comox | 38 | 34.2 | - | 31.6 | - | - | - | - | 2.6 | | 31.6 | 7.9 | 65.8 | - | 26.3 |
| orth Comox | • | | | | | | | | | | | | - | | |
| South Comox | | | | | | | | | | | | | | | |
| Cowichan Bay | 61 | 37.7 | 9.8 | - | - | - | 1.6 | 1.6 | 4.9 | 31.2 | 13.2 | 13.3 | 71.7 | 1.7 | 13.3 |
| Delta | | | | | | | | · . | | | | | | | |
| gmont | | | | | | | | | | | | | | | |
| ibson's Landing | | | | | | | | | | | | | | | • • |
| adysmith | 33 | 39.4 | - | _ | _ | . . | - | _ | 6.1 - | 45,5 | 9.0 | 3.0 | 78.8. | - | • K |
| und | 33 | | | | | | | | 0.1 - | | 5.0 | | | _ | . 10.2 |
| lana imo | 95 | 45.2 | - | 1.1 | - | 6.5 | 1.1 | - | 1.1 | 43.0 | 2.0 | 8.6 | 77.4 | - | 14.0 |
| ender Harbour | 38 | 18.4 | 73.7 | · . | ` - | - | 2.6 | - | - | · – . | 5.3 | 81.1 | 13.5 | - | 5.4 |
| owell River | 9 | 66.7 | <u>.</u> | 11.1 | - | - | · - | · - | - | 11.1 | 11.1 | • 🗕 | 88.9 | - | 11.1 |
| ualicum North | | | | | | | | | | | | | | · | |
| Jualicum South | · 8 | 50.0 | - | - | - | - | 12.5 | - | 25.0 | 12.5 | - | - | 75.0 | - | 25.0 |
| lichmond | | | | | | | | · | | | | | • | | |
| aanich Inlet | 230 | 31.0 | - | 4.4 | 7.4 | 3.5 | 8.3 | .9 | .4 | 38.0 | 6.1 | 13.1 | 49.8 | 1.3 | 35.8 |
| ooke | 239 | 33.5 | 1.3 | .8 | .8 | 9.2 | 3.3 | 1.3 | .8 | 43.5 | 5.5 | 17.3 | 43.5 | .8 | 38.4 |
| ancouver | 85 | 21.4 | 76.2 | | - | - | - | 2.4 | - | - | - | 94.0 | 6.0 | - | - |
| lest Vancouver | 98 | 13.4 | 86.6 | - | ~ | - | | | - | - | - | 97.9 | 2.1 | - ' | - |
| ictoria | 98 | 33.7 | | - | - , | 6.1 | 2.0 | - | 1.0 | 50.0 · | 7.2 | 15.3 | 42.9 | . – | 41.8 |
| Sidney | 58 | 27.6 | 3.4 | 1.7 | - | 22.4 | 1.7 | 1.7 | - | 37.9 | 3.6 | 31.6 | 33.3 · | 1.8 | 33.3 |
| Total | 1,123 · | 32.7 | 16.7 | 2.4 | 1.7 | 4.9 | 3.0 | .8 | . 1.3 | 30.7 | 5.8 | 29.7 | 44.4 | .6 | 25.3 |

.

.

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

,

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

.

Percent Distribution No. of Fishing Method Fishing Tackle Interviews Area of Landing (Boat Trips) TR MO CA PL DR JI. OTH TR/MO TR/DR or PL OTH COMB BAIT LURE OTH COMB Campbell River 27 81.5 11.1 7.4 22.2 55.6 -22.2 Chemainus Central Comox 21 40.0 20.0 40.0 15.0 75.0 10.0 North Comox South Comox Cowichan Bay 26 7.7 11.5 3.8 34.6 3.8 19.2 19.4 19.2 69.2 3.8 7.8 Delta Egmont Gibson's Landing ာ Ladysmith 26 28.0 12.0 8.0 32.0 8.0 92.0 8.00 8.0 4.0 Lund Nana imo 87 28.7 1.1 3.4 2.3 1.1 -62.1 1.3 19.5 58.6 1.1 20.8 Pender Harbour 42 9.5 83.5 2.4 4.8 87.8 7.3 2.4 ---2.5 Powell River 4 50.0 50.0 100,0 -_ ---Qualicum North Qualicum South 10 50.0 50.0 20.0 50.0 30.0 -_ Richmond . Saanich Inlet . 198 29.6 2.6 3.1 11.7 2.6 7.1 .5 33.7 8.1 .5 1.0 14.2 38.6 46.7 Sooke 25.8 182 62.1 -1.1 4.4 2.2 .5 .5 3.4 25.9 50.0 24.1 _ Vancouver 68 38.2 58.8 2.9 95.6 _ --_ --.1 4.4 _ _ West Vancouver _ 83 19.3 78.3 2.4 100.0 + -_ -----Victoria 120 48.3 1.7 9.2 5.8 .8 32.5 1.7 21.6 37.9 .9 -39.6 Sidney 51 33.3 6.3 14.6 8.3 2.1 25.0 6.2 4.2 22.9 47.9 8.3 20,9 Total 945 40.1 15.1 2.0 2.5 2.8 4.9 1.3 1.2 25.3 4.8 35.2 39.6 1.0 24.2

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

TABLE Q-8: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEBRUARY 1981

TABLE Q-9: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCH 1981

. Percent Distribution No. of Fishing Method Fishing Tackle Interviews TR/MO BAIT (Boat Trips) TR MO CA PL DR JT OTH TR/DR or PL OTH COMB LURE OTH COMB Area of Landing Campbell River 4.7 18.2 68.2 13.6 22 81.8 4.5 4.5 4.5 -Chemainus Central Comox 13 50.0 16.7 16.7 8.3 8.3 15.4 69.2 7.7 15.4 North Comox South Comox Cowichan Bay 18 66.7 11.1 5.6 5.5 23.5 52.9 23.6 11.1 Delta Egmont 0-10 20.010 Gibson's Landing Ladysmith 5 80.0 20.0 80.0 - . Lund 98.4 1.2 2.4 5.8 8.3 63.1 1.2 27.4 Nanaimo 85 1.2 -52.1 2.2 54.3 41.3 4.4 Pender Harbour 46 45.7 -3 33.3 100.0 **Powell River** 66.7 --Qualicum North 15 93.3 6.7 71.4 28.6 Qualicum South --Richmond Saanich Inlet 183 48.3 1.1 1.1 13.9 6.7 1.7 20.0 7.2 19.4 33.9 1.7 45.0 -164 85.4 1.8 .6 6.1 .6 .6 4.9 48.1 26.0 -25.9 Sooke _ 69.0 5.2 25.8 Vancouver 58 56.9 34.5 -1.7 **-**' 6.9 _ -5,2 25.8 `**.**9 69.0 5.2 107 24.3 72.9 1.9 --West Vancouver -13.4 3.3 37.5 39.3 ---23.2 Victoria 61 68.3 _ 15.0 -_ -28.0 12.0 24.0 62.0 4.0 20.0/ 25 56.0 4.0 Sidney -Total 805 61.8 16.6 3.3 5.3 .7 1.1 4.9 5.2 41.3 33.4 .8 24.5 1.1 -

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

,

| | _ | | | | | | | Per | cent Dist | ribution | | | | | |
|------------------|----------------------|------|------|-----|------|------------|----------------|--------|-----------|-------------|----------|-------|-------|---------|-------|
| | No. of Interviews | | | | | | Fishing | Method | · | | | | Fishi | ng Tack | le |
| Area of Landing | (Boat Trips) | TR | MO | CA | PL | DR | J 1 | отн | tr/mo | TR/DR or PL | OTH COMB | BAIT | LURE | отн | COMB |
| Campbell River | 46 | 67.4 | 8.7 | - | - | - | 10.9 | - | 8.7 | | 4.3 | 18.2 | 72.7 | - | 9.1 |
| Chemainus | | | | | | | | | | | | ! | | | |
| Central Comox | 52 | 75.0 | - | 3.8 | - | 3.8 | - | - | - | 3.8 | 13.6 | 4.2 | 91.7 | - | 4.1 |
| North Comox | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | , | |
| Cowichan Bay | 12 | 50.0 | - | - | - | - . | 41.7 | 8.3 | - | - | - | 33.3 | 58.3 | 8.3 | .1 |
| Delta | | | | • | | | | | | | | | | | |
| Egmont | | | | | | •• | | | | | | | | | |
| Gibson's Landing | | | | | | | | | | | | | | | • . X |
| Ladysmith | 5 | 80.0 | - | - | - | - | , - | - | - | - | 20.0 | | 60.0 | - | 40.0 |
| Lund | | | | | | | | | | | | • | | | - 1 |
| Nanaimo | 71 | 68.6 | - | 2.9 | - | - | 4.3 | 1.4 | 1.4 | 12.8 | 8.6 | 4.2 | 60.6 | - | 35.2 |
| Pender Harbour | 60 | 68.3 | 25.0 | - | - | 5.0 | | 1.7 | - | - | - | 30.0 | 68.3 | 1.7 | |
| Powell River | 8 | 62.5 | - | - | - | - | - | Ŧ | - | - | 37.5 | - | 100.0 | - | - |
| Qualicum North | | | | | | | | | | | | | | | |
| Qualicum South | 20 | 85.0 | - | - | | - | - | - | 5.0 | io.o | - | • • | 55.0 | - | 45.0 |
| Richmond | | | | | | | | | | | | | | | |
| Saanich Inlet | 95 | 31.5 | 1.1 | 2.2 | 16.3 | - | 10.9 | - | 1.1 | 32.6 | 4.3 | 18.5 | 43.5 | - | 38.0 |
| Sooke | 242 | 68,2 | 1.7 | - | - | .4 | 11.6 | .4 | .8 | 7.8 | 9.1 | 39.5 | 33.6 | - | 26.9 |
| Vancouver | 29 | 62.1 | 27.6 | - | - | | 3.4 | - | 3.4 | - | 3.5 | 65.5 | 27.6 | - | 6.9 |
| West Vancouver | 65 | 34.9 | 65.1 | - | - | - | - | - | - | - | - | 100.0 | - | - | · - |
| Victoria | 11 | 20.0 | _ | - | - | - | 50.0 | - | 10.0 | 10.0 | 10.0 | 57.1 | 42.9 | - | - |
| Sidney | 17 | 23,5 | - | | · _ | - | 23.5 | 5.9 | - | 5.9 | 41.2 | 33.3 | 20.0 | 20.0 | 26.7 |
| Total | 733 | 59.4 | 10.1 | .8 | 2.1 | .4 | 8.4 | .7 | 1.5 | 8.6 | 8.0 | 33.3 | 45.4 | .7 | 20.6 |

~

TABLE Q-10: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL 1981

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

.

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

•

.

TABLE Q-11: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY 1981

| | | | L | | | | | Per | cent Dist | ribution | - | | | | |
|------------------|----------------------------|------|------|------------|-----|-----|---------|----------------|------------|-------------|----------------|------|-------|---------|--------|
| • | No. of | • . | | ···· | | | Fishing | Method | Count Disc | 7 | | | Fishi | ng Tack | le |
| Area of Landing | Interviews (Boat Trips) | TŖ | мо | CA | PL | DR | Ĵ1 | OTH | TR/MO | TR/DR or PL | отн сомв | BAIT | LURE | отн | COMB |
| Campbell River | 394 | 34.6 | 34.1 | .5 ່ | 5.1 | .3 | 5.1 | 1.0 | 4.8 | 10.6 | 3.9 | 52.0 | 39.0 | 1.3 | 7.7 |
| Chemainus | | | | | | | | | - | | · · | | | | |
| Central Comox | 293 | 47.1 | - | 14.3 | 1.7 | .7 | 1.0 | .3 | - | 18.9 | 16.0 | 3.3 | 88.8 | . 4 | 7.5 |
| North Comox | 196 | 92.9 | - | - | | .5 | .5 | · .5 | - | 5 | 5.1 | .5 | 99.0 | 5 | - |
| South Comox | | | | | | | | | | | | | | | |
| Cowichan Bay | 31 | 54.8 | 9.7 | - | - | - | 22.6 | 3.2 | - | . – | 9.7 | 16.1 | 64.5 | 3.2 | 16.2 |
| Delta | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | | | | • | | |
| Gibson's Landing | 28 | 17.9 | 71.4 | - | - | - | _ | - | 3.6 | 7.1 | - | 92.9 | 7.1 | - | ·C |
| Ladysmith | 2 | 50.0 | - | - | - | - | 50.0 | - | · _ | - | - | - | 50.0 | - | 50.0H |
| Lund | 12 | 81.8 | - | - . | - | - | 9.1 | - . | - | 9.1 | - . | 9.1 | 63.6 | 9.1 | 18.2 |
| Nanaimo | 122 | 63.9 | 4.1 | - | ~ | .8 | 3,3 | 2.5 | .8 | 18.9 | 5.7 | 6.6 | 78.7 | 2.5 | 12.2 |
| Pender Harbour | 62 | 45.7 | 39.0 | - | - | 8.5 | 1.7 | - | 5.1 | - | - | 75.9 | 22.4 | - ' | 1.7 |
| Powell River | 93 | 71.0 | 7.5 | 2.2 | 1.1 | 2.2 | 1.1 | 2.2 | 1.1 | 7.6 | 4.0 | 17.8 | 71.1 | 6.7 | 4.4 |
| Qualicum North | 63 | 66,1 | - | - | 1.6 | - | - | - | - | 27.4 | 4.9 | 1.7 | 90,0 | - | 8.3 |
| Qualicum South | 549 | 82.6 | .4 | - | - | - | .7 | ·- | - | 15.6 | .7 | 1.3 | 94.5 | - | 4.2 |
| Richmond | | | | | | | | | | | | | | | |
| Saanich Inlet | 320 | 31.9 | 9 | .6 | 2.2 | 1.9 | 4.1 | .6 | .3 | 45.6 | 11.9 | 40.7 | 27.6 | .6 | 31.1 |
| Sooke | 505 | 73.3 | 2.0 | . 4 | - | 3.4 | 3.2 | . 4 | 3.4 | 8.4 | 5.5 | 37.0 | 23.2 | .2 | 39.6 |
| Vancouver | 107 | 62.3 | 24.5 | - | - | 2.8 | .9 | .9 | 8.5 | - | .1 | 15.1 | 20.8 | - | 63.2 |
| West Vancouver | 325 | 45.0 | 39.0 | . 3 | .3 | 1.3 | - | .9 | 11.0 | 1.3 | .9 | 3.5 | 8.5 | .9 | 87.1 |
| Victoria | 149 | 42.3 | 2.7 | 1.3 | - | 1.3 | 15.4 | .7 | 3.4 | 11.4 | 21.5 | 39.5 | 44.2 | - | 16.3 |
| Sidney | 136 | 22.8 | 5.9 | .7 | ÷ | 1.5 | 33.1 | 1.5 | - | 12.5 | 22.0 | 31.1 | 52.3 | 1.5 | 15.1 |
| Total | 3,387 | 57.2 | 11.0 | 1.6 | 1.0 | 1.4 | 4.2 | .7 | 2.7 | 13.7 | 6.5 | 30.2 | 52.6 | .8 | 16.4 |

. •

;

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

~

| | No. of | | | | | | | · · · · · · · · · · · · · · · · · · · | rcent Dist | I IDUCION | | <u></u> | | | |
|-----------------|----------------------|-------------|------|---------|-----------|-----|--------|---------------------------------------|------------|-------------|-------------|---------|-------|----------|------|
| | NO. OI Interviews | <u></u> | | | | | Pishin | Method | | - <u></u> | | | Fishi | ng Tackl | e |
| Area of Landing | (Boat Trips) | TR | MO | CA | PL | DR | JI' | OTH | . TR/MO | TR/DR or PL | OTH COMB | BAIT | LUŔE | отн | COME |
| Campbell River | 572 | 49.6 | 23.2 | .7 | 3.2 | 1.6 | 2.5 | .5 | 7.4 | 8.0 | 3.8 | 51.7 | 35.8 | - | 12.5 |
| Chemainus | 74 | 46.6 | 8.2 | 1.4 | - | 4.1 | 11.0 | - | 1.4 | 24.7 | 2.6 | 29.4 | 47.1 | - | 23.5 |
| Central Comox | 406 | 39.7 | - | 4.7 | 3.7 | - | 5.0 | . – | - | 38.9 | 8.0 | 3.5 | 78.7 | - | 17.8 |
| North Comox | 601 | 94.5 | .2 | - | .2 | | 1.7 | - | .5 | .2 | 2.7 | 1.3 | 97.2 | _ | 1.5 |
| South Comox | | | | | | | | | | | | | | | |
| Cowichan Bay | 66 | 40.0 | 33.8 | - | - | | 13.8 | 1.5 | 3.1 | 6.2 | 1.6 | 40.3 | 43.5 | 1.6 | 14.6 |
| elța | 18 | 55.5 | 22.2 | - | - | | 5.6 | - | 16.7 | . – | | 55.6 | 27.8 | - | 16.6 |
| gmont | | | | | | | | | | | | | | | 10.0 |
| ibson's Landing | 81 | 19.0 | 75.9 | - | - | - | - | - | 5.1 | _ | - | 94.0 | 1.5 | _ | 4.5 |
| adysmith | 35 | 82.4 | _ | - | - | 2.9 | 2.9 | - | 5.9 | 2.9 | 3.0 | 23.5 | 38.2 | _ | |
| und | 34 | 82.4 | 2.9 | 2.9 | 2.9 | 2,9 | - | <u> </u> | - | 5.9 | .1 | 2.9 | 85.3 | 2.9 | 8.9 |
| lana imo | 213 | 73.9 | 3.8 | • == | .5 | .9 | 2.8 | .5 | .9 | 10.0 | 6.7 | 21.4 | 62.9 | .5 | 15.2 |
| ender Harbour | 91 | 47.2 | 46.2 | - | - | - | • – | - | 5.5 | 1.1 | · _ | 69.2 | 27.5 | - | 3.3 |
| Powell River | 222 | 79.2 | 1.4 | - | . | .9 | 1.4 | - | 1.4 | 13.7 | 2.0 | 3.2 | 83.6 | 5.5 | 13.2 |
| Qualicum North | 158 | 84.8 | - | - | - | - | - | .6 | - | 12.7 | 1.9 | - | 97.5 | - | 2.5 |
| Jualicum South | 343 | 85.7 | .9 | - | - | - | 1.5 | . 3 | .9 | 8.8 | 1.9 | 1.8 | 93.6 | . 3 | 4.3 |
| Richmond | 64 | 68.8 | 10.9 | - | - | - | - | - | 18.8 | - | 1.5 | 37.5 | 25.0 | - | 37.5 |
| Saanich Inlet | 262 | 43.5 | - | 4 | - 4 | · | 6.5 | - | 1.1 | 37.0 | 11.1 | 27.4 | 25.1 | - | 47.5 |
| Sooke | 818 | 55.0 | .7 | .5 | - | .1 | 3.8 | .2 | 1.8 | 30.4 | 7.5 | 58.9 | 7.6 | .2 | 33.3 |
| ancouver | 73 | 69.9 | 21.9 | - | - | 1.4 | - | - | 4.1 | 1.4 | 1.3 | 64.4 | 21.9 | - | 13.7 |
| lest Vancouver | 392 | 34.5 | 48.9 | | .5 | 2.6 | .3 | .3 | 11.8 | 1.1 | - | 76.6 | 12.1 | - | 11.3 |
| /ictoria | 130 | 38.5 | 3.1 | _ | - | - | 27.7 | .8 | 2.3 | 10.8 | 16.8 | 15.7 | 44.9 | .8 | 38.6 |
| Sidney | 67 | 16.4 | 4.5 | 1.5 | | - | 37.3 | 1.5 | 3.0 | 20.9 | 14,9 | 17.9 | 58.2 | 1.5 | 22.4 |
| Total | 4,720 | 59.7 | 10.7 | · .7 | .8 | .6 | 4.0 | .3 | 3.3 | 15.1 | 4.8 | 32.4 | 49.9 | . 4 | 17.3 |

TABLE Q-12: FISHING METHOD AND TACKLE SUMMARY FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JUNE 1981

Legend: TR - trolling MO - mooching CA - casting PL - planing DR - downrigger JI - jigging OTH - other single OTH COMB - other combination COMB - combination

TR/DR or PL - includes TR/DR, DR/PL, TR/PL and TR/DR/PL.

.

.

APPENDIX R

DISTRIBUTIONS OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA

Grouped Landing Site Areas Site Numbers 500-522 Campbell River 203-204 Chemainus 500 Central Comox 403-411 North Comox 400-402 412-414 South Comox Cowichan Bay 214-217,219-221 505 Delta 954,956 517⁵⁰⁶ 501 704-706 Egmont Gibson's Landing 715-716 Ladysmith 201,202,212,213 606-607 Lund 200,206-211,218 504 Nanaimo 518 Pender Harbour 707-714,717-719 401 605 Powell River 600-605 400 Qualicum North 302-304,307 602 603 402 Qualicum South 300-301,305-306 950-953,955 403 Richmond Saanich Inlet 100,110-112 407 Sooke 103,105,107,109 604 405 406 Vancouver 900-901 601 West Vancouver 4'08 404 800-806 410 409 600 102,106,108,113 Victoria 411 Sidney 101 412 413 414 01 03 708 302 02 14 . 304 307 720 303 715 800 300 716 305 801 306 802 301 803 804 200 805₈₀₆852 206 207 208 01 900 209 210 952 951 ²¹¹218 955 213 212 201 956 2024 203 217 216 214 220 219 221 110 08

R-1

C

Э

R-2

TABLE R-1: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JULY 1980

.

.

| | No. of | | | | Pe | rcent I | Distri | bution | Total | Salmor | niđ in | Creel | | | | |
|------------------|----------------------------|------|------|------|------|---------|--------------|--------|-------|------------|--------|-------|------------|-----|--|-----|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5. | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | % of Boat Trips With Limit of Salmonids | (1) |
| Campbell River | 2,229 | 36.4 | 21.4 | 13.2 | 9.7 | 7.7 | 3.6 | 2.7 | 1.8 | 2.1 | .4 | .4 | .1 | .5 | 2.6 | |
| Chemainus Area | 166 | 57.3 | 10.9 | 9,6 | 8.4 | 4.2 | 2.4 | 2.4 | .6 | 3.0 | - | .6 | - | .6 | 3.6 | |
| Central Comox | 824 | 45.2 | 22.2 | 13.5 | 6.8 | 4.7 | 1.8 | 1.9 | 1.3 | 1.8 | .1 | .4 | - | .3 | 2.7 | |
| North Comox | 630 | 27.4 | 19.1 | 19.3 | 12.6 | 9.1 | 2.9 | 3.2 | 2.5 | 2.4 | .3 | - | .3 | .9 | 2.7 | |
| South Comox | , 65 | 30.8 | 20.0 | 16.9 | 9.2 | 12.3 | 1.5 | 4.6 | 1.5 | 1.5 | 1.5 | - | - | - | 1.5 | |
| Cowichan Bay | 224 | 72.8 | 16.1 | 5.4 | 2.7 | 1.3 | .4 | .4 | - | .4 | - | .4 | - | - | - | |
| Delta | 159 | 51.6 | 18.9 | 11.9 | 6.3 | 3.8 | 1.9 | 1.3 | 2.5 | 1.3 | - | .6 | - | - | 2,5 | ſ |
| Egmont | 159 | 81.1 | 10.1 | 2.5 | 3.1 | 1.3 | - | .6 | .6 | <u> </u> | .6 | - | - | - | .6 | |
| Gibson's Landing | 139 | 70.5 | 11.5 | 7.2 | 4.3 | 2.9 | 1.4 | .7 | . – | | .7 | - | - | .7 | .7 | |
| Ladysmith | 124 | 59.7 | 15.3 | 6.5 | 6.5 | 4.8 | 2.4 | 1.6 | .8 | 2.4 | - | · - | - | - | 4.8 | |
| Lund | 139 | 61.9 | 18.7 | 7.2 | 6.5 | 2.9 | · . 7 | .7 | - | 1.4 | - | - | - ' | - | 2.9 | |
| Nanaimo | 962 | 36.8 | 20.5 | 13.9 | 9.7 | 6.4 | 3.5 | 2.6 | 2.9 | 2.7 | .3 | - | .1 | .5 | . 3.8 | |
| Pender Harbour | 848 | 47.7 | 17.2 | 9.6 | 7.0 | 5.7 | 2.2 | 3.0 | 2.0 | 2.6 | .2 | .5 | ` - | 2.3 | 3.0 | |
| Powell River | 790 | 48.9 | 18.4 | 13.9 | 7.2 | 5.3 | 1.8 | 2.4 | .6 | .9 | .3 | .1 | - | .3 | 1.6 | |
| Qualicum North | 430 | 49.8 | 18.1 | 11.2 | 7.7 | 6.0 | 1.9 | .7 | 2.6 | 1.9 | | - | .2 | - | 3.7 | |
| Qualicum South | 923 | 38.2 | 18.0 | 15.2 | 8.2 | 6.6 | 4.1 | 2.8 | 1.4 | 3.6 | .5 | . 4 | .1 | .9 | 4.8 | |
| Richmond | 136 | 61.1 | 19.9 | 5.1 | 6.6 | 3.7 | 1.5 | .7 | .7 | .7 | - | - | - | - | 2.2 | |
| Saanich Inlet | 647 | 69.8 | 17.9 | 5.1 | 3.9 | 1.9 | .6 | .5 | .3 | _ · | - | - | - | - | •5 | |
| Sooke | 1,047 | 54.6 | 20.6 | 11.3 | 6.5 | 3.2 | 1.3 | 1.1 | .7 | .6 | - | - | ~ | .1 | 1.9 | |
| Vancouver | 235 | 53.9 | 19.6 | 8.9 | 6.4 | 3.0 | 2.6 | 1.7 | .9 | 2.6 | .4 | - | - | - | 3.4 | |
| West Vancouver | 1,047 | 70.0 | 17.7 | 6.0 | 2.8 | 1.1 | 1.1 | .3 | .3 | .4 | .1 | - | - | .2 | .8 | |
| Victoria | 382 | 72.3 | 19.7 | 2.9 | 1.6 | 1.6 | .8 | .3 | .3 | .5 | - | - | - | - | 1.2 | |
| Sidney | 212 | 76.4 | 12.7 | 6.1 | 1.9 | - | - | .9 | .5 | .9 | .5 | - | - | - | .9 | |
| Total | 12,517 | 49.6 | 19.0 | 11.1 | 7.1 | 5.0 | 2.3 | 1.9 | 1.3 | ե.7 | .2 | . 2 | .1 | .5 | 2.4 | |

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

.

TABLE R-2: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, AUGUST 1980

٠

| | No. of | | | | Per | cent D | istrit | ution | Total | Salmon | iđin (| Creel | | | |
|------------------|----------------------------|------|------|------|------|--------|-------------|-------|-------|--------|----------|-------|-----|-----|--|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | <pre>\$ of Boat Trips With Limit of Salmonids(1)</pre> |
| Campbell River | 1,834 | 39.2 | 24.2 | 14.6 | 8.2 | 6.6 | 2.7 | 1.8 | .8 | 1.4 | .1 | .1 | .1 | .3 | 1.9 |
| Chemainus Area | 107 | 64.5 | 17:8 | 7.5 | 2.8 | 2.8 | 3.7 | .9 | - | - | - | - | - | - | - |
| Central Comox | 630 | 54.8 | 20.0 | 11.1 | 5.9 | 5.1 | .8 | . 1.6 | .5 | . 2 | <u>_</u> | - | - | - | 1.9 |
| North Comox | 639 | 41.2 | 23.6 | 15.5 | 7.7 | 4.7 | 2 .2 | 1.3 | .9 | 1.3 | . 2 | .8 | .3 | .6 | 2.7 |
| South Comox | 63 | 50.8 | 19.0 | 7.9 | 14.3 | r.6 | - | 4.8 | 1.6 | - | - | - | - | | 1.6 |
| Cowichan Bay | 260 | 74.6 | 13.1 | 6.2 | 3.8 | 1.9 | - | - | .4 | - | . –. | - | - | - | - · |
| Delta | 285 | 16.1 | 18.2 | 9.8 | 5.3 | 2.5 | .7 | 1.4 | .7 | - | | ~ | - | . 4 | - |
| Egmont | 116 | 88.7 | 9.6 | .9 | .9 | - | - | · – | | - | - | ~ | - | - | · _ |
| Gibson's Landing | 65 | 50.8 | 23.1 | 7.7 | 10.8 | 6.2 | - · | 1.5 | - | - | - | - | · - | - | 3.1 |
| Ladysmith | 118 | 75.4 | 14.4 | 3.4 | 2.5 | .8 | 2.5 | .8 | - | - | _ | - | - | - | |
| Lund | 38 | 50.0 | 21.1 | 23.7 | - | 5.3 | - | - | - | - | - | - | · _ | - | - |
| Nanaimo | 585 | 56.9 | 25.5 | 8.7 | 3.9 | 2.9 | .3 | .9 | .5 | .2 | .2 | - | - | - | 1.4 |
| Pender Harbour | 771 | 61:5 | 13.7 | 9.6 | 3.5 | 3.8 | 2.5 | 1.2 | 1.0 | 1.7 | .3 | .1 | .1 | 1.0 | 1.4 |
| Powell River | 475 | 58.3 | 21.7 | 9.1 | 4.6 | 2.3 | 1.7 | .6 | - | .8 | .4 | - | - | .4 | 1.5 |
| Qualicum North | 503 | 58.4 | 19.1 | 10.9 | 6.0 | 3.6 | 1.4 | · .2 | - | . 4 | - | - | - | - | 1.0 |
| Qualicum South | 584 | 49.0 | 23.5 | 13.0 | 7.0 | 2.1 | 1.2 | 1.2 | 1.0 | 1.5 | - | .2 | | . 4 | 1.9 |
| Richmond | 136 | 57.4 | 22.8 | 9.6 | 5.9 | 2.2 | .7 | 1.5 | - | - | - | . – | - | - | .7 |
| Saanich Inlet | 587 ' | 60.5 | 18.6 | 10.2 | 4.3 | 3.2 | 1.0 | .5 | .5 | .5 | .2 | - | . 3 | .2 | 1.9 |
| Sooke | 681 | 58.5 | 23.4 | 8.5 | 4.0 | 2.4 | .7 | .7 | .4 | .7 | .3 | .1 | .1 | - | 2.1 |
| Vancouver | 241 | 49.0 | 19.5 | 11.2 | 9.5 | 5.8 | .8 | 1.7 | 1.2 | .8 | - | - | - | . 4 | 2.5 |
| West Vancouver | 1,031 | 66.1 | 17.7 | 7.0 | 4.3 | 2.6 | 1.0 | .7 | . 4 | .3 | .1 | - | - | - | .7 |
| Victoria | 309 | 70.6 | 16.2 | 4.5 | 5.5 | 1.3 | .6 | .6 | .3 | . 3 | · _ | - | - | - | 1.0 |
| Sidney | . 141 | 75.2 | 14.9 | 5.0 | 1.4 | 2.1 | .7 | - | .7 | | - | - | - | - | · - |
| Total | 10,199 | 55.5 | 20.4 | 10.4 | 5.6 | 3.7 | 1.4 | 1.1 | .6 | .8 | .1 | .1 | 1.1 | .2 | 1.5 |

.

.

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-3

l

먼

•

TABLE R-3 : DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIGHT CREEL SURVEY RAW DATA, SEPTEMBER 1980

.

| | No. of Interviews | | | <u> </u> | | Perc | ent Di | stribu | tion T | otal : | Salmon | id in (| Creel | | | • of Boat Trips | |
|------------------|----------------------|---|--------------|----------|------|-----------|--------|------------|--------|--------------|--------|---------|-------|----|-----|-----------------------|--------|
| Area of Landing | (Boat Trips) | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of Salmoni | ds (1) |
| Campbell River | 559 | | 34.2 | 28.1 | 12.7 | 8.9 | 7.9 | 4.8 | 1.4 | .5 | .5 | - | .2 | .2 | .6 | 2.3 | |
| Chemainus Area | 36 | | 52.8 | 19.4 | 22.2 | 2.8 | - | - | - | - | 2.8 | - ' | - | - | - | 2.8 | • |
| Central Comox | 186 | | 68.6 | 16.1 | 5.9 | 4.3 | 2.2 | 1.1 | .5 | - | .5 | | - | - | .5 | .5 | |
| North Comox | 146 | ` | 47.3 | 24.7 | 14.4 | 5.5 | 2.7 | 3.4 | .7 | - , ' | .7 | 7 | - | - | - | 2.1 | |
| South Comox | | | | | | | | | | | | | | | | | |
| Cowichan Bay | 124 | | 73.4 | 14.5 | 8.9 | 3.2 | - | - . | | - | - | - | • - | - | · _ | - | |
| Delta | 50 | | 64.0 | 26.0 | 4.0 | . | - | | 2.0 | 2.0 | - | · 🕳 | - | - | 2.0 | 2.0 | • |
| Egmont | · . | | | | | | | | , | | | | | | | | |
| Gibson's Landing | 50 | • | 64.0 | 16.0 | 8.0 | 4.0 | 4.0 | - | 2.0 | - | - | 2.0 | - | - | - | - | |
| adysmith | 65 | | 52.3 | 24.6 | 7.7 | 10.8 | 1.5 | 1.5 | - | 1.5 | - | - | - | | - | 1.5 | |
| Lund | 7. | | 71.4 | 28.6 | - | - | - | | - | - | - | - | - | - | - | - | |
| Nanaimo | 139 | | 51.8 | 32.4 | 8.6 | 5.0 | 1.4 | .7 | - i | | - | - | - | - | - | | , |
| Pender Harbour | 115 | | 53. 0 | 18.3 | 13.0 | 7.0 | 1.7 | 2.6 | .9 | - | 2.6 | - | - | - | .9 | .9 | |
| Powell River | 78 | | 55.1 | 24.4 | 10.3 | 5.1 | 1.3 | 2.6 | 1.3 | - | - | - | · | - | - | - | |
| Qualicum North | 124 | ÷ | 54.0 | 26.6 | 8.1 | 4.8 | 1.6 | 2.4 | 1.6 | .8 | - | · _ | . – | - | - | - | |
| Qualicum South | 221 | | 53.4 | 24.4 | 9.5 | 6.3 | 2.3 | .5 | 2.3 | .9 | - | - | - | - | .5 | .9 | |
| Richmond | 98 | | 60.2 | 19.4 | 9.2 | 4.1 | 2.0 | 2.0 | 2.0 | - | 1.0 | - | - | - | - | · _ | |
| Saanich Inlet | 356 | | 51.1 | 20.8 | 11.0 | 5.9 | 4.5 | 3.1 | .8 | 1.1 | 1.4 | - | - | - | .3 | 2.5 | |
| Sooke | 289 | | 47.1 | 17.0 | 16.3 | 7.6 | 6.2 | 1.4 | 1.7 | 1.4 | 1.0 | - | .3 | - | - | 2.1 | |
| Vancouver | 154 | | 63.8 | 14.5 | 11.8 | 4.6 | 2.0 | 1.3 | 2.0 | - | - | - | - | - | - | - | |
| West Vancouver | 322 | | 65.2 | 17.1 | 7.8 | 4.0 | 2.8 | 1.2 | .6 | - | .9 | - | .3 | - | - | 1.2 | |
| Victoria | 164 | | 72.6 | 15.2 | 7.3 | 3.7 | - | <u>-</u> ` | .6 | - | - | - | - | - | .6 | .6 | |
| Sidney | 54 | | 75.9 | ,16.7 | 7.4 | - | - | - | | - | - | - | - | - | - | 2 | |
| Total | 3,337 | • | 54.2 | 21.3 | 10.6 | 5.8 | 3.4 | 2.0 | 1.1 | .5 | .6 | .1 | .1 | - | .3 | 1.3 | |

.

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

.

. Percent Distribution Total Salmonid in Creel No. of • of Boat Trips Interviews 11 12+ With Limit of Salmonids (1) 2 5 6 7 8 9 10 0 1 3 4 Area of Landing (Boat Trips) .6 1.1 21.8 16.8 1.1 8.4 5.0 2.8 1.1 42.5 179 Campbell River Chemainus Area 2.2 2.2 6.5 2.2 2.2 78.3 6.5 46 Central Comox 5 40.0 40.0 20.0 North Comox South Comox 50.0 33.3 16.7 6 **Cowichan Bay** Delta Egmont 78.3 8.7 8.7 4.3 23 Gibson's Landing Ladysmith Lund 3.7 .7 .3 5.3 10.6 5.3 3.3 . 3 1.3 301 48.2 24.3 Nanaimo 1.5 17.9 4.5 1.5 67 74.6 Pender Harbour 3.5 2.7 3.5 6.2 1.8 2.7 12.4 10.6 37.2 22.1 113 Powell River Qualicum North 2.1 2.1 21.3 '18.1 6.4 2.1 2.1 1.1 46.8 94 Qualicum South _ 4.8 21 61.9 28.6 4.8 Richmond 2.5 . 3 . 3 1.6 1.9 .6 18.2 9.4 6.3 4.1 319 57.4 Saanich Inlet 3.1 .2 .5 1.7 . 2 11.1 5.4 19.9 4.3 1.0 1.4 588 54.4 Sooke -17.9 7.1 75.0 -28 Vancouver _ 5.4 1.8 12.0 80.0 166 West Vancouver .8 1.5 2.3 1.5 79.5 15.2 132 Victoria _ 12.2 **41** 82.9 4.9 Sidney 2.2 .1 .1 .1 .1 .9 19.1 10.1 5.2 3.6 1.5 1.0 .6 57.6 2,129 Total

R-5

Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person. (1)

TABLE R-4 : DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, OCTOBER 1980

1

ć

. .

TABLE R-5: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, NOVEMBER, 1980

| | No. of | | | | Per | cent D | istrib | ution 7 | Fotal | Salmoni | dind | Creel | | | | - 1 - 1 | |
|------------------|----------------------------|------|---------|-----|------|--------|--------|---------|--------------|---------|-------------|-------|----------|-----|------------------------------|--------------------|------------|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 . | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | • of Boat With Limit of : | Trips Salmonids | (1) |
| Campbell River | 16 | 62.5 | 31.3 | - | 6.3 | - | - | - | - | - | . _ | - | - | - | - | | |
| Chemainus Area | | | · | | | | | | | | | | | | | | |
| Central Comox | 38 | 73.7 | 10.5 | 2.6 | 10.5 | 2.6 | _ ' | - | - | - | _ | - | - | - | - | | |
| North Comox | | | | | | • | | ; | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | • | | | |
| Cowichan Bay | 32 | 46.9 | 3.1 1 | 5.6 | 9.4 | 6.3 | 6.3 | 6.3 | . | 6.3 | | - | - | - | 9.4 | | |
| Delta | | | | | | | | | | | | | | | | • | 6 Fri |
| Egmont | | | | | | | | | | | | | | | | | • ਸ - 6 |
| Gibson's Landing | | | | | | | | | | | | | | | | | . 01 . |
| Ladysmith | | | | | | • | | | | | | | | | | | |
| Lund | | | | | | | | | | • . | | | | | | | |
| Nanaimo | 41 | 34.1 | 26.8 1 | 2.2 | 2.4 | 7.3 | - | 4.9 | - | 12.2 | - | - | - | - | 17.1 | | |
| Pender Harbour | 43 | 39.5 | 30.2 1 | 4.0 | 2.3 | 11.6 | 2.3 | - | | - | ~ | • | - | - | 2.3 | | |
| Powell River | 12 | 41.7 | 16.7 3 | 3.3 | - | - | - | · | - | 8.3 | - | - | - | | 8.3 | | |
| Qualicum North | | | | | | | | | | | | | | | | | |
| Qualicum South | 6 | 66.7 | 16.7 | - | 16.7 | - | - | - | - | | - | - | - | - | - | | |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | 93 | 48.4 | 17.2 | 7.5 | 7.5 | 6.5 | 4.3 | - | 1.1 | 4.3 | - | · 1.1 | - | 2.2 | 7.5 | | |
| Sooke | 99 | 42.4 | 17.2 1 | 1.1 | 10.1 | 7.1 | 7.1 | 1.0 | - | 2.0 | - | 2.0 | - | · _ | . 6.0 | | |
| Vancouver | 44 | 68.2 | 15.9 6 | 6.8 | 4.5 | 4.5 | - | - | - | - | - | - | <u> </u> | - | - | | |
| West Vancouver | 57 | 57.9 | 28.1 | 3.5 | 3.5 | 5.3 | - | - | - | 1.8 | - | - | - | - | 5,3 | | |
| Victoria | .28 | 32.1 | 17.9 14 | 4.3 | 10.7 | 14.3 | 3.6 | - | ~ | 7.1 | - | - | - | - | 10.7 | | |
| Sidney | 24 | 79.2 | 4.2 12 | 2.5 | 4.2 | - | - | | - | - | . '- | - | - | - | | | |
| Total | 533 | 50.8 | 18.6 8 | 8.8 | 7.5 | 6.2 | 2.8 | .9 | .2 | 3.2 | - | .6 | _ | .4 | 5.8 | | |

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

TABLE R-6: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, DECEMBER, 1980

•

| | No. of | | | , | Per | cent D | istrib | ution 9 | fotal | Salmoni | d in C | reel | | | |
|------------------|----------------------------|------|------|------|------|--------------|--------|---------|--------------|------------|--------|------|-----|----------------|--|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | . 6 | 7 | 8 | 9 | 10 | 11 | 12+ | I of Boat Trips With Limit of Salmonids (1) |
| Campbell River | 16 | 43.8 | 18.8 | 12.5 | 6.3 | 6.3 | - | - | 6.3 | 6.3 | - | - | _ | - | - |
| Chemainus Area | | | | | | | | | • | | | | | | |
| Central Comox | 11 | 27.3 | 36.4 | 27.3 | - | ` 9.1 | | ~ | - | - | - | ÷ | - | . · | - |
| North Comox | | | | | | | | | | | | | | | |
| South Comox | | | | | | 1 | | | | | , | | | | ÷ |
| Cowichan Bay | 8. | 12.5 | 12.5 | 25.0 | 37.5 | 12.5 | - | - | - | - 1 | - | ÷ | - | - | - |
| Delta | | | | | | | | | | | | | | | |
| Egmont | | | | | | | | | | | | | | | v |
| Gibson's Landing | | I | | | | | | | | | | | | | |
| Ladysmith | | \$ | | | | | | | • | | | | | | |
| Lund | | | | | • | | | | | | | | | | |
| Nanaimo | 51 | 35.3 | 13.7 | 17.6 | 13.7 | 13.7 | 3.9 | 2.0 | - | - | - | - | - | - | 11.7 |
| Pender Harbour | 31 | 58.1 | 22.6 | 12.9 | 3.2 | 3.2 | - | | - | - | - | - | - | - | 3.2 |
| Powell River | 7 | 42.9 | 28.6 | 14.3 | - | - | - | · _ | - | 14.3 | - | - | - | - | 14.3 |
| Qualicum North | | | | | | | | | | | | | | | |
| Qualicum South | | | | | | | | | | | | | | | |
| Richmond | | | | | | | | | | | | 1 | | | |
| Saanich Inlet | 70 | 30.0 | 12.9 | 15.7 | 10.0 | 11.4 | 5.7 | 2.9 | 2.9 | 7.1 | 1.4 | - | - | - | 12.8 |
| Sooke | 116 | 46.6 | 18.1 | 9.5 | 13.8 | 6.0 | 2.6 | .9 | 1.7 | - | - | .9 | - | - | 4.3 |
| Vancouver | 13 | 69.2 | 7.7 | 15.4 | - | - | 7.7 | - | - | - | - | - | - | - | - |
| West Vancouver | 46 | 58.7 | 21.7 | 2.2 | 10.9 | 4.3 | - | 2.2 | - | - | · - | - | - | | 4.3 |
| Victoria | 33 | 33.3 | 21.2 | 21.2 | 9.1 | 9.1 | - | 3.0 | - | 3.0 | - | - | - ' | - | 6.0 |
| Sidney | 5 | 40.0 | 20.0 | 20.0 | 20.0 | - | - | - | - | | - | - | - | - | - |
| Total | 407 | 42.8 | 17.2 | 13.5 | 10.8 | 7.9 | 2.7 | 1.5 | 1.2 | 2.0 | .2 | .2 | - | | 6.4 |

.

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-7

TABLE R-7: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JANUARY, 1981

| | No. of | | | | Per | cent D | istrit | ution | rotal | Salmoni | ld in (| Creel | | | s of Boat Trips |
|------------------|----------------------------|------|------|------|------|--------|--------|-------|-------|---------|---------|-------|----|-----|----------------------------|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of Salmonids (1 |
| Campbell River | 33 | 45.5 | 15.2 | 18.2 | 6.1 | 6.1 | - | - | 3,0 | 6.1 | - | - | - | - | 9.1 |
| Chemainus Area | | • | | | | | | | | | | | | | • |
| Central Comox | 38 | 42.1 | 15.8 | 15.8 | 5.3 | 10.5 | 2.6 | 5.3 | - | 2.6 | - | - | - | - | 5.2 |
| lorth Comox | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | |
| Cowichan Bay | 61 | 41.0 | 13.1 | 19.7 | 19.7 | 3.3 | 1.6 | - | | 1.6 | - | - | - | - | 3,3 |
|)elta | | | | | | | | | | | | | | | |
| Symont | | | | | | | | | | | | | | | |
| libson's Landing | - | | | | | | | | | | | | | | |
| adysmith | 33 | 18.2 | 18.2 | 12.1 | 12.1 | 21.2 | 3.0 | 6.1 | 3.0 | 3.0 | - | - | - | 3.0 | 21.2 |
| Lund | | | | | | | • | | | | | | | | |
| lana imo | 95 | 36.8 | 9.5 | 7.4 | 12.6 | 16.8 | - | 4.2 | 4.2 | 6.3 | - | - | - | 2.1 | 14.7 |
| ender Harbour | 38 | 73.7 | 15.8 | 10.5 | - | - | - | - | - | - | - | - | - | - | - |
| Powell River | 9 | 44.4 | 11.1 | 22.2 | 11.1 | 11.1 | - | - | - | - | - | - | - | - | - |
| Qualicum North | | | | | | | | | | | | | | | |
| Qualicum South | В | 37.5 | 12.5 | - | - | 12.5 | - | 12.5 | - | 25.0 | - | - | - | - | 25.0 |
| Richmond | | | - | | | | | .' | | | | | | | |
| Gaanich Inlet | 230 | 38.3 | 16.1 | 13.5 | 9.1 | 6.1 | 5.2 | 3.5 | 1.3 | 5.2 | . 4 | - | .9 | . 4 | 6.0 |
| Sooke | 239 | 54.8 | 17.6 | 8.4 | 7.9 | 6.3 | 2.5 | .4 | .4 | 1.7 | - | - | - | - | 4.2 |
| lancouver | 85 | 64.7 | 15.3 | 4.7 | 7.1 | 4.7 | 2.4 | 1.2 | - | - | ~ | - | - | - | 1.2 |
| West Vancouver | 98 | 70.4 | 18.4 | 2.0 | 1.0 | 5,1 | 1.0 | 1.0 | - | 1.0 | • | - | - | - | 2.0 |
| lictoria | 98 | 39.8 | 21.4 | 17.3 | 10,2 | 6.1 | 3.1 | - | - | 1.0 | ~ | - | - | 1.0 | 5.1 |
| Sidney | 58 | 32.8 | 20.7 | 13.8 | 8.6 | 13.8 | 1.7 | - | 3.4 | 3.4 | - | - | - | 1.7 | 6.9 |
| Total | 1,123 | 47.5 | 16.5 | 10.9 | 8.4 | 7.6 | 2.5 | 1.8 | 1.1 | 2.9 | .1 | - | .2 | .5 | 5.9 |

· ·

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-8

TABLE R-8: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, FEBRUARY, 1981

,

| | No. of | | | | Perc | ent D | istríb | ution | Total | Salmon | id in C | reel | | | | |
|------------------|----------------------------|------|--------------|------|------|-------|--------|-------|-------|--------|---------|------------|-----|------------|------|-------------------------------|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | | oat Trips of Salmonids (1) |
| Campbell River | 27 | 40.7 | 25.9 | 11.1 | 14.8 | 3.7 | - | 3.7 | - | - | - | - | - | - | | |
| Chemainus Area | | | • | | | | | 1 | | | | | | | | |
| Central Comox | 21 | 71.4 | 9.5 | 14.3 | 4.8 | - | . – | - | - | - | - | ` - | - | - | | - |
| North Comox | | | | | | | | | | | | | | | | |
| South Comox | | | | | | | | | | | | | | | | · · |
| Cowichan Bay | 26 | 80.8 | 11.5 | - | 3.8 | 3.8 | - | - | - | - | - | - | - | - | | - · |
| Delta | | •, | | | | | | | | | | | | | , | |
| Egnont | | Ň | | | | | | | | | | • | , | | | v |
| Gibson's Landing | | | | | | | | | | | | | | | | |
| Ladysmith | 26 | 61.5 | 15.4 | 7.7 | 7.7 | 7.7 | - | - | - | - | - | - | - | - | 3 | .8 |
| Lund | | | | | | | | | | • | | | | | | |
| Nanaimo | 87 | 27.6 | 14.9 | 6,9 | 12.6 | 5.7 | 6.9 | 3.4 | 2.3 | 12.6 | 1.1 | - | 1.1 | 4.6 | · 18 | . 4 |
| Pender Harbour | 42 | 81.0 | 14.3 | 4.8 | - | - | - | - | - | ~ | · | - | - | - | | - |
| Powell River | 4 | 25.0 | 25.0 | 25.0 | 25.0 | - | - | - | - | ÷ | - | - | | - | | - |
| Qualicum North | | | | | | | | | | | | | | | - | |
| Qualicum South | 10 | 30.0 | 10.0 | 20.0 | 20.0 | 10.0 | - | | - | 10.0 | - | - | - | - | | - |
| Richmond | | | | | | | | | | | | | | | | |
| Saanich Inlet | . 198 | 61.1 | 21.2 | 6.6 | 5.6 | 2.5 | .5 | 1.0 | - | 1.0 | - | - | - | .5 | 1 | .0 |
| Sooke | 182 | 34.6 | 1 8.1 | 19.8 | 10.4 | 7.7 | 2.2 | 3.3 | 1.6 | 1.6 | - | | - | .5 | . 6 | .0 |
| Vancouver | 68 | 70.6 | 14.7 | 7.4 | 5.9 | - | 1.5 | · - | - | - | - | • | - | - | | - |
| West Vancouver | 83 | 66.3 | 18.1 | 7.2 | 4.8 | 3.6 | - | - | - | - | - | - | - | - . | · 1 | . 2 |
| Victoria | 120 | 42.5 | 26,7 | 8.3 | 14.2 | 5.0 | 2.5 | | - ' | .8 | - | - | - | - | 4 | .2 |
| Sidney | .51 | 66.7 | 13.7 | 5.9 | 7.8 | 2.0 | - | 2.0 | 2.0 | - | ÷ ` | - | - | - | 1 | .9 |
| Total | 945 | 52.7 | 18.6 | 9.7 | 8.6 | 4.1 | 1.6 | 1.4 | .6 | 1.9 | .1 | - | .1 | .6 | 3 | .8 |

.

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-9

TABLE R-9: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MARCH, 1981

.

.

| ×4 | No. of | | | | Per | cent D | istrib | ution | Total | Salmon | id in (| Creel | | | • of Boat Trips | |
|------------------|----------------------------|--------|------|------|----------------|--------|------------|-------|-------|--------|---------|-------|----|-----|------------------------|--------------|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of Salmonid | <u>s</u> (1) |
| Campbell River | 22 | 54.5 | 27.3 | 4.5 | 4.5 | 9.1 | - | - | - | - | - | - | - | - | 4.5 | |
| Chemainus Area | | | | | | | | | | | | | | | | |
| Central Comox | 13 | 100.0 | - | - | - | - | - | - | ÷ | - | _ | - | - | - | - | |
| North Comox | | | | | | | | | | | | | | | | |
| South Comox | | | | | N | | | | | | | | | | | |
| Cowichan Bay | 18 | 72.2 | 11.1 | 5.6 | 5.6 | - | _ · | 5.6 | - | | - | - | - | - | 5.6 | |
| Delta | | ••• | | | | | | | | | | | | | | |
| Egmont | | | | | · | | | | | | | | | , | | ר י ו |
| Gibson's Landing | | | | | | | | | | | | | | | · . | 1 |
| Ladysmith | 5 | 40.0 | 40.0 | 20.0 | - . | - | - | · - · | - | - | - | - | - | | · – | • |
| Lund | | | | | | | • | | | | | | | | | |
| Nanaimo | 85 | 37.6 | 21.2 | 15.3 | 10.6 | 9.4 | 2.4 | 2,4 | - | - | 1.2 | - | - | - | 1,2 | |
| Pender Harbour | 46 | 67.4 | 15.2 | 15.2 | - | - | 2.2 | · _ | ÷ | - | - | - | - | - | ÷ | |
| Powell River | · 3 | 66.7 | - | - | 33.3 | - | - | - | · - | - | | - | - | - | - | |
| Qualicum North | , | | | | | | | | | | | | | | · · · | |
| Qualicum South | 15 | 26.7 | 20.0 | 33.3 | 13.3 | - | - | - | - | - | - | - | - | 6.7 | 6.7 | |
| Richmond | | . • | | | | | | • | | | | | | | | • |
| Saanich Inlet | 183 | 73.2 | 13.7 | 6.0 | 2.2 | 2.2 | 1.1 | - | .5 | .5 | .5 | - | - | - | 1.1 | 2 |
| Sooke | 164 | 50.0 | 14.0 | 17.1 | 6.7 | 6.7 | 1.8 | 1.2 | .6 | .6 | .6 | - | .6 | · _ | 3.0 | |
| Vancouver | 58 | . 77.6 | 8.6 | 8.6 | · _ | 3.4 | - | ~ | 1.7 | · _ | - | - | - | - | 1.7 | |
| West Vancouver | 107 | 72.0 | 16.8 | 2.8 | 3.7 | 4.7 | - | - | - | - | - | - | - | - | 4.7 | |
| Victoria | 61 | 36.1 | 23.0 | 6.6 | 4.9 | 9.8 | 9.8 | - | - | 9.8 | | - | - | - | 11.5 | |
| Sidney | 25 | 72.0 | 4.0 | 20.0 | 4.0 | - | - | - | - | - | - | - | - | - | - | |
| Total | 805 | 60.6 | 15.4 | 10.3 | 4.7 | 4.7 | 1.7 | .6 | .4 | 1.0 | .4 | - | .1 | .1 | 3.0 | |

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-10

TABLE R-10: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, APRIL, 1981

| | No. of | | | | Per | cent D | istrib | ution | rotal s | 5 a l mon | id in (| Creel | | | • of Boat Trips | | |
|------------------|----------------------------|------|------|------|-----|--------|--------|-------|---------|------------------|---------|--------------|------------|-----|-------------------------|-----|---|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | .5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of Salmonids | (1) | |
| Campbell River | . 46 | 71.7 | 13.0 | 6.5 | 4.3 | - | 4.3 | - | - | - | - | . | - ' | . 🖛 | - | | |
| Chemainus Area | | | • | | | | | | | | | | | | | • | |
| Central Comox | 52 | 44.2 | 17.3 | 9.6 | 7.7 | 9.6 | 1.9 | 1.9 | 1.9 | - | - | 1.9 | | 3.8 | 5.8 | | |
| North Comox | | | | | | | | | | | | | | | | | |
| South Comox | | | | | | - | | | ` | | | | | | | | |
| Cowichan Bay | 12 | 91.7 | - | 8.3 | - | - | - | - | - | - | - | - | - | - | - | | |
| Delta | | | | | | | | | | | | | | | | 0 | ļ |
| Egmont | | | | | | | | | | | | | | | | | 1 |
| Gibson's Landing | | | | | | | | | | | | | | | | | 1 |
| Ladysmith | 5 | 80.0 | - | 20.0 | - | - | - | - | · - | - | - | - | - | | - | | |
| Lund | | | | | | | | | | | | | | | | | |
| Nanaimo | 71 | 43.7 | 21.1 | 14.1 | 8.5 | 8.5 | 2.8 | - | 1.4 | - | - | - | - | - | 2.8 | | |
| Pender Harbour | 60 | 61.7 | 18.3 | 11.7 | 1.7 | 3.3 | 1.7 | - | 1.7 | - | - | | - | - | - | | |
| Powell River | 8 | 50.0 | - | 50.0 | - | - | - | - | - | - | - | | - | - | - | | |
| Qualicum North | | | | | | | | | | | | | | | | | |
| Qualicum South | 20 | 45.0 | 25.0 | 10.0 | - | 10.0 | 5.0 | - | - | - | · - | + | - | 5.0 | 5.0 | | |
| Richmond | | | | | | | | | | | | | | | | | |
| Saanich Inlet | A 95 | 66.3 | 16.8 | 6.3 | 7.4 | 1.1 | 1.1 | 1.1 | - | - | - | - | - | | · _ | | |
| Sooke | 242 | 59.5 | 20.2 | 11.2 | 5.4 | 1.2 | 2.1 | .4 | - | | - | - | - | - | - | | |
| Vancouver | 29 | | 17.2 | | - | 3.4 | - | ÷ ` | - | - | - | - | - | - | - | | |
| West Vançouver | 65 | 81.5 | 12.3 | 4.6 | 1.5 | - | - | - | - | - | - | - | - | | - | | |
| Victoria | 11 | 63.6 | 9.1 | 9.1 | 9.1 | - | - | 9.1 | - | - | - | - | - | - ' | - | | |
| Sidney | 17 | 76.5 | 17.6 | 5.9 | - | - | - | - | _ | : | - | - | - | • • | - | | |
| Total · | 733 | 61.6 | 17.5 | 10.2 | 4.8 | 2.7 | 1.8 | .5 | .4 | - | - | .1 | - | .4 | .8 | | |

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-11

.

.

.

TABLE R-11: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, MAY, 1981

| | No. of | | | | Per | rcent [| istrit | ution | Total | Salmon | id in | Creel | | | • of Boat | Tring |
|------------------|----------------------------|--------|------|------|------|---------|--------|------------------|--------|--------|------------|----------|----|------------|---------------|-------|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of | - |
| Campbell River | 394 | 50.0 | 18.0 | 13.5 | 9.4, | 4.6 | 1.0 | 1.5 | - - | 1.0 | .3 . | .5 | - | .3 | . 1.3 | |
| Chemainus Area . | | | | | | | | | 4 | · | | | | | • | |
| Central Comox | 293 | 30.7 | 20.1 | 15.4 | 8.5 | 12.6 | i.4 | 4.1 | 1.0 | 4.8 | . 3 | .7 | - | .3 | 8.5 | |
| North Comox | 196 | 11.7 | 11.7 | 15.8 | 16.3 | 17.3 | 8.7 | 4.1 | 1.0 | 9.2 | 2.0 | - | - | 2.0 | 15.3 | |
| South Comox | | | | | | | | - • | | • | | | | | | |
| Cowichan Bay | 31 | 71.0 | 19.4 | 6.5 | 3.2 | - | - | - | - | - | - | - | - | | <i>′</i> – | |
| Delta | | | | | | • | | | | | | | | | | |
| Egmont | | | | | | | , | | | | | | | | | ç |
| Gibson's Landing | 28 | 28.6 | 32.1 | 21.4 | 7.1 | 7.1 | - | - | - | 3.6 | - | <u> </u> | - | · _ | 7.1 | |
| adysmith | 2 | 100.0 | - | - | - | - | - | ~ ' | - | - | - | - | - | . - | . – | |
| Lund | 12 | · 58.3 | 33.3 | 8.3 | | - | · | - | - | - | - | - | - | - | . – | |
| Nanaimo | 122 | 43.4 | 18.0 | 9.0 | 10.7 | 7.4 | 4.9 | 3.3 | · ,8 | 1.6 | - | - | - | .8 | 3.3 | |
| Pender Harbour | 62 | 48.4 | 21.0 | 12.9 | 6.5 | • 🕳 | 6.5 | .' - | 3.2 | - | - | - | - | 1.6 | - | |
| Powell River | 93 | 53.8 | 18.3 | 11.8 | 8.6 | 1.1 | 4.3 | ì.1 | | 1.1 | - | - | - | - | - | • |
| Qualicum North | 63 | 22.2 | 9.5 | 15.9 | 12.7 | 22.2 | 3.2 | 6.3 | - | 7.9 | - | - | - | - | 19.0 | |
| Qualicum South | 549 | 31.1 | 17.1 | 14.4 | 14.6 | 7.7 | 4.2 | 3.6 | 1.3 | 5.1 | .5 | .2 | - | . 2 | 6.7 | |
| Richmond | | | | | | | | | | | | • . | | | | · . |
| Saanich Inlet | 320 | 58.4 | 19.1 | 12.5 | 3.7 | 2.8 | 1.2 | 1.2 | .3 | 3 | .3 | - | - | - | 1.3 | |
| Sooke . | 505 | .62.8 | 24.4 | 9.3 | 1.6 | 1.4 | - | .2 | .4 | - | - ' | - | - | - | . 4 | |
| Vancouver | . 107 | 64.5 | 14.0 | 9.3 | 4.7 | 3.7 | 1.9 | .9 | - | .9 | - | | `- | - | .9 | |
| West Vancouver | 325 | 65.8 | 19.7 | 7.7 | 3.4 | .9 | 1.5 | . 3 [.] | .3 | .3 | - | - | - | - | .6 | |
| lictoria | 149 | 66.4 | 20.8 | 5.4 | 4.0 | 1.3 | 1.3 | .7 | - | - | - | - | - | - | .7 | |
| Sidney | 136 | 68.4 | 19.1 | 4.4 | 2.2 | 3.7 | - | - | .7 | .7 | - | • - | .7 | - | .7 | |
| Total | 3,387 | 48.6 | 19.0 | 11.6 | 7.5 | 5.5 | 2.3 | 1.9 | .6 | 2.3 | .3 | .1 | - | .3 | 3.7 | |

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

۰.

R-12

TABLE R-12: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEL SURVEY RAW DATA, JUNE, 1981

•

| | No. of | | | | Per | rcent D | istrib | ution | Total | Salmoni | id in (| Creel | | | |
|------------------|----------------------------|--------------|----------------------|------|------|---------|--------|-------|-------|------------|------------|-------|-----|----------|--|
| Area of Landing | Interviews (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | <pre>\$ of Boat Trips With Limit of Salmonids(1)</pre> |
| Campbell River | 572 | 44.2 | 19.8 | 11.0 | 7.5 | 6.8 | 2.4 | 3.0 | 1.6 | 1.7 | .3 | .7 | .5 | . 4 | 1.9 |
| Chemainus Area | 74 | 54.1 | 16.2 | 8.1 | 5.4 | 8.1 | 4.1 | 1.4 | 1.4 | 1.4 | <u> </u> | - | - | - | 4.0 |
| Central Comox | 406 | 35.0 | 18.5 | 13.3 | .8.1 | 11.6 | 2.7 | 3.4 | 1.5 | 3.4 | .5 | .5 | .2 | 1.1 | 8.4 |
| North Comox | 601 | 17.5 | 18.1 | 12.1 | 11.8 | 13.0 | 4.8 | 4.3 | 4.2 | 9.3 | .8 | 1.0 | .8 | .2.1 | 14.5 |
| South Comox | | | | | | | | | | | | | | | |
| Cowichan Bay | 66 | 56.1 | 28.8 | 10.6 | 1.5 | 3.0 | ÷ | - | - | - | - | - | - | - | - |
| Delta | 18 | 72.2 | 16.7 | 5.6 | 5.6 | - | - | _ | - | - | - | _ | - | <u>-</u> | - |
| Egmont | | | | | | | | | | | | | | | |
| Gibson's Landing | 81 | 22.2 | 49.4 | 17.3 | 3.7 | 3.7 | 1.2 | - | 1.2 | - | - | - | - | 1.2 | 2.5 |
| Ladysmith | 35 | 54.3 | 14.3 | 11.4 | 11.4 | 2.9 | 2.9 | 2.9 | - | - | - | - | - | | - |
| Lund | 34 | 29.4 | 20.6 | 29.4 | 11.8 | 2.9 | - | - | - | 5.9 | - ' | - | ÷ | - | 5.9 |
| Nanaimo | 213 | 54.5 | 17.8 | 10.3 | 7.0 | 4.7 | 3.3 | .5 | .9 | .5 | - | - | - | .5 | .5 |
| Pender Harbour | 91 | 49.5 | 23.1 | 13.2 | 3.3 | 4.4 | 2.2 | 1.1 | - | 2.2 | - | | 1.1 | - | 1.1 |
| Powell River | 222 | 30.2 | 14.0 | 16.7 | 9.5 | 12.2 | 3.2 | 2.7 | 6.8 | 2.7 | .9 | - | - | 1.4 | 5.4 |
| Qualicum North | 158 | 48.1 | 16.5 | 10.1 | 3.8 | 7,0 | 3.8 | 2.5 | 2.5 | 4.4 | - | .6 | - | .6 | 8.9 |
| Qualicum South | . 343 | 36.4 | 21.6 | 16.9 | 9.6 | 6.1 | 3.8 | 2.3 | .6 | 1.7 | .3 | - | .3 | .3 | 3.2 |
| Richmond | 64 | 62.5 | 21.9 | 7.8 | 6.3 | - | 1.6 | - | - | - | - | - | - | - | - |
| Saanich Inlet | 262 | 66.0 | 20.2 | 8.4 | 2.7 | 1.9 | .4 | .4 | - | - | - | · | - | - | . . B |
| Sooke | 818 | 70.3 | 20.2 | 7.7 | 1.2 | .5 | .1 | - | - | · _ | - | - | - | - | .1 |
| Vancouver | 73 | 60 .3 | 16.4 | 12.3 | 5.5 | 1.4 | 2.7 | - | 1.4 | - | - | - | | - | - |
| West Vancouver | 392 | 69.9 | 16.6 | 7.1 | 3.6 | .8 | 1.3 | .5 | - | - | - | - | - | .3 | .3 |
| Victoria | 130 | 80.0 | 9.2 | 7.7 | 2.3 | .8 | - | - | - | - | - | - | - | - | - |
| Sidney | 67 | 73.1 | 20 5 9 | 4.5 | - | - | - | - | - | · _ | - | 1.5 | - | - | - |
| Total | 4,720 | 49.3 | 19.2 | 11.0 | 6.0 | 5.6 | 2.2 | 1.7 | 1.4 | 2.2 | .3 | .3 | .2 | .6 | 3.9 |

(1) Refers to % of boat trips where the number of Salmonids in creel was equal to or greater than four per person.

R-13

.

.

R-14

TABLE R-13: DISTRIBUTION OF SALMONID CATCH FROM GEORGIA STRAIT CREEEL SURVEY RAW DATA, ALL REGIONS.

| | | No. of Interviews | | | | | | | | | | | | | | 🕯 of Boat 1 | |
|----------|------|----------------------|--------|------|------|------|-----|-----|------|-----|-----|-----|----|----------------|------|-----------------|-----------|
| onth | | (Boat Trips) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12+ | With Limit of S | Salmonids |
| uly | 1980 | 12,517 | 49.6 | 19.0 | 11.1 | 7.1 | 5.0 | 2.3 | 1.9 | 1.3 | 1.7 | .2 | .2 | .1 | .5 | 2.4 | · · |
| ugust | 1980 | 10,199 | .55.5 | 20.4 | 10.4 | 5.6 | 3.7 | 1.4 | 1.1 | .6 | .8 | .1 | .1 | .1 | .2 | 1.5 | |
| eptember | 1980 | 3,337 | ∍ 54.2 | 21.3 | 10.6 | 5.8 | 3.4 | 2.0 | 1.1 | .5 | .6 | .1 | .1 | - | . 3 | . 1.3 | |
| ctober | 1980 | 2,129 | 57.6 | 19.1 | 10.1 | 5.2 | 3.6 | 1.5 | 1.0 | .6 | .9 | .1 | .1 | .1 | .1 | 2.2 | • |
| ovember | 1980 | 533 | 50.8 | 18.6 | 8.8 | 7.5 | 6.2 | 2.8 | .9 | .2 | 3.2 | - | .6 | - | .4 | 5.8 | |
| ecember | 1980 | 407 | 42.8 | 17.2 | 13.5 | 10.8 | 7.9 | 2.7 | 1.5 | 1.2 | 2.0 | . 2 | .2 | - . | · 🕳 | 6.4 | |
| anuary | 1981 | 1,123 | 47.5 | 16.5 | 10.9 | 8.4 | 7.6 | 2.5 | 1.8 | 1,1 | 2,9 | .1 | - | .2- | .5 | 5.9 | |
| ebruary | 1981 | 945 | 52.7 | 18.6 | 9.7 | 8.6 | 4.1 | 1.6 | 1.4 | .6 | 1.9 | .1 | -' | .1 | .6 | 3.8 | |
| arch | 1981 | 805 | 60.6 | 15.4 | 10.3 | 4.7 | 4.7 | 1.7 | • .6 | .4 | 1.0 | .4 | - | .1 | • .1 | 3.0 | |
| pril . | 1981 | 733 | 61.6 | 17.5 | 10.2 | 4.8 | 2.7 | 1.8 | .5 | .4 | - | - | .1 | - | .4 | , .8 | |
| ay | 1981 | 3,387 | 48.6 | 19.0 | 11.6 | 7.5 | 5.5 | 2.3 | 1.9 | .6 | 2.3 | .3 | .1 | - | .3 | . 3.7 | |
| une | 1981 | 4,720 | 49.3 | 19.2 | 11.0 | 6.0 | 5.6 | 2.2 | 1.7 | 1.4 | 2.2 | .3 | .3 | .2 | .6 | 3.9 | |
| TOTAL | | 40,835 | 52.1 | 19.4 | 10.8 | 6.5 | 4,6 | 2.0 | 1.5 | .9 | 1.5 | .2 | .1 | - | .4 | 2.5 | |

٠

(1) Refers to **** of boat trips where the number of Salmonids in creel was equal to or greater than four per person.