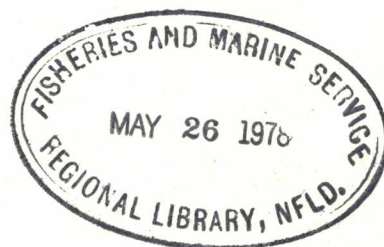


Index to the Pacific Biological Station Archives

K. S. Simpson, J. R. Carmichael, and C. Groot

Pacific Biological Station
Resource Services Branch
Nanaimo, British Columbia V9R 5K6



February 1978

Fisheries & Marine Service Manuscript Report No. 1443



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Service des pêches et des sciences de la mer

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Ces rapports contiennent des renseignements scientifiques et techniques qui constituent une contribution importante aux connaissances actuelles mais qui, pour une raison ou pour une autre, ne semblent pas appropriés pour la publication dans un journal scientifique. Ils se distinguent des Rapports techniques par la portée du sujet et le lecteur visé; en effet, ils s'attachent principalement à des problèmes d'ordre national ou régional et la distribution en est généralement limitée aux organismes et aux personnes de régions particulières du Canada. Il n'y a aucune restriction quant au sujet; de fait, la série reflète la vaste gamme des intérêts et des politiques du Service des pêches et de la mer, notamment gestion des pêches; techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les Manuscrits peuvent être considérés comme des publications complètes. Le titre exact paraît au haut du résumé de chaque rapport, qui sera publié dans la revue *Aquatic Sciences and Fisheries Abstracts* et qui figurera dans l'index annuel des publications scientifiques et techniques du Service.

Les numéros de 1 à 900 de cette série ont été publiés à titre de manuscrits (Série biologique) de l'Office de biologie du Canada, et après le changement de la désignation de cet organisme par décret du Parlement, en 1937, ont été classés en tant que manuscrits (Série biologique) de l'Office des recherches sur les pêcheries du Canada. Les numéros allant de 901 à 1425 ont été publiés à titre de manuscrits de l'Office des recherches sur les pêcheries du Canada. Le nom de la série a été changé à partir du rapport numéro 1426.

La page couverture porte le nom de l'établissement auteur où l'on peut se procurer les rapports sous couverture cartonnée.

Fisheries and Marine Service
Manuscript Report 1443

February 1978

INDEX TO THE PACIFIC BIOLOGICAL STATION ARCHIVES

by

K. S. Simpson, J. R. Carmichael, and C. Groot

Pacific Biological Station
Fisheries and Marine Service
Resource Services Branch
Nanaimo, British Columbia V9R 5K6

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The authors would like to thank the following people who struggled to organize what was, in many cases, virtually unclassifiable volumes of material:

Madeline Sherry
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Sue Harder.

ABSTRACT

Simpson, K. S., J. R. Carmichael, and C. Groot. 1978. Index to the Pacific Biological Station archives. Fish. Mar. Serv. MS Rep. 1443: 95 p.

An archives has been established at the Pacific Biological Station, Nanaimo, B.C., to make unpublished and original data safe and accessible. The archives presently comes from P.B.S. salmon investigations only. Access is by permission of the original investigator or the Director. This report provides a storage location index for material which is described by species, life stage, geographic area, and date.

Key words: Index, Archives, Salmon Studies, British Columbia.

RÉSUMÉ

Simpson, K. S., J. R. Carmichael, and C. Groot. 1978. Index to the Pacific Biological Station archives. Fish. Mar. Serv. MS Rep. 1443: 95 p.

La station de biologie du Pacifique de Nanaimo, en C.-B., a mis sur pied un service d'archives afin d'assurer la conservation des données et de les rendre accessibles. Actuellement, seuls les résultats de ses recherches sur le saumon y figurent. Pour les consulter, il faut obtenir la permission du chercheur qui les a fournis ou du directeur. Le présent rapport renferme un index de rangement des données classées selon l'espèce, le stade de vie, l'aire géographique et la date.

Mots clés: Index, documentation, recherches sur le saumon, Colombie-Britannique.

INTRODUCTION

There is a large amount of unpublished and original data at the Pacific Biological Station, Nanaimo, B.C., collected in the course of studies on Pacific salmon. Its nature and many locations have never been documented, making much of it inaccessible. Several instances have occurred where valuable data have been lost. These are the reasons for the formation of an archives and the production of this index.

The immediate goal is to index and store in one location all data, notes, diaries, etc., from past and present Station salmon investigations once the authors are no longer actively using it. Since this project was initiated by the Salmon Enhancement Group, the present data is confined to salmon studies. We hope that all aspects of Station work will be included eventually. The long-range objective is to incorporate some of the material into a computer data acquisition-retrieval system which would include data from all Pacific Region fisheries agencies, federal and provincial.

The archives are in the storage area in the basement of the Taylor Building. Until formal arrangements have been made and a Station policy set, access and use of the data will be by permission of the investigator. Permission of the Director, Pacific Biological Station, is required if the investigator is no longer available. Some data collected by Station investigators came from other sources, e.g., Fisheries Operations and U.S.A. fisheries agencies. In this case, the usual rules for use of scientific material apply. Borrowed documents must be signed out and their location marked with an out-file card.

INDEX GUIDE

The index is arranged in nine sections: a "Salmon - General" section written in narrative format; one section for each salmon species (arranged alphabetically); one section for "Other Fish Species"; a section with environmental and invertebrate sampling data; and finally, a section containing miscellaneous information (e.g., diaries). The material within each section is grouped by broad geographic area in the following order:

- Skeena River
- North and Central Coast
- Vancouver Island
- Southern Mainland
- Fraser River
- B.C. Coast - General
- Alaska
- Continental U.S.A.
- Asia
- High Seas

It is important to realize that (1) the archives material remains as it was originally placed in storage by the authors, i.e., there has been no rearrangement of files to consolidate material; and (2) the records often made it impossible to obtain an accurate description. Consequently, we advise the user to examine any data with an index entry approximately corresponding to what he is looking for. The author, if available, may be able to help him identify the data and assess its usefulness.

Concerning the material located in offices, this is only the salmon material which investigators have listed with the archives. Much more data exists at the Pacific Biological Station pertaining to salmon.

SALMON - GENERAL

1875 - 1876

SALMON - GENERAL

HIGH SEAS SALMON DATA

Contact person: K. V. Aro

1. INPFC documents

An almost complete set of INPFC documents by Japan, United States, and Canada on Pacific salmon in the North Pacific Ocean is stored in the Library.

2. High seas salmon catch and tag release data by Canada, 1956-1967

This includes:

- (a) Computer cards for each salmon caught by longline and gillnet from 1960 to 1967 - in Computer Centre.
- (b) Printouts of (a) - in the INPFC file and Room C263.
- (c) Summary cards of numbers of salmon caught and tagged by set - in Computer Centre.

The data are being published in many new joint comprehensive INPFC reports and have been published in various MS reports.

3. Recovery data from high seas tagging by Canada, Japan, and the United States, 1956-1975

Computer cards and magnetic tape of tag recoveries in years 1955 to 1975 are stored in the Computer Centre. The data are published in:

- (a) INPFC documents by each nation.
- (b) MS reports by Aro et al. and Aro.
- (c) INPFC joint comprehensive reports (in preparation).

4. Japanese mothership catches of salmon on the high seas from 1951 onward

This information can be found in:

- (a) INPFC Statistical Yearbooks.
- (b) Computer cards in the Computer Centre.
- (c) Printouts by species, high seas area, and time period - Room C263.

5. Meristics and scale studies, 1965-1967

A set of original records including about 20 boxes of X-ray plates are stored in the basement of the Taylor Building. The data have been key-punched onto a set of meristics cards and a matching set of scale cards.

Both sets can be found in the Computer Centre. The data have not been published.

6. Histological studies of gonads from salmon sampled on the high seas

This work was started by Nancy Parker but never completed or published. Slides are stored in the basement of the Taylor Building and Computer printouts pertaining to her studies are filed in C263.

PARASITES OF SALMON

Contact persons: L. Margolis,
N. Boyce

Data has been collected on the parasites of approximately 13,000 sockeye and 2,000 pinks during various stages of their life histories, mainly from North America and the high seas (1955-1959 for sockeye and 1955-1957 for pinks).

All the data is on hand-sort punch cards and tabulated by sample session on summary sheets. It has been partially summarized and analyzed in MS Reports No. 624, 658, 687, and 703; and in INPFC Documents No. 115, 216, 250, 303, and 409.

STOCK ASSESSMENT AND RACIAL STUDIES

Contact persons: H. T. Bilton,
D. W. Jenkinson

1. Age, size, and sex composition of sockeye, pink, and chum salmon in commercial catches, 1957-1972

This includes:

- (a) Raw data - in the basement of the Taylor Building.
- (b) Computer cards - in the Computer Centre.
- (c) Annual MS Reports from 1957 to 1972.

2. Scale impressions and associated data for all salmon species from various Alaska coastal areas, 1956-1966

Copies of the original data are in the basement of the Taylor Building.

3. Scale cards and associated data for all species of salmon caught by Canadian, Japanese, and American high seas fishing, 1956-1972

Duplicate or original data are in the basement of the Taylor Building.

INSHORE SALMON TAGGING

Contact person: K. V. Aro

1. Areas 3-5 for 1944 to 1958

This includes all species except in 1944 when only sockeye were tagged. The data are accessible through:

- (a) Progress Reports of Pacific Coast Stations by Pritchard and Milne.
- (b) File cards for recoveries in the earlier years and computer cards for later years. Printouts are also available.
- (c) MS Report No. 984.

2. Alaska District 4, 1957-1958

This includes all species of salmon. We have computer cards and printouts of the recoveries.

SALMON CATCH STATISTICS

Contact person: K. V. Aro

B.C. Catch Statistics volumes from 1951 to the present time are located in Room C263. An incomplete time series of annual summaries of Conservation Measures in B.C. fishing areas is also available in Room C263.

SALMON SPAWNING STREAM SURVEY RECORDS

Contact person: K. V. Aro

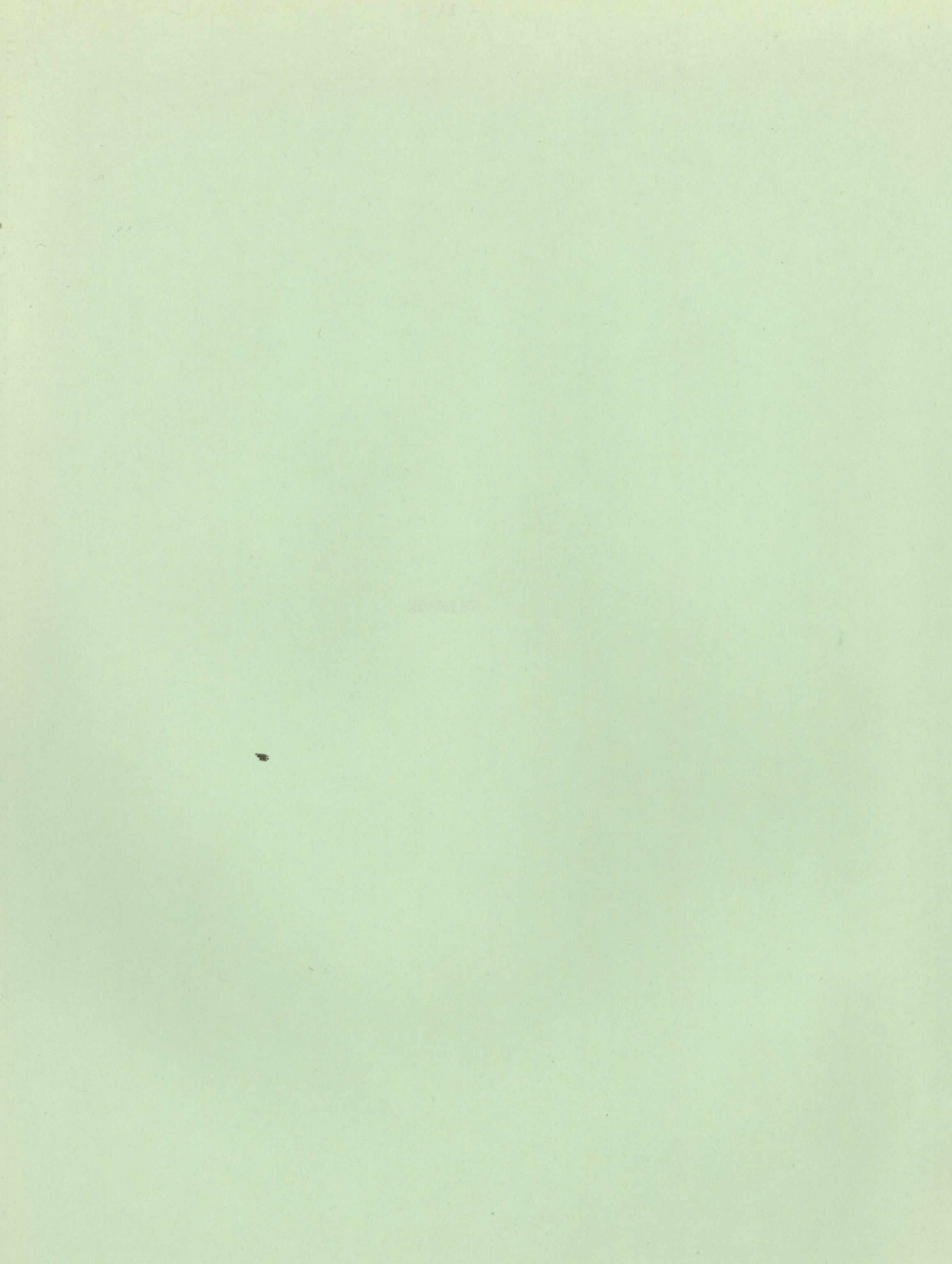
1. Salmon streams and spawning reports (forms B.C. 16 and F3481), 1951-1976

These are filed by area in the basement of the Clemens Building.

2. Summary tabulations by area, stream, and species, 1951-1975

These are also filed in the Basement of the Clemens Building.

CHINOOK



CHINOOK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>SKEENA RIVER</u>					
Ages of tagged salmon	Skeena	48	M	Bil	1
Ages, scale characters, lengths/weights for test fishing program	Skeena	56 58-63	M	Bil	1,9
Fence counts	Babine fence	46-71	M	Smi	6,7
Jack spring counts	Babine fence	50	M	Smi	6
Daily counts	Babine fence	50	M	Smi	6
Marks sighted	Babine system	50	M	Smi	6
Jack counts	Babine system	50	M	Smi	6
Length and sex data, dead recovery sampling data	Babine fence	52	M	Smi	6
Dead on fence, sampling data, size, % spawned, condition	Babine fence	52-53	M	Smi	6
Mark record data, sampling data, daily observation logs	Babine system	51	J	Smi	6
Ages of tagged salmon	Babine	58	M	Bil	11
Escapement survey counts	Kitwanga R.	58-65	M	Gen	2
Fence counts	Kitwanga R.	60	M	Gen	2
<u>NORTH AND CENTRAL COAST</u>					
Tagging programs - scale characters, lengths/ weights	North Coast	58	Y,M	Bil	2

CHINOOK

Description	Area	Years	Maturity	Investigator	Box no.
Juvenile samples - scale characters, lengths/weights	Area 4	57	J	Bil	2
Tagging programs - scale characters, lengths/weights	Pr. Rupert	53-54	Y,M	Bil	10
Weekly sampling summaries	Pr. Rupert	64-65	Y,M	God	2, 11
Biological sample sheets	Pr. Rupert	64-67	Y,M	God	1-2 4-5
Mark recovery illustrations	Pr. Rupert	67	Y,M	God	5
Mark recovery logs	Pr. Rupert	64-67	Y,M	God	3-5
Scale reading	Hook Nose Cr.	63	Y,M	Par	1
Age composition of sport catch	Rivers Inlet	51-55	Y,M	Bil	10
Weekly sampling summaries	Namu	64-65	Y,M	God	11
Mark recovery logs and forms	Namu	65-68	Y,M	God	1 3-7
Mark illustrations	Namu	68	Y,M	God	8
Biological sample sheets	Namu	64-68	Y,M	God	1-2 5,7

VANCOUVER ISLAND

Tagging programs - scale characters, lengths, weights	Georgia Strait	56-57	Y,M	Bil	10
Tagging programs - scale characters, lengths, weights	Juan de Fuca	57-58	Y,M	Bil	2

- 15 -
CHINOOK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Juvenile scale identifi- cation	Porlier Pass	64-68	J	Bil	15
Juvenile scale identifi- cation	Qualicum	64-68	J	Bil	15
River trap records	Cowichan R.	65	J	God	9
Weight and length records	Cowichan Bay	65	J	God	9
Graphs, number of fry/ day, temperature/day. Weight/date	Cowichan Bay	65	J	God	9
Catch records from sport fishing	Cowichan R.	65	M	God	9
Research catch records	Cowichan R. & Bay	65,67	A	God	9
Catch records from purse seining	Cowichan Bay	66,67	A	God	9
Seine catch, fry sample data	Cowichan R.	67	J	God	9
Aging data	Cowichan R.	67	M	God	9
Weights, lengths, etc.	Cowichan R. & Bay	66-67	J	God	9
Marking programs - marking data	Cowichan R. & Bay	65,67	J	God	9
Marking programs - sport catch marking forms	Cowichan, Saanich	66-67	Y,M	God	9
Juvenile scale identifi- cation	Estevan Pt.	64-68	J	Bil	15
Juvenile samples	West Vancouver Island	68	J	Bil	8

CHINOOK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Circulus formation vs. age and size of parents, feeding/starvation, size of eggs and fry	Rosewall Cr.	71-72	A	Bil	5
Weekly sampling summaries - selected markings	Victoria	64	Y,M	God	4
Biological sample sheets	Barkley Sound	64	Y,M	God	2

SOUTHERN MAINLAND

Tagging programs - scale characters, lengths/ weights	Vancouver	53-54	Y,M	Bil	10
Biological sample sheets	Vancouver	64-68	Y,M	God	1-2 5,7
Mark recovery logs and forms	Vancouver	64-68	Y,M	God	1 3-7
Weekly sampling summaries	Vancouver	65	Y,M	God	2
Mark illustrations	Vancouver	68	Y,M	God	8
Selected marks	Vancouver	68	Y,M	God	7

FRASER

Fence counts	Cultus Lake	32-35	M	Gen	3
Juvenile scale identifi- cation	Mission	64-68	J	Bil	15
Escapement samples - scale characters, lengths/ weights	Fraser	56-57 59	M	God	1 9-10
Test fishing - scale characters, lengths, weights	Fraser	66	M	Bil	7

CHINOOK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Composition of freshwater ages	Fraser	66	M	Bil	7
<u>B.C. COAST - GENERAL</u>					
Length and weight data, size composition	B.C.	51-53 57-58	Y,M	Bil	10
Commercial catches - ages, scale characters, lengths/ weights	B.C.	50-63	Y,M	Bil	2-5 9-10
Monthly and annual catch stat. from sport fishing	B.C.	53-55	Y,M	Bil	10
Monthly and annual catch stat. from commercial fishing	B.C.	51-59	Y,M	Bil	10
Sampling summaries for commercial catches	B.C.	58-60 63-71	Y,M	Bil	2-3 5-8
Tests of differences of scale characters between stocks	B.C.	66-67	M	Bil	19
<u>ALASKA</u>					
Tag failure associated with a net fishery as a source of experimental error	Taku	61	M	Par	7
Tests of differences of scale characters between stocks	Alaska	66-67	M	Bil	19
<u>CONTINENTAL U.S.A.</u>					
Test fishing - scale characters, lengths/weights	Columbia	64	M	Bil	6
Juvenile scale identifi- cation - F.R.I.	U.S.A.	64-68	J	Bil	15

CHINOOK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Washington State spring data	Washington	50,51	M	Par	6
<u>HIGH SEAS</u>					
Tagging programs - scale characters, lengths	High seas	57 60-61	Y,M	Bil	2,12
F.R.I. age summaries	High seas	62-67	Y,M	Bil	12
U.S.A. sampling data	High seas	59	Y,M	Bil	14
U.S.A. release data	High seas	61	Y,M	Bil	14
Canadian daily tagging records with ages for "Sea Queen"	High seas	66-67	Y,M	Bil	12-13
"Canadian No. 1"	High seas	66	Y,M	Bil	12
"G.B. Reed"	High seas	65-67	Y,M	Bil	12
Canadian fishing data	High seas	57	Y,M	Bil	14
Recovery data	High seas	55,57 59-60 64-65	Y,M	Bil	14
High seas tagging program - age and sampling data from "G.B. Reed" parasite studies	High seas	68	Y,M	Bil	8
<u>MISCELLANEOUS</u>					
Concept of growth in fishes - MS		59	A	Par	7

CHUM

CHUM

Description	Area	Years	Maturity	Investigator	Box no.
<u>SKEENA RIVER</u>					
Stream survey cards	Skeena area	19-49	M	Gen	10,11
Ages of tagged salmon	Skeena	48	M	Bil	1
Ages of tagged salmon	Skeena test fishing	56	M	Bil	1
Ages, scale characters, lengths/weights, etc., from test fishing	Skeena	56,65	M	Bil	1,6
Age analysis of escapements	Skeena area	64-66	M	Bil	10
Fry observations, catches	Lower Skeena (Kwinitsa)	56-58	J	Gen	3
Fry output estimates	Lakelse	56-63	J	Gen	2
Fry netting counts	Kalum R.	56	J	Gen	3
Fry output estimates	Kispiox	58	J	Gen	2
Tagging and ocean tag recovery data	Moricetown Falls	46-47	M	Aro	1
Scale sampling record	Moricetown Falls	46-47	M	Aro	1
Analysis of Indian gaffing success	Moricetown Falls	46-47	M	Aro	1
Spot counts of salmon migration	Moricetown Falls	46-47	M	Aro	1
Daily catch and effort data	Moricetown Falls	46-47	M	Aro	1
Daily counts	Babine fence	46-47, 52	M	Smi	6
Ages of tagged salmon	Babine	58	M	Bil	11
Ocean tag recovery	Bear L. area	47	M	Aro	1

CHUM

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>NORTH AND CENTRAL COAST</u>					
Ages, scale characters, lengths, weights, from tagging programs	North & Central B.C. coast	58,64	M	Bil	2,6
Some approaches to the study of pink and chum salmon - MS	Bella Coola area	49-51	A	Par	7
Quality of marks	Bella Coola area	61	J	Par	5
Sampling data	Bella Coola area	61	J	Par	5
Stomach analyses	Bella Coola area, Fitzhugh Sd.	62-63	J	Par	1,5
Lengths, weights	Bella Coola area, Port John, Matthew Is.	61,63	J	Par	1, 4-5, 7
Copepod infections	Bella Coola area	63	J	Par	1
Two-boat trawl data	Bella Coola area	64	J	Par	4
Fry sampling	Bella Coola R.	65	J	Par	2
Coho predation	Bella Coola area	66-67	J	Par	3
Fortran program to analyse predation data	Bella Coola area	66	J	Par	3
Coho size selection	Bella Coola	67	J	Par	3
Before and after lengths for predator/prey experiments	Burke Channel	67	J	Par	3

CHUM

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Age composition	Port John	47-49	M	Par	6
Life expectancy in stream and percent sea survival	Port John	50-62	A	Par	6
Salmon and other fish catches	Hook Nose Cr.	45-51	A	Par	6
Freshwater survival	Hook Nose Cr.	47-56	J	Par	7
Fecundity samples	Hook Nose Cr.	47-62	M	Par	6
Fry and adult counts	Hook Nose Cr. Tally Cr.	47-62	J,M	Par	6
Fry distribution	Hook Nose Cr. Tally Cr.	52-54	J	Par	6
Redd sampling	Hook Nose Cr. Salloomt R.	59-63 65	J	Par	1-2, 6
Alaska Dep. Fish. Wildl. survey	Dixon Entrance Hecate Str.	65	J	Par	2
Fence counts	Hook Nose Cr.	48-52 54-61	J	Gen	1
Fence counts	Tally Cr.	49-51 52-60	J	Gen	1
Egg retention, life expectancy studies	Tally Cr. Hook Nose Cr.	67	M	Gen	1

VANCOUVER ISLAND

Age, scale characters, lengths, weights	Vancouver Island	46	M	Bil	1
Age, scale characters, lengths, weights from stream surveys	West Vancouver Island	49	M	Bil	1

CHUM

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Catches	Cowichan R. & Bay	65-67	J	God	9
Weights, lengths, etc.	Cowichan R. & Bay	65	J	God	9
Juvenile scale identi- fication	Qualicum, Porlier Pass	64-68	J	Bi1	15
Ages, scale characters, lengths, weights from juvenile samples	Southeast Vancouver Island	65,68	J	Bi1	6,8
<u>FRASER</u>					
Fence counts, size, sex, mark recovery data	Cultus L.	32-35	M	Gen	3
Juvenile scale identification	Mission	64-68	J	Bi1	15
<u>B.C. COAST - GENERAL</u>					
Commercial catches - ages, scale characters, lengths, weights	B.C. coast	47-48 50,53 55-72	M	Bi1	1-9
Racial studies	B.C. coast	55-66	M	Bi1	21
Age summaries	B.C. coast	58	M	Bi1	5
Sampling summaries from commercial catches	B.C. coast	58-60 63-71	M	Bi1	2-3 5-8
Tests of differences in scale characters between stocks	B.C. coast	63-66	M	Bi1	19
Investigation of B.C. chum	B.C. coast	66	A	Par	7
<u>ALASKA</u>					
Racial studies	Alaska	55-66	M	Bi1	21

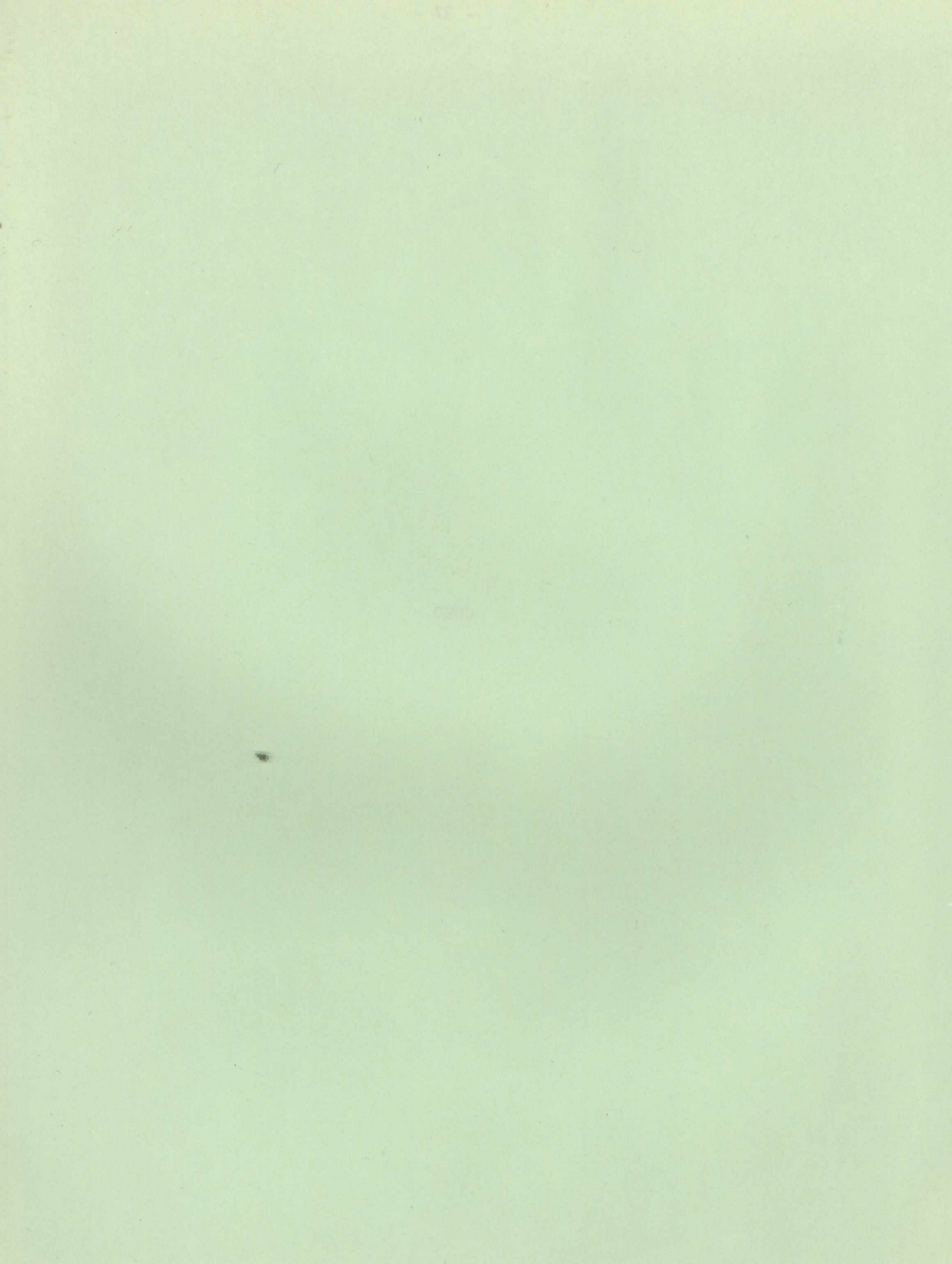
CHUM

Description	Area	Years	Maturity	Investigator	Box no.
Ages, scale characters, lengths, weights, etc., from commercial catches	Alaska	57	M	Bil	2
Tests of differences of scale characters between stocks	Alaska	63-66	M	Bil	19
<u>CONTINENTAL U.S.A.</u>					
Juvenile scale identification - F.R.I.	U.S.A.	64-68	J	Bil	15
<u>HIGH SEAS</u>					
Racial studies	North Pacific	55-66	Y	Bil	21
Racial studies	Bering Sea	55-66	Y	Bil	21
Ages, scale characters, lengths/weights from tagging programs	High seas	56-66	Y,M	Bil	1-3 12 14
Scale data and frequency table	High seas	56-57	Y	Bil	22
Length and weight, stomach contents - Ocean Station PAPA catches	50°N 145°W	65-66 71-72	Y	Bil	6,9
High seas tagging program - age and sampling data					
- "G.B. Reed" parasite studies	High seas	68	Y,M	Bil	8
- F.R.I. age summaries	High seas	62-67	M	Bil	12
- F.R.I. release and recovery data	High seas	58-61	A	Bil	14
Canadian fishing data	High seas	57	Y,M	Bil	14
Recovery data	High seas	55,57 59-60 64-65	Y,M	Bil	14

CHUM

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>ASIA</u>					
Ages, scale characters, lengths/weights from escapement samples	Toku R. Chitose R. (Japan)	56	M	Bil	18

СОНО



COHO

Description	Area	Years	Maturity	Investigator	Box no.
<u>SKEENA RIVER</u>					
Ages of tagged salmon	Skeena	48	M	Bil	1
Stream survey cards	Skeena area	19-49	M	Gen	10,11
Ages of tagged salmon, scale characters, lengths, weights from test fishing	Skeena test fishing	56-62	M	Bil	1-5
Tag recovery, escapement records	Lower Skeena mainstream	58-59	M	Gen	3
Tagging records	Lower Skeena	60	M	Gen	3
Aerial photos (negatives) of spawners	Lower Skeena	62	M	Smi	1
Fry trapping, counts	Lakelse R.	56-63	J	Gen	2
Double netting at different depths	Lakelse R.	58-61	J	Gen	2
Fry netting counts	Kalum R.	56	J	Gen	3
Double netting at different depths	Kitwanga	58-61	J	Gen	2
Double netting at different depths	Kisplox	58-61	J	Gen	2
Escapement (fence counts)	Kitwanga	60	M	Gen	2
Tagging and ocean tag recovery data	Moricetown Falls	46-47	M	Aro	1
Scale sampling records	Moricetown Falls	46-47	M	Aro	1

COHO

Description	Area	Years	Maturity	Investigator	Box no.
Analysis of Indian gaffing success	Moricetown Falls	46-47	M	Aro	1
Spot counts of salmon migration	Moricetown Falls	46-47	M	Aro	1
Daily catch and effort data	Moricetown Falls	46-47	M	Aro	1
Aerial photos (negatives) of spawners	Morice R.	62	M	Smi	1
Aerial photos (negatives) of spawners	Upper & Lower Babine R.	62	M	Smi	1
Daily counts	Babine fence	46-47 52	M	Smi	6
Dead recovery, sampling data, % spawned, size, condition	Babine fence	52	M	Smi	6
Ages of tagged salmon	Babine	58	M	Bil	11
Netting and marking records	Babine	44	M	Bil	1
Maternal influence vs. hatching time	Babine	71	J	Bil	15
Counts	Morrison R.	65	M	Smi	7
Fence counts	Six Mile Cr.	50-51	M	Aro	1
Fence counts of fry	Six Mile Cr.	51	J	Aro	1
Ocean tag recovery	Bear L.	47	M	Aro	1

COHO

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>NORTH AND CENTRAL COAST</u>					
Age, scale characters, lengths, weights, etc., from tagging programs	North coast	58	Y,M	Bil	2
Ages, scale characters, lengths, weights, etc., from juvenile samples	Area 4	57	J	Bil	2
Salmon tagging data	Chatham Sound	56-58	M	Aro	Office
Size composition	Pr. Rupert	52-53	Y,M	Bil	10
Marking programs - weekly sampling summaries	Pr. Rupert	64-65	Y,M	God	11
Marking programs - mark recovery forms and logs	Pr. Rupert	64-65 67	Y,M	God	11,12
Marking programs - biological sample sheets	Pr. Rupert	65	Y,M	God	11
Catch data	Bella Coola Bella Bella	30-48	M	Par	6
Stomach analysis	Bella Coola area	62-63 65	J	Par	1,2 5
Predation on pink and chum	Bella Coola area	65-67	J	Par	2,3
Pink/coho model	Burke Channel	67	J	Par	3
Marking programs - mark illustrations	Namu	65	Y,M	God	11
Marking programs - weekly sampling summaries	Namu	64-65	Y,M	God	11

COHO

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Marking programs - mark recovery logs and forms	Namu	64-67	Y,M	God	11,12
Marking programs - biological sample sheets	Namu	65	Y,M	God	11
Redd digging	Port John	63	J	Par	1
Daily counts	Hook Nose Cr.	47-62	J	Par	6
Fecundity samples	Hook Nose Cr.	47-55	M	Par	6
Fry counts and marking	Hook Nose Cr.	48-55 61	J	Par	6
Adult migration counts	Tally Cr.	48-60	M	Par	6
Predation by smolts	Hook Nose Cr.	61	J	Par	6

VANCOUVER ISLAND

Fry counted	Nile Cr.	48-54	J	Wic	Office
Yearlings counted	Nile Cr.	48-54	J	Wic	Office
Adults and jacks counted	Nile Cr.	48-54	M	Wic	Office
Fry counted	Chef Cr.	61-65	J	Wic	Office
Stomach analysis	Chef Cr.	62-63	J	Wic	Office
Smolts counted	Chef Cr.	62-65	J	Wic	Office
Underyearling production	Chef Cr.	62	J	Wic	Office
Length distribution, scales, counts, tagging data	Chef Cr.	61-65	J	Wic	Office
Records of incubation experiments for artificial propagation	Nanaimo	56-57	J	Gen	3

COHO

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Ages, scale characters, lengths, weights, etc., from escapement samples	Vancouver Island	57	M	Bil	9
Marking programs - mark recovery logs and forms	Victoria	64-65	Y,M	God	11
Juvenile scale identifi- cation	Porlier Pass	64-68	J	Bil	15
Juvenile scale identifi- cation	Qualicum	64-68	J	Bil	15
Catch records from:					
-purse seine operations	Cowichan Bay	66	J,Y	God	9
-sport fishing	Cowichan Bay	66	Y,M	God	9
-research samples	Cowichan R.	65,67	J	God	9
Weights, lengths, etc.	Cowichan R.	65,67	J	God	9
River trap records, weight, length records	Cowichan R.	65	J	God	9
Marking data	Cowichan B.	66-67	J	God	9
Juvenile samples	West Vancouver Island	68	J	Bil	8
Maternal influence vs. hatching time	Rosewall Cr.	71	J	Bil	15
Fish population studies	Carnation Cr.	71-76	A	Scr	Office
Fry trapping and sampling	Lymn Cr.	71-73	J	Mas	Office
Smolt trapping and sampling	Lymn Cr.	71-73	J	Mas	Office
Adults sampled	Lymn Cr.	71-73	M	Mas	Office
Juvenile scale identifi- cation	Estevan Point	64-68	J	Bil	15

COHO

Description	Area	Years	Maturity	Investigator	Box no.
<u>SOUTHERN MAINLAND</u>					
Marking programs - weekly sampling summaries	Vancouver	64-65	Y,M	God	11
Marking programs - mark recovery logs and forms	Vancouver	64-65 67	Y,M	God	11,12
Marking programs - mark illustration	Vancouver	65	Y,M	God	11
<u>FRASER</u>					
Fence counts	Cultus L.	32-35	M	Gen	3
Size composition	Fraser & Juan de Fuca	57-59	Y,M	Bil	10
Records of incubation experiments for artificial propagation program	Cultus L.	56-57	J	Gen	3
Juvenile scale identifi- cation	Mission	64-68	J	Bil	15
Maternal influence vs. hatching time	Stellako	71	J	Bil	15
<u>B.C. COAST - GENERAL</u>					
Ages, scale characters, lengths, weights, etc., from tagging programs	South coast	50 56-58	Y,M	Bil	2 9-10
Ages, scale characters, lengths, weights, from commercial catches	B.C.	50-64 68	Y,M	Bil	1-6 9-10
Monthly and annual catch stat. from commercial fishing	B.C.	51-59	Y,M	Bil	10

COHO

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Monthly and annual catch stat. from sports fishing	B.C.	53-55	Y,M	Bil	10
Ages, scale characters, lengths, weights, etc., from viscera sample data	B.C. coast	64-65	Y,M	Bil	1
<u>ALASKA</u>					
Length, sex, age data	Alaska Area 61 Stikine R.	52	M	Smi	10
<u>CONTINENTAL U.S.A.</u>					
Ages, scale characters, lengths, weights, etc., from juvenile samples	U.S.A.	59,68	J	Bil	9
Juvenile scale identifi- cation - F.R.I.	U.S.A.	64-68	J	Bil	15
<u>HIGH SEAS</u>					
Recovery data	High seas	55,57 64-65	Y,M	Bil	14
Ages, scale characters, length, weights, etc., from tagging programs	High seas	56-62	Y,M	Bil	2-3 5,10 12,14
Canadian daily tagging records with ages for					
- "Sea Queen"	High seas	66-67	Y,M	Bil	12-13
- "Canadian No. 1"	High seas	66	Y,M	Bil	12
- "G.B. Reed"	High seas	65-67	Y,M	Bil	13
F.R.I. age summaries	High seas	62-67	Y,M	Bil	12
F.R.I. tagging data -					
- "California Rose"	High seas	58	Y,M	Bil	14
- "Commander"	High seas	64	Y,M	Bil	15

COHO

Description	Area	Years	Matur- ity	Investi- gator	Box no.
U.S.A. sampling data	High seas	59	Y,M	Bil	14
U.S.A. release data	High seas	61	Y,M	Bil	14
Ages, scale characters, lengths, weights, stomach analyses, etc., from Ocean Station PAPA catches	50°N 145°W	62-63	Y,M	Bil	5,6 9

PINK

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>SKEENA RIVER</u>					
Stream survey cards	Skeena area	19-49	M	Gen	10-11
Skeena discharge records at Usk vs. pink returns	Skeena R.	28-58	M	Gen	2
Ages of tagged salmon	Skeena	48	M	Bil	1
Ages, scale characters, lengths, weights, etc., from test fishing	Skeena test fishing	55,57 65-66	M	Bil	1-2 6,11
Escapement samples, ages, scale characters, lengths, weights	Skeena	56,64	M	Bil	11,18
Length data	Skeena R.	59,61 64	M	Smi	4
Fry observations, catches	Lower Skeena (Kwinitsa)	56-58	J	Gen	3
Aerial spawner counts	Lower Skeena	59-60	M	Gen	2
Skeena pink salmon activity reports	Skeena area	56-58	M	Gen	2
Escapement and analysis of escapement	Skeena area	64-66	M	Smi	10
Annual escapement summaries	Major Skeena spawning streams	50-56	M	Gen	2
Spawning potentials	Lower Skeena	46-47	M	Gen	2
Tagging records	Lower Skeena	60	M	Gen	3

PINK

Description	Area	Years	Maturity	Investigator	Box no.
Summary of effects on pinks of proposed dredging - Jan., 1965, report	Lower Skeena mainstream	62-65	A	Gen	3
Field notes, set records, aerial surveys, tagging records, hypural lengths, sex composition, gillnet construction details and river conditions	Lower Skeena mainstream	63-65	M	Gen	3
Annual summaries of results of Skeena mainstream studies, e.g., escapement numbers, timing estimates, locations	Lower Skeena	62-64	M	Gen	3
Aerial photos and negatives of spawners	Major Skeena streams	62	M	Smi	1
Escapement estimates and size/sex data	Lakelse R.	55	M	Gen	1
Spawner counts and estimates on streams, tag recovery	Lakelse R.	63-64	M	Gen	2
Summary of fry output/survivals	Lakelse R.	56-60	J	Gen	2
Miscellaneous escapement summaries	Lakelse R.	55-65	M	Gen	2
Fry trapping records	Lakelse R.	58-61	J	Gen	2
Experimental fry trapping (using lights, etc.)	Lakelse R.	62	J	Gen	2
Redd sampling, spawner distribution	Lakelse R.	62-63 56	M	Gen	2
Tag recovery summaries	Lakelse R.	60-64	M	Gen	2
Fry migration summaries	Lakelse R.	56	J	Gen	2

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Length data	Lakelse R.	56-64	M	Smi	4
Study of daylight migration	Lakelse R.	63	J	Gen	12
Ages, scale characters, lengths, weights from juvenile samples	Lakelse	65	J	Bil	10
Fry migration summaries	Kalum R.	56	J	Gen	2
Fry netting counts	Kalum R.	56	J	Gen	3
Fry release, diary, counts, experiments	Kleanza	58-60	J	Gen	3
Fence samples - egg counts, lengths	Kleanza	59	M	Gen	3
Length data	Kleanza	60	M	Smi	4
Fence samples - egg counts, lengths	Kitwanga	59	M	Gen	3
Length data	Kitwanga	57-61 63	M	Smi	4
Summary of fry output/ survivals	Kitwanga	56-60	J	Gen	2
Fry trapping record	Kitwanga	57-61	J	Gen	2
Sample data, sex, condition, fork and hypural lengths	Kitwanga	57	M	Gen	2
Tagging and recovery records, lengths	Kispiox	63	M	Gen	3
Fry migration summaries	Kispiox	56	J	Gen	2
Aerial and ground escapement surveys, tag recovery, lengths	Kispiox	56 58-61 63	M	Gen	3

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Summary of fry output/ survivals	Kispiox R.	56-60	J	Gen	2
Length data	Kispiox R.	57-63	M	Smi	4
Fry trapping records	Kispiox R.	58-61	J	Gen	2
Daily counts	Babine fence	46-47 52	M	Smi	6
Marked fish sighted	Babine fence	49	M	Smi	6
Dead on fence (spawned and unspawned)	Babine fence	46-47 49	M	Smi	6
Analysis of pink salmon length data	Babine fence	57-61	M	Smi	4
Sample data, e.g., size, condition	Babine system	49,51	M	Smi	6
Fry trapping	Babine fence	67-68	J	Smi	8,9

NORTH AND CENTRAL COAST

Ages, scale characters, lengths, weights, etc., from tagging programs	North coast	57	M	Bil	2
Notes on Skeena-bound pinks in Ogden Channel	Ogden Channel	66	M	Aro	Office
Redd digging	Hook Nose Cr.	59-63	J	Par	1,6
Redd digging	Salloomt R.	65	J	Par	2
Fry survival	Bella Coola area	62	J	Par	1
Freshwater survival	Hook Nose Cr.	47-56	J	Par	7

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fry marking records, summaries	Whiskey Bay Fougner Bay Bella Coola area Burke Channel	63-65	J	Par	1,2 4
Fry releases, marking	Port John	61-62	J	Par	5
Thread marking	Hook Nose Cr.	45 52-53 61	J	Par	6
Dye marking experiments	Port John	59	J	Par	6
Marking quality, mortality, fin regeneration experiments	Bella Coola Whiskey Bay Port John	61-64 66	J	Par	2-5 7
Saltwater marking	Bella Coola area	61	J	Par	5
Marking apparatus	Bella Coola area	66	J	Par	3
Markers' field notes	Fougner Bay	62	J	Par	5
Mark recovery	Bella Coola area	62-66	J	Par	1-4
Sampling data - lengths, weights, etc.	Bella Coola area Burke Channel Fitzhugh Sound Port John Matthew Island	61-66	J	Par	1-5 7
Growth data	Bella Coola area	63	J	Par	1
Graphs	Bella Coola area	65	J	Par	2
Computer compilation of relative % food to total body weight	Bella Coola area	66	J	Par	3

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Initial and terminal length frequencies for predator/prey experiments	Burke Channel	67	J	Par	3
Fry catches, lengths	Bella Coola	66	J	Par	4
Starvation experiment - lengths, weights	Whiskey Bay	64	J	Par	4
Lengths/weights from lost freezer samples	Bella Coola	65		Par	2
Length/weight regressions	Fitzhugh Sound	61	J	Par	5
Stomach analyses	Burke Channel Bella Coola area Fitzhugh Sound	61-64	J	Par	1 4-5
Food observations	Burke Channel	66	J	Par	3
Parasite damage and incidence	Bella Coola area	61-63	J	Par	1,5
<u>Caligus</u> experiments	Whiskey Bay	64	J	Par	4
Predator studies, especially by coho	Bella Coola area	62-63 65-67	J	Par	1-3 7
Computer program to analyse predation data	Bella Coola area	66	J	Par	3
Coho size selection of pinks	Bella Coola area	66-67	J	Par	3
Predation by coho	Hook Nose Cr.	61	J	Par	6
Pink/coho model	Burke Channel	61	J	Par	3
Scale data	Bella Coola area	63-64	J	Par	1,4

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fry orientation data	Whiskey Bay Coryden Bay	63,66	J	Par	1,3
Conditioning experiments	Bella Coola	66	J	Par	3
Two-boat trawl catches, locations	Bella Coola area	64-65	J	Par	2,4
Alaska Fish and Game Dep. surveys	Dixon Entrance Hecate Strait	65	J	Par	2
Field notes	Namu Atnarko R.	66	J,M	Par	3
Fry observations	Burke Channel	67	J	Par	3
Distribution, charts of movement	Bella Coola area	64	J	Par	4
Creek distributions	Port John	52-54	J	Par	6
Anaesthetics - MS 222 and 2 phenoxyethanol		64	J	Par	4
Enumerations	Bella Coola area	66	J	Par	5
Fry counts	Hook Nose Cr.	61	J	Par	6
Early sea life of a salmon - MS	Bella Coola area	60-64	J	Par	7
The relationship between juvenile pink salmon - MS	Central coast	62	J	Par	7
Proximate biochemical analyses	Whiskey Bay	64	J	Par	4,7
Estimation of sea mortality rates for 1960 brood year - MS	Hook Nose Cr.	64	A	Par	7
Marine mortality schedules - MS	Bella Coola area	67	J	Par	7

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Some approaches to the study of pink and chum salmon	Bella Coola area	49-51	Y	Par	7
Brood-year estimates of mortality	Bella Coola area	63	A	Par	5
Mark recovery counts and sampling data in streams and canneries	Areas 6-8 Namu Klemtu Lower Atnarko R. Salloomt R.	61-67	M	Par	1-5 7
Quality of recoveries	Bella Coola area	63	M	Par	5
Catch statistics	Areas 7 & 8	63-64	M	Par	1 4-5
Stream surveys, escapement estimates	Bella Coola area Lower Atnarko R. Salloomt R. Area 8	62 64-66	M	Par	2 4-5
Fence counts	Hook Nose Cr. Tally Cr.	47-62	M	Par	6
Collection methods	Hook Nose Cr.	45-51	A	Par	6
Estimates of spawner density	Atnarko R.	63	M	Par	5
Band-marking	Lower Atnarko R.	66	M	Par	2
Field notes and scales	Bella Coola	65	M	Par	4
Hypural and fork lengths	Bella Coola area	63	M	Par	5
Sampling data, lengths	Bella Coola area	61	M	Par	5,7
Fecundities	Port John	54-60	M	Par	7
Life expectancy studies	Hook Nose Cr.	51-60	A	Par	6
Selectivity of a fishery (data)	Bella Coola	65-66	M	Par	7

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fence counts, fecundities, dead unspawned counts, mark recovery, injured counts, egg retention, life expectancy studies, etc.	Port John Hook Nose Cr. Tally Cr.	48-62 67	A	Gen	1
Ages, scale characters, lengths, weights, etc., from tagging programs	Areas 8 & 12	59	M	Bil	3
Incidence of supplementary scale checks	Area 8	64	M	Bil	11
Escapement samples - ages, scale characters, lengths, weights, etc.	Area 8	64	M	Bil	11

VANCOUVER ISLAND

Juvenile scale identifi- cation	Porlier Pass Qualicum Estevan Pt.	64-68	J	Bil	15
Ages, scale characters, lengths, weights, etc., from juvenile samples	Nanaimo R.	68	J	Bil	8
Fry abundance	Head- quarters Cr.	64-66 69 71-73	J	Bam	Office
Adult runs	Head- quarters Cr.	68-73	M	Bam	Office
Lengths and weights	Head- quarters Cr.	68-73	M	Bam	Office
Egg counts	Head- quarters Cr.	68 70-72	M	Bam	Office
Tagging recovery	Johnstone Strait	45,50 55	M	Aro	Office

PINK

Description	Area	Years	Maturity	Investigator	Box no.
Adult returns	West coast of Vancouver Island	67	M	Par	3
Records of incubation experiments for artificial propagation	Nanaimo	56-57	J	Gen	3
<u>SOUTHERN MAINLAND</u>					
Escapement samples - ages, scale characters, lengths/weights	Glendale	68	M	Bil	11
Sampling data	Vancouver	62,64	M	Par	1,6
Mark recovery	Vancouver	63-64	M	Par	1,5
<u>FRASER</u>					
Juvenile scale identification	Mission	64-68	J	Bil	15
<u>B.C. COAST - GENERAL</u>					
Ages, scale characters, lengths, weights, etc., from commercial catches	B.C.	56-72	M	Bil	1-9 19
Tests of differences of scale characters between stocks	B.C. coast	56-66	M	Bil	19
Sampling summaries for commercial catches	B.C.	58-60 63-71	M	Bil	2-3 5-8
Cannery samples, abundances, lengths, weights	B.C. coast	70 72-73	M	Bam	Office

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>CONTINENTAL U.S.A.</u>					
Juvenile scale identifi- cation - F.R.I.	U.S.A.	64-68	J	Bil	15
<u>ALASKA</u>					
Tests of differences of scale characters between stocks	Alaska	56-66	M	Bil	19
Ages, scale characters, lengths, weights, etc., from commercial catches	Alaska	56-64	M	Bil	Even years: 2 10-11 19 Odd years: 19
Scale characters from various body locations	Area 8 Kodiak	64	M	Bil	19
Ages, scale characters, lengths, weights, etc., from juvenile samples	Alaska	65	J	Bil	10
Sea survival	Little Port Walter	40-49	A	Par	7
<u>HIGH SEAS</u>					
Ages, scale characters, lengths, weights, etc., from tagging program	High seas	56-66	Y,M	Bil	1-3 12-14 19
Catches	High seas	61	Y,M	Par	7

PINK

Description	Area	Years	Maturity	Investigator	Box no.
U.S.A. sampling data	High seas	59	Y,M	Bil	14
U.S.A. release data	High seas	61	Y,M	Bil	14
Canadian daily tagging records with ages for					
- "Sea Queen"	High seas	66-67	Y,M	Bil	12-13
- "Canadian No. 1"	High seas	66			12
- "G.B.Reed"	High seas	65-67			13
Canadian fishing data	High seas	57	Y,M	Bil	14
Recovery data	High seas	55,57 59,60 64,65	Y,M	Bil	14
"Commander," F.R.I. tagging data	High seas	64	Y,M	Bil	15
Length and weight data, stomach analysis from Ocean Station PAPA catches	50°N 145°W	65-66 71-72	Y,M	Bil	6,9
High seas tagging program age and sampling data	High seas	68	M	Bil	8
- "G.B. Reed" parasite studies					
F.R.I. age summaries	High seas	58-67	M	Bil	12,14
F.R.I. tagging data	High seas	58-61	M	Bil	14
- "California Rose"					
<u>MISCELLANEOUS</u>					
Tests of differences of scale characters between stocks	Great Lakes	61	M	Bil	19
Ages, scale characters, lengths, weights, etc., from escapement samples	Lake Superior	61	M	Bil	19

PINK

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Tests of differences of scale characters between stocks	Nfld.	64	M	Bil	19
Ages, scale characters, lengths, weights, etc., from escapement samples	Nfld.	64	M	Bil	19

SOCKEYE

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>SKEENA RIVER</u>					
Skeena discharge records at Usk vs. sockeye returns	Skeena R.	28-58	M	Gen	2
D.K. Foerster thesis - predation on sockeye	Skeena	47	J	Gen	3
Stream survey cards	Skeena area	19-49	M	Gen	10,11
Ages, scale characters, lengths, weights, etc., from escapement samples	Skeena	44-51 55-69	M	Bil	1,4 7 10-11 18
Ages, scale characters, lengths, weights, etc., from tagging programs	Skeena	48,50 58 68-69	M	Bil	1,2 7 10,11
Ages, scale characters, lengths, weights, etc., from test fishing	Skeena	55-65 69	M	Bil	1,3 5,8 11,18
Ages, scale characters, lengths, weights, etc., from juvenile samples	Skeena	46-67	J	Bil	10-11
Commercial catch estimates	Skeena streams	51-66	M	Bil	19
Magnetic tagging analysis	Skeena River system	66-71	J,M	Smi	Office
Aerial spawner counts	Lower Skeena streams	56-57 59-60	M	Gen	2
Age/length composition	Skeena systems	64-66	M	Gen	2
Stream survey escapement counts	Skeena streams	44-66	M	Bil	19

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Indian catch estimates	Skeena streams	29-66	M	Bil	19
MS Rep. 882, Smith and Lucop - catalogue of salmon spawning grounds and tabulations of escapements in the Skeena R. Stat. Area 4 (Sections 1-5)	Skeena & Area 4	04-64	M	Gen	3
Tagging records	McLean Pt.	60	M	Gen	3
Set logs (with summaries), weather, water conditions and catches	Skeena estuary	55-64	M	Aro	Office
Summaries and rough drafts on (1) sex and jack composition, (2) lengths, (3) % injured, (4) maturity, (5) egg deposition	Skeena area	46-47 49-52	M	Gen	2
Aerial photo negatives of spawners	Lower Skeena	62	M	Smi	1
Gillnetting	Gitnadoix	59	M	Gen	2
Aerial photo negatives of spawners	Gitnadoix R.	62	M	Smi	1
Counts	Gitnadoix R. Alastair trib.	47	M	Aro	1
Spawning stream escapement surveys	Lakelse L.	44-45	M	Aro	1
Netting records	Lakelse L.	44-46	M	Aro	1
Redd sampling notes	Lakelse L. trib.	48	J	Aro	1
River levels, temperature, diary of smolt counting at fence	Lakelse R.	55	J	Aro	1

SOCKEYE

Description	Area	Years	Maturity	Investigator	Box no.
Live and dead counts	Lakelse fence	53	M	Smi	6
Injury records	Lakelse fence	53	M	Smi	6
Dead recovery, sampling data	Lakelse system	53	M	Smi	6
Records of hatchery plantings and egg sources	Lakelse L. Morrison L. Stuart L.	20-36	J	Gen	10
Scale studies of fry	Lakelse	58-60 65	J	Bil	6,11
Lake and stream spawner surveys - counts and notes	Kalum L.	44-47	M	Aro	1
J.A. McConnell thesis - limnological and fisheries survey	Kitwanga L.	46	A	Gen	3
Escapement survey counts, tag recovery, length frequencies and egg retention	Kitwanga R.	58-65	M	Gen	2
Stream survey - notes, counts	"Northend Cr." Kitwanga R. Kitwancool Cr. Moon Cr.	46	M	Aro	1
Sockeye salmon netted	Kitwanga	65	M	Bam	Office
Tagging and ocean tag recovery data	Moricetown Falls	46-47	M	Aro	1
Scale sampling record	Moricetown Falls	46-47	M	Aro	1
Analysis of Indian gaffing success	Moricetown Falls	46-47	M	Aro	1

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Spot counts of salmon migration	Moricetown Falls	46-47	M	Aro	1
Daily native catch and effort data	Moricetown Falls	46-47	M	Aro	1
Gillnetting records	Morice L.	45	M	Aro	1
Aerial photo negatives of spawners	Morice R.	62	M	Smi	1
Aerial photos	Kispiox	62	M	Smi	1
Daily counts	Babine fence	46-47 49-71	M	Smi	4,6 7
Daily counts - dead on fence	Babine fence	46-47 49-50 53	M	Smi	6
Daily counts - jacks	Babine fence	46-61	M	Smi	3,6
Injured and netted sockeye records	Babine fence	54 58-71	M	Smi	6,7
24-hr counts	Babine fence	54	M	Smi	6
Ocean tag recoveries	Babine fence	46-47 55-61 63-69	M	Smi	6,7
Fin-marked fish sightings	Babine fence	46-51 54-55 61	M	Smi	6
Fence tagging records	Babine fence	46-47 53-54 63-64 70-71	M	Smi	6,7
Babine R. slide tag recoveries	Babine fence	52-53	M	Smi	6

SOCKEYE

Description	Area	Years	Maturity	Investigator	Box no.
Operculum tagging	Babine fence	58	M	Smi	6
Pin tag recovery data	Babine fence	69,71	M	Smi	7
Tagging records and sampling data	Babine fence	46-47	M	Gen	6
Sampling data, e.g., lengths and sex (from 1% of daily fence run)	Babine fence	46-68	M	Smi	4,6 7
Fecundity samples	Babine fence	52-53 56 67-68	M	Smi	6,7
Hypural and fork lengths	Babine fence	60	M	Smi	6
Dead recovery sampling data	Babine fence	52	M	Smi	6
Length frequencies	Babine fence	46-71 (incomplete series)	M	Smi Gen	3 2
Scale books and sampling data	Babine fence	46-47	M	Gen	6
Photos of sampling	Babine fence	63	M	Gen	12
Photos of smolt enumeration operations	Babine fence			Gen	12
Spawning density experiments using pens	Babine fence	63	M	Smi	6
Aerial photos and negatives of spawners	Babine fence	51,62	M	Smi	1,5
Last year of F.R.B. operation	Babine fence	71	M	Smi	Office

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fry trapping	Babine fence	59-64	J	Smi	Office
Fry trapping	Babine fence	61-66	J	Smi	8
Daily smolt outputs by day and size group	Babine R.	66-68	J	Smi	3
Smolt out-migration estimates	Babine R.	51-73	J	Smi	8 Office
Two-year-old smolts - summary	Babine R.	51-71	J	Smi	Office
Photos of smolt enumeration	Babine R.	63	J	Gen	12
Electric counter development	Babine R.	61-64 66	J	Smi Gen Jor	8,9 3,12 Office
Fry behavior and their predators	Babine R.	48	J	Gen	6
Length, weight, age summaries of smolts	Babine R.	50-70	J	Smi	3
Sampling data for smolts	Babine R.	50-73	J	Smi	3,8
Lengths, weights, sex, age, circuli, stomach contents, parasitization	Babine R.	51	J	Gen	2
Lengths, weights, scale characters for parasitized and non-parasitized smolts	Babine R.	50-73	J	Smi	10
<u>Eubothrium</u> incidence in smolts	Babine R.	72	J	Smi	8
Tagging and tag recovery data for smolts	Babine R.	51-73	J	Smi	3,8
Pin-tagging records	Babine R.	66-68	J	Smi	8-10
Tow-netting for under- yearlings	Nilkitkwa L.	63	J	Smi	8

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Catch and marking records	Fort Babine	47-48	J	Aro	1
Notes on smolt migration	Fort Babine	47	J	Aro	1
Smolt run model - rough notes	Babine		J	Smi	Office
Netting and marking records	Babine	44	M	Bil	1
Stream surveys and escapement counts	Babine	44	M	Bil	1
Beach seining catch, marked and mark recovery records	Babine L.	44-45	J	Aro	1
Gillnet set and catch data including lengths and sex compositions, tag recoveries	Babine L.	44-48	M	Aro	1
Smolt marking records	Babine	46	J	Aro	1
No. of freshwater circuli vs. age of return	Babine	52-60	A	Bil	16
Potential egg deposition, smolt production and adult returns	Babine	56-57	A	Bil	19
Ages of tagged salmon	Babine	58	M	Bil	11
Stream survey records, escapements, tag recovery	Babine trib.	44-48 58 62-71	M	Aro Smi Bil	1 7 1
Babine area spawning report	Babine	59	M	Smi	Office
Spring growth of smolts	Babine	58-65	J	Bil	16
Scale studies of fry	Babine	58-60 65	J	Bil	6,11
Otolith/scale reading coding forms	Babine		A	Smi	3

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Length, sex frequency forms	Babine	64-65	M	Smi	3
Age composition, lengths, egg retention estimates	Babine	62-71	M	Smi	10
Lake distribution	Babine	66-68	J	And	Office
Maternal influence vs. hatching time	Babine	71	J	Bil	15
Data on smolt growth vs. salinity	Babine		J	Bil	15
Netting log	Babine L.	61	M	Gen	3
Spawning success, live and dead counts, lengths	Babine L. trib.	62-71	M	Smi	7
Kokanee counts	Babine L.	62-71	M	Smi	7
Stream escapement surveys and tag recovery	Morrison R., Tahlo Cr.	45-48	M	Aro	1
Daily fence counts	Morrison R.		M	Smi	7
Gillnet set records - catches	Morrison L. system	45-48	A	Aro	1
Fry observations	Morrison R.	48	J	Aro	1
McMahon thesis - on rearing capacity of Morrison L.	Morrison L.	44-47	J	Gen	3
Daily counts	Six Mile Cr.	50,53	M	Aro	1
Stream escapement counts	Six Mile Cr.	50,53	M	Aro	1
Dead and dead unspawned counts	Six Mile Cr.	50,53	M	Aro	1

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fecundity, egg retention, lengths, sex composition	Six Mile Cr.	50,53	M	Aro	1
Tag recovery records from Babine R. slide tagging and other taggings	Six Mile Cr.	50,53	M	Aro	1
Daily fence counts of fry	Six Mile Cr.	51	J	Aro	1
Redd sampling	Six Mile Cr.	51	J	Aro	1
Fry lengths	Six Mile Cr.	51	J	Aro	1
Experimental thread marking	Six Mile Cr.	51	J	Aro	1
Marking to assess fry predation	Six Mile Cr.	51	J	Aro	1
Aerial photo negatives of spawners	Fulton R.	62	M	Smi	1
Escapements, water temperatures	Fulton R.	65-71	M	Smi	9
Maps of spawner distribution	Four Mile Cr.	64-65	M	Smi	1
Live and dead fence counts	Four Mile Cr.	64-65	M	Smi Gen	7 3
Predator kills	Four Mile Cr.	64-65	M	Smi Gen	7 3
Dead recovery sampling data, otolith data	Four Mile Cr.	64-65	M	Smi Gen	7 3
Displacement experiment Four Mile to Pinkut Cr.	Four Mile Cr.	65	M	Smi	7

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Tagging records	Four Mile Cr.	65	M	Smi Gen	7 3
Counts in stream sections	Four Mile Cr.	65	M	Smi Gen	7 3
Rough field notes on spawning distribution	Four Mile Cr.	64-65	M	Gen	3
Escapements, water temp- eratures	Pinkut Cr.	65-71	M	Smi	9
Netting records - counts, lengths, sex	Bear L.	45-48	A	Aro Gen	1 4
Indian fishing catches	Bear L. area	45,48	A	Aro	1
Stream surveys - counts and descriptions	Bear L. tribs	45-48	M	Aro Gen	1 4
Lake spawning surveys	Bear L.	45-48	M	Aro Gen	1 4
Tagging and recovery including lengths, sex, net injuries	Bear R. fence	47-48	M	Aro Gen	1 4
Ocean tag recovery	Bear L. area	47	M	Aro Gen	1 4
Sampling data	Bear L. area	48	M	Aro Gen	1 4
Scale books	Bear L. area	45-48	A	Gen	4
Netting records, scale books	Damdochax L. Damshilgwit L. Slamgeesh L. Kluayaz L. Motase L. Sustut L. Johanson L. Asitka L.	46	A	Aro Gen	1 4
Catch records	Sustut L. Johanson Cr.	45	A	Aro Gen	1 4

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Aerial survey records, spawner counts, stream surveys, etc.	Upper Skeena lakes	61-67	M	Smi	1

NORTH AND CENTRAL COAST

Daily counts	Hook Nose Cr.	47 45-51 53-66	A	Par	6
Age composition	Hook Nose Cr. Atnarko	48 52-53 58	M	Par	6
Adult counts	Hook Nose Cr. Tally Cr.	60 49-58	M	Par	6
Sockeye redds	Tally Cr. Hook Nose Cr.	59-62	J	Par	6
Sockeye length samples	Port John	61	J	Par	7

VANCOUVER ISLAND

Records of incubation experiments for artificial propagation	P.B.S.	56-57	J	Gen	3
Juvenile scale identifi- cation	Qualicum Estevan Pt. Porlier Pass	64-68	J	Bil	15
Maternal influence vs. hatching time	Qualicum R. Rosewall Cr.	71	J	Bil	15
Circulus formation vs. age and size of parents and size of eggs and fry	Rosewall Cr.	71-72	J	Bil	15
Data on smolt growth vs. salinity	Robertson Cr.		J	Bil	15

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>FRASER</u>					
Selectivity of fisheries for males	Fraser R.	30-32	M	Par	7
Ages, scale characters, lengths, weights, etc., from escapement samples	Fraser	57-66	M	Bil	3-7 11,16
Ages related to parasite studies	Fraser	56,59	M	Bil	1,3
Ages, scale characters, lengths, weights, etc., from juvenile samples	Fraser	59-61 63-64	J	Bil	3-5
Ages, scale characters, lengths, weights, etc., from test fishing	Fraser	66	M	Bil	7
Maternal influence vs. hatching time	Stellako	71	J	Bil	15
Dead recovery record - tags recovered in lake	Cultus L.	32-35	M	Gen	3
Fence counts - size, sex, mark recovery data, tagging records	Cultus L.	32-35	M	Gen	3
Sockeye recovered in lake	Cultus L.	32-34	M	Gen	3
Record of spawned fish	Cultus L.	32-34	M	Gen	3
Fecundity samples	Cultus L.	32-34	M	Gen	3
Diameter measurements of eggs	Cultus L.	32	J	Gen	3
Egg retention measure- ments	Cultus L.	33	M	Gen	3

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Daily downstream migration counts, some including (1) counts of marked fish, (2) weights of sampled migrants, (3) stream temperature, (4) proportions in samples of 1- and 2-year smolts, (5) coho counts, (6) various analyses of the runs, (7) record of fry marking (1935), (8) counts of non-sockeye species (1937-39)	Cultus L.	26-40	J	Gen	3
Mark recovery records	Cultus L.	33	J	Gen	3
Juvenile scale identification	Mission	64-68	J	Bil	15
Photoperiod effects on circuli no.	Pitt R.	71	J	Bil	15
<u>B.C. COAST - GENERAL</u>					
Ages, scale characters, lengths, weights, etc., from escapement samples	Misc. B.C. areas	44 57-67	M	Bil	1-3 5-7 11,16
Ages, scale characters, lengths, weights, etc., from juvenile samples	Misc. B.C. areas	57-61 64,68	J	Bil	2-4 6-8 11
Ages, scale characters, lengths, weights, etc., from commercial catches	B.C.	14-15 18-21 23 29-31 43-46 49-72	M	Bil	1-9 11,18
Fry and egg transfers to and from hatcheries at Lakelse L., Morrison L. and Stuart L.	B.C.	20-36	J	Gen	10
Mirror effects on growth and fat content		71	J	Bil	15

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Scale variation within one fish		71	M	Bil	15
Meristics studies, ages	B.C.	55-57	M	Bil	1-2
Tests of differences of scale characters between stocks	B.C.	63-66	M	Bil	19
<u>ALASKA</u>					
Ages related to parasite studies	Alaska	56,59	M	Bil	1,3
Ages, scale characters, lengths, weights, etc., from escapement samples	Alaska	62 56-58	M	Bil	1,4 10,14 19
Tests of differences of scale characters	Alaska	63-66	M	Bil	19
Graphs of scale characters	Alaska		M	Bil	19
Length, weight relationship <u>O. nerka</u> - MS	Kitoi R.	55-57	A	Par	7
Sea survival tables	Little Port Walter	61	A	Par	7
Experiments	Little Port Walter	62	M	Par	7
Selectivity of a fishery	Little Port Walter	62	M	Par	7
Early sea life of a salmon - MS	Little Port Walter	62	M	Par	7
Estimates of a biological population subject to a biased mortality - MS	Little Port Walter	62	M	Par	7

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Racial studies	Bristol Bay	58 60-61	M	Bil	20
Meristics studies and ages	Alaska	55-57	M	Bil	1-2
<u>CONTINENTAL U.S.A.</u>					
Age, scale characters, lengths, weights, etc., from commercial catches	U.S.A.	56-70	M	Bil	1 10-11
Ages related to parasite studies	U.S.A.	56,59	M	Bil	1,3
Juvenile scale identifi- cation - F.R.I.	U.S.A.	64-68	J	Bil	15
<u>ASIA</u>					
Ages of tagged salmon	Sea of Okhotsk	55	M	Bil	1
Scale studies of fry	Kamchatka	58-60 65	J	Bil	6, 11
<u>HIGH SEAS</u>					
Meristics studies and ages	Jpn. high seas fishing	55-57	Y,M	Bil	1-2
Ages, scale characters, lengths, weights, etc., from tagging programs	High seas	56-67	Y,M	Bil	1-3 12-14 18
F.R.I. tagging data - - "California Rose" - "Commander"	High seas	58	Y,M	Bil	14
F.R.I. release and recovery data	High seas	58-61	Y,M	Bil	14

SOCKEYE

Description	Area	Years	Matur- ity	Investi- gator	Box no.
U.S.A. sampling data	High seas	59	Y,M	Bil	14
U.S.A. release data	High seas	61	Y,M	Bil	14
Canadian daily tagging records with ages for					
- "Sea Queen"	High seas	66-67	Y,M	Bil	12-13
- "Canadian No. 1"	High seas	66	Y,M	Bil	12
- "G.B. Reed"	High seas	65-67	Y,M	Bil	13
Canadian fishing data	High seas	57	Y,M	Bil	14
Recovery data	High seas	55,57 59-60	Y,M	Bil	14
Canadian tagging data	High seas	65	Y,M	Bil	20
Ages, scale characters, lengths, weights, etc., from Ocean Station PAPA catches	50°N 145°W	63	Y,M	Bil	5
Lengths, weights, stomach contents analysed from Ocean Station PAPA catches	50°N 145°W	65-66	Y,M	Bil	6,9
F.R.I. age summaries	High seas	62-67	M	Bil	12
Catch/20 skates by Japan	High seas	60-70	Y,M	Bil	14
Marine growth of western Alaska salmon estimated from high seas sampling data- MS	High seas	62	Y	Par	7
Ocean mortality and growth of sockeye salmon	High seas		Y	Par	7

OTHER FISH SPECIES

OTHER FISH SPECIES

Description	Area	Years	Maturity	Investigator	Box no.
<u>SKEENA RIVER</u>					
H. Godfrey thesis (whitefish)	Skeena L.	49	A	Gen	3
Set logs - steelhead caught and tagged	Skeena test fishing	55-64	M	Aro	Office
Sampling data, ages, catch records for steelhead, Dolly Varden	Skeena test fishing	56	M	Bil	1
Ages, scale characters, lengths/weights - steelhead	Skeena test fishing	56 61-63 65	M	Bil	1 4-6
Length, sex, ages for lake trout	Skeena	58	A	Bil	11
Gillnetting - Dolly Varden, steelhead	Gitnadoix R.	59	M	Gen	2
Netting records - cutthroat, whitefish, sucker, sculpin	Lakelse L.	44-46	A	Aro	1
Trap netting records, counts - squawfish, sucker, Dolly Varden, steelhead, cutthroat, peamouth	Hot Springs Cr. Lakelse	53	A	Gen	1
Mark recovery for predator studies - cutthroat	Lakelse L.	53	A	Gen	1
Emigrant fence counts and creel census - Dolly Varden, whitefish, cutthroat	Lakelse R.	53	A	Gen	1
Stomach analysis data - cutthroat, squawfish, Dolly Varden, sculpin, rainbow, whitefish, peamouth	Lakelse L.	53-55	A	Gen	1

OTHER FISH SPECIES

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Creel census data - cutthroat, Dolly Varden, rainbow	Lakelse L. & R.	53,56	A	Gen	1
Fence counts of "coarse fish" - Dolly Varden, suckers	Lakelse R.	56	A	Gen	1
Netting records - catches, lengths	Kalum L.	44-47	A	Aro	1
Fence counts - trout	Kitwanga	60	M	Gen	2
Tagging and ocean tag recovery data - steelhead	Moricetown Falls	46-47	M	Aro	1
Scale sampling records - steelhead	Moricetown Falls	46-47	M	Aro	1
Analysis of Indian gaffing success - steelhead	Moricetown Falls	46-47	M	Aro	1
Spot counts of migration - steelhead	Moricetown Falls	46-47	M	Aro	1
Daily catch and effort data - steelhead	Moricetown Falls	46-47	M	Aro	1
Netting records - cutthroat, Dolly Varden	Morice L.	45	A	Aro	1
Tagging records, counts, lengths - cutthroat, Dolly Varden, peamouth, suckers, squawfish, whitefish	Kispiox system	45-47	A	Gen	6
Netting records - lake trout, cutthroat, whitefish, suckers, kokanee	Morrison L.	45	A	Aro	1
Scale samples, limnology notes, netting records - sucker, kokanee, lake trout	Morrison L.	45-47	A	Gen	5

OTHER FISH SPECIES

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Netting and marking records - trout, whitefish	Babine	44	A	Bil	1
Gillnet set catch data, lengths, sex composition - lake trout, whitefish, cutthroat	Babine	44-45	A	Aro	1
Netting records - cutthroat, whitefish, suckers, kokanee	Babine	45	A	Aro	1
Sampling data and scale books - sucker, squawfish, kokanee, lake trout, rainbow trout, burbot	Ft. Babine Babine fence Babine L. (spawning streams)	45-47	A	Gen	5
Netting records and scale books - whitefish, trout, sucker	Babine	45-47	A	Gen	5
Netting records and scale books - whitefish, trout, sucker	Babine streams	45-47	A	Gen	5
Daily counts - steelhead	Babine fence	46-47	M	Smi	6
Weight/length and age, egg weight - kokanee	Babine	58 65-66	M	Bil	11
Ages of tagged fish - steelhead	Babine	58	M	Bil	11
Rainbow scales	Babine	69	A	And	Office
Daily fence counts - kokanee	Six Mile Cr.	50	M	Aro	1
Fence counts - rainbow	Six Mile Cr.	51	J	Aro	1

OTHER FISH SPECIES

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fence counts - rainbow, kokanee	Six Mile Cr.	53	M	Aro	1
Fence counts, lengths and sex composition - kokanee	Six Mile Cr.	53	M	Aro	1
Dead counts - rainbow, kokanee	Six Mile Cr.	53	M	Aro	1
Tag recovery - kokanee	Six Mile Cr.	53	M	Aro	1
Fence counts - live and dead - kokanee	Four Mile Cr.	64	M	Smi	1
Scale book - squawfish, sucker, lake trout, whitefish, kokanee, rainbow, chub	Upper Skeena lakes, e.g., Sustut, Bear	45	A	Gen	4
Netting records and scale samples - Dolly Varden, whitefish, sucker, rainbow, chub	Upper Skeena lakes	45-48	A	Gen	4
Netting records - whitefish, chub, cutthroat, lake trout, sucker, burbot	Bear L., Azuklotz L.	45-48	A	Aro	1
Tagging records, netting records, scale book - sucker, whitefish, Dolly Varden	Bear L.	47	A	Gen	4
Sampling data, tagging, tag recovery, fence counts - squawfish, rainbow, white- fish, sucker	Bear R. fence	48	A	Gen	4

NORTH AND CENTRAL COAST

Ages, scale characters, lengths/weights from tagging programs - steelhead	North coast	58	Y,M	Bil	2
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OTHER FISH SPECIES

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Stickleback stomach analyses	Bella Coola area	63	A	Par	1
Trawling data - ratfish, turbot	Bella Coola area	64	A	Par	1
Lengths, mark and release records, netting records	Hook Nose Cr. Port John L.	48-54	A	Gen	1
Predation by sculpins, stomach contents	Hook Nose Cr.	57-60	A	Gen	1
Daily upstream and downstream counts - cutthroat, Dolly Varden	Hook Nose Cr.	48-62	A	Gen	1
Fence counts - cutthroat, steelhead, sculpins, Dolly Varden	Port John Tally Cr.	49 51-60	A	Gen	1
Stomach analyses - sandfish, ling cod, herring	Fitzhugh Sound	62	A	Par	5
Angling data - trout	Bella Coola R.	67	A	Par	3
Salmon and other fish collections	Hook Nose Cr.	45-51	A	Par	6
Lamprey migration	Hook Nose Cr. Tally Cr.	48-52	M	Par	6
Predator tagging - Dolly Varden, cutthroat	Port John	49-51	M	Par	6
Ages - trout	Port John L.	50-51	A	Bil	1
Sculpin predation - daily counts, population assessment	Hook Nose Cr.	56-60	M	Par	6

OTHER FISH SPECIES

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Fry and adult counts of steelhead and cutthroat	Hook Nose Cr.	61	J,M	Par	6
<u>VANCOUVER ISLAND</u>					
Counts - cottids, lamprey, trout	Nile Cr.	48-54	A	Wic	Office
Escapement samples - steelhead	Oyster R.	59	M	Bil	3
Counts - trout	Chef Cr.	61-65	A	Wic	Office
Stomach analysis - trout	Chef Cr.	62-63	A	Wic	Office
Cutthroat MS - printout	Chef Cr.	67	A	Par	3
Aging of rainbow trout	Barsby L.	71	A	Bil	9
Circulus formation vs. age and size of parents - kokanee	Rosewall Cr.	71-72	M	Bil	15
Counts, scale samples - cutthroat above 15 cm tagged	Lymn Cr.	71-73	A	Mas	Office
<u>FRASER</u>					
Stomach contents data - sucker, chub, squawfish, sculpin, cutthroat, steelhead, Dolly Varden, chum, kokanee	Cultus L.	35-38	A	Gen	7,8
Growth rate in relation to size as shown in steel- head trout - MS	Chilliwack R.	55	A	Par	7
<u>B.C. COAST - GENERAL</u>					
Ages - grey cod	B.C. coast	58	A	Bil	2

OTHER FISH SPECIES

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Ages, scale characters, lengths/weights, etc., from steelhead - commercial catches	B.C.	63,69	Y,M	Bil	5,8
<u>HIGH SEAS</u>					
Ages, scale characters, lengths, weights, from tagged steelhead	High seas	56-58 60-64	Y,M	Bil	1-2 5-6 12,14
Ages of grey cod	Bering Sea	59	A	Bil	3
<u>MISCELLANEOUS AREA</u>					
Aging - whitefish, trout	Yukon	72-73	A	Bil	9

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Maturity	Investigator	Box no.
<u>SKEENA RIVER</u>					
Stream survey cards	Skeena system	19-49	-	Gen	10,11
Photos, negatives, notes and photo index of streams and their gravel	Skeena system	64	-	Smi Gen	1 3
Spawning stream aerial survey field notes	Skeena system	61-67	-	Smi	1
Aerial photos of spawning locations	Skeena system	-	-	Smi	4-5
B.C. government air photos	Skeena streams	-	-	Smi	2
Stream survey notes	Skeena system	65	-	Gen	2
MS Rep. 882 - catalogue of salmon spawning grounds and escapements	Skeena system	04-64	-	Gen	3
Air temperature and precipitation summaries	Skeena area	53-63	-	Smi	3
Negatives of graphs, charts, contour maps of lakes	Skeena system	Approx. 44-48	-	Gen	12
Water conditions	Skeena test fishing	55-64	-	Aro	Office
River conditions	Lower Skeena mainstream	63-65	-	Gen	3
Descriptive notes, soundings, water temperatures, plankton, secchi, stream surveys	Alastair L. & Gitnadoix R.	46-47	-	Aro	1
V. H. McMahon's thesis - a limnological study	Lakelse L.	44-47	-	Gen	1
Limnological and weather data	Lakelse L.	44-45 47-48	-	Aro	1

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Dredging records	Lakelse L.	44	-	Gen	6
Water levels; air and water temperatures	Lakelse L.	44	-	Gen	3,6
Notes on creeks	Lakelse L. system	44	-	Gen	3
Hatchery and stream temperatures	Lakelse L. system	59-60	-	Gen	3
Levels, temperatures, diary	Lakelse R.	55	-	Aro	1
Thermograph charts	Williams Cr. Scully Cr.	51-54	-	Smi	5
Weather records, diary	Lakelse R.	64	-	Gen	2
Mapping of areas of substrate	Lakelse R.	60	-	Gen	2
Limnology records - lake and stream temperatures, description of lake, plankton, secchi, O ₂ , pH	Kalum L. system	44-47	-	Aro	1
Water temperatures	Kleanza Cr.	58-59	-	Gen	3
Stream surveys	Kitwanga system	45-47	-	Aro Gen	1 6
Limnology data	Kitwanga L.	45-46	-	Aro	1
J. A. McConnel thesis - limnology	Kitwanga L.	46	-	Gen	3
Mapping stream width and substrate	Kitwanga R.	60	-	Smi	1
Water levels, temperatures and colours, weather	Moricetown Falls	46-47	-	Aro	1
Limnology data - soundings, temperatures, etc.	Morice L.	46	-	Gen Aro	6 1

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Descriptive notes, stream surveys	Morice L. area	45-46	-	Gen Aro	6 1
Stream conditions, levels, temperatures	Kispiox R.	56-61	-	Gen	3
Water observations	Kispiox R.	62-63	-	Gen	3
Mapping notes (width, substrate composition)	Kispiox R. Sweetin Cr.	60	-	Gen	3
Water levels, temperatures, weather	Lower Babine R. fence	45-71	-	Aro Smi	1 4,6-7, 10
Thermograph charts	Lower Babine R. fence	64-71	-	Smi	1,3
Stadia mapping survey	Lower Babine R. fence to Nilkitkwa L.	66	-	Smi	1
Temperatures, soundings, etc.	Nilkitkwa L.	45-65	-	Smi	8,10
Climatological station reports	Fort Babine	44-67 (62 - missing) (63 - incomplete)	-	Smi	5
Lake levels, temperature	Fort Babine	44-56	-	Smi Aro	5 1
Bathymograph slide index	Fort Babine	46	-	Aro	1
Limnological data - pH, secchi, temperatures, dredging, soundings, O ₂ , plankton, weather	Babine L.	44-48	-	Aro Gen	1 6
Ice break-up times	Babine L.	45-65	-	Smi	10
Water temperatures, levels, weather	Babine L.	50	-	Smi	6
Zooplankton distribution	Babine L. area	66-68	-	And	Office

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Notes on past fires and logging	Babine L. area	47	-	Gen	6
Stream surveys	Babine L. system	44-48	-	Aro Gen	1 6
Stream surveys including water data, especially temperature	Babine L. streams	58, 62-71	-	Smi	7
Limnological data - soundings, temperatures, O ₂ , pH, plankton, secchi, lake levels, dredge sampling, weather	Morrison L.	45-47	-	Aro Gen	1 6
V. H. McMahon thesis - a limnological study	Morrison L.	44-47	-	Gen	3
Survey and mapping	Upper Tahlo Cr.	47	-	Gen	6
Levels, temperatures, weather	Morrison R.	65	-	Smi	7
Thermograph records	Morrison R.	72-73	-	Smi	3
Stream surveys, tag recovery	Morrison R. Fulton R.	46	-	Gen	6
Escapements, water temperatures	Fulton R. Pinkut Cr.	65-71	-	Smi	9
Water levels, temperatures, weather	Four Mile Cr.	64-65	-	Smi Gen	7 3
Water levels, temperatures, weather	Six Mile Cr.	50-51	-	Aro	1
Descriptions	Salix Cr. ("Willow") Azuklotz Cr. ("Mink") Bear R.	45-46	-	Aro Gen	1 4

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Limnological data - soundings, current drogue measurements, weather, water levels	Bear L.	45-48	-	Aro	1
	Azuklotz L.	.		Gen	4
Water temperatures and percolation experiments in lake spawning substrates	Bear L.	48	-	Aro	1
Weather, stream levels	Bear R. fence	47	-	Aro Gen	1 4
Limnological data	Sustut L.	45	-	Aro Gen	1 4
Stream surveys	Sustut L. area, Johanson Cr.	45	-	Aro Gen	1 4
Limnological data - soundings, temperatures, secchi, weather, de- scriptions, maps, etc.	Upper Skeena lakes: Sustut Johanson Asitka Damdochax Damshilgwit Slangeesh Kluayaz Motase	46	-	Aro Gen	1 4
Stream surveys	The above upper Skeena areas including: Kilankis Shaslomal Shilahou Sicintine Shelagyote Slangeesh Kluatantan Squingula Nilkitkwa	46	-	Aro Gen	1 4
Index of photos	Above upper Skeena areas	46	-	Aro Gen	1 4

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>NORTH AND CENTRAL COAST</u>					
Plankton (P.O.G.) reports	Burke Channel	64-67	-	Par	2-4
Station positions, B.T. log and plankton log, temperature and salinometer data sheets	Burke Channel	65	-	Par	2
Stream surveys	Bella Coola area Areas 7 and 8 Atnarko R.	66-67	-	Par	2,3
Oceanographic papers, meteorological register	Port John	47	-	Par	6
Precipitation	Port John Ocean Falls	47-49	-	Par	6
Bottom fauna	Port John L.	49-50	-	Par	6
Limnology data	Port John L.	51	-	Par	6
Temperature and salinity	Port John area	61	-	Par	7
Stream gauge, temperature records	Hook Nose Cr.	55-59	-	Par	6
Regression of Hook Nose Cr. temperature on Ocean Falls air temperature	Hook Nose Cr.	47-53	-	Par	6
Creek and lake temperatures, gauge readings, rainfall, weather	Tally Cr. Port John L. Hook Nose Cr.	56	-	Gen	1

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>VANCOUVER ISLAND</u>					
Physical data	Nile Cr.	48-54	-	Wic	Office
Weather, stream levels and temperatures	Tsolum R.	64-73	-	Bam	Office
Aerial photos	Cowichan	67	-	God	9
Field notebooks	Cowichan	65-66	-	God	9
Water levels, temperatures	Cowichan R.	65	-	God	9
Benthic data	Carnation Cr.	71-73	-	Scr	Office
Flow data	Carnation Cr.	71-76	-	Scr	Office
Gravel information	Carnation Cr.	71-76	-	Scr	Office
Hydrological data	Carnation Cr.	71-76	-	Scr	Office
Epiphyton data	Carnation Cr.	72-76	-	Scr	Office
<u>FRASER RIVER</u>					
Temperatures and rainfall	Vedder R. Sweltzer Cr.	26-40	-	Gen	3
<u>B.C. COAST - GENERAL</u>					
Photos	Lakelse area	40's to early 50's	-	Gen	9
	Port John area	47-53	-	Gen	9
	Nile Cr.	47-53	-	Gen	9
	Cowichan	late 40's	-	Gen	9
	Skeena system	before 44 to 50's	-	Gen	9

ENVIRONMENTAL AND INVERTEBRATE DATA RECORDS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Photos and negatives	Skeena area and a few other areas, e.g., Butedale Nile Cr. Glendale Bridge R. Dean Channel	44-49	-	Gen	12
B.C. Dep. of Agriculture climate tables of temperature, precip- itation and sunshine	B.C.	54 57-63	-	Smi	5
<u>MISCELLANEOUS AREAS</u>					
Canadian weather review	Canada	63-67	-	Smi	5

MISCELLANEOUS

MISCELLANEOUS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
<u>SKEENA RIVER</u>					
Miscellaneous photos	Skeena	62-63	-	Smi	1
Photos of equipment	Skeena	58,61 63,65	-	Smi	5
Predators at nets - seals	Skeena	55-64	-	Aro	Office
Mesh sizes of test fishing	Skeena	55-64	-	Aro	Office
Wildlife records	Lakelse area	44	-	Gen	6
Experiments to assess efficiency and accuracy of adult fence counts	Lakelse fence	53	-	Smi	6
Diary	Lakelse fence	53	-	Smi	6
Field notebook - fence operations	Lakelse R.	55	-	Smi	5
Fence construction photos	Williams Cr.	39	-	Gen	9
Diary	Kalum L.	45-47	-	Aro	1
Diaries	Kleanza Cr.	52-59	-	Gen	3
Diaries	Kitwanga area	45-59	-	Gen	4,6
Diary	Moricetown Falls	46-47	-	Aro	1
Diary of a netting session	Morice R.	56	-	Gen	3
Photos of Babine area	Babine	46-50	-	Gen	9
Photos of Babine fence	Babine R.	48	-	Gen	9
Photos of Babine slide	Babine R.	51,57	-	Gen	9
Annual diaries	Babine fence	53-54 61-71	-	Smi	6,7

MISCELLANEOUS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Photos of adult sampling	Babine fence	63	-	Gen	12
Photos of electronic counter development	Babine fence	63	-	Gen	12
Daily records of people travelling on river by boat	Lower Babine R.	63	-	Smi	6
Diaries	Fort Babine Nilkitkwa	51-73	-	Smi Gen	8 3
Plans, drawings - river boats, fry trapping equipment, etc.	-	-	-	Smi	4
Diary of fence and cabin construction	Six Mile Cr.	50	-	Aro	1
Diary	Six Mile Cr.	53	-	Aro	1
Photos of fence construction	Six Mile Cr.	50	-	Gen	9
Fence site photos	Four Mile Cr.	50	-	Gen	9
Diary	Four Mile Cr.	65	-	Smi	7
Diary, photo index notes, etc.	Upper Skeena lakes	46	-	Gen	6
Photos of an unknown fence			-	Smi	5

NORTH AND CENTRAL COAST

Log books - "Noctiluca"	Bella Coola area	60-65	-	Par	1-2, 5
Marking apparatus	Bella Coola area	65	-	Par	3

MISCELLANEOUS

Description	Area	Years	Matur- ity	Investi- gator	Box no.
Field log	Bella Coola area	61-67	-	Par	2
Log book	Port John Bella Coola Bella Bella	59-60	-	Par	7
Plankton records	Burke Channel	65	-	Par	2
Plankton MS Rep.	Central coast	66	-	Par	3
Plankton sample data	Bella Coola area	64	-	Par	4
Photo of "A.P. Knight" and "Vellella"			-	Par	7
Marking apparatus (F.R.B. MS 908)			-	Par	3
