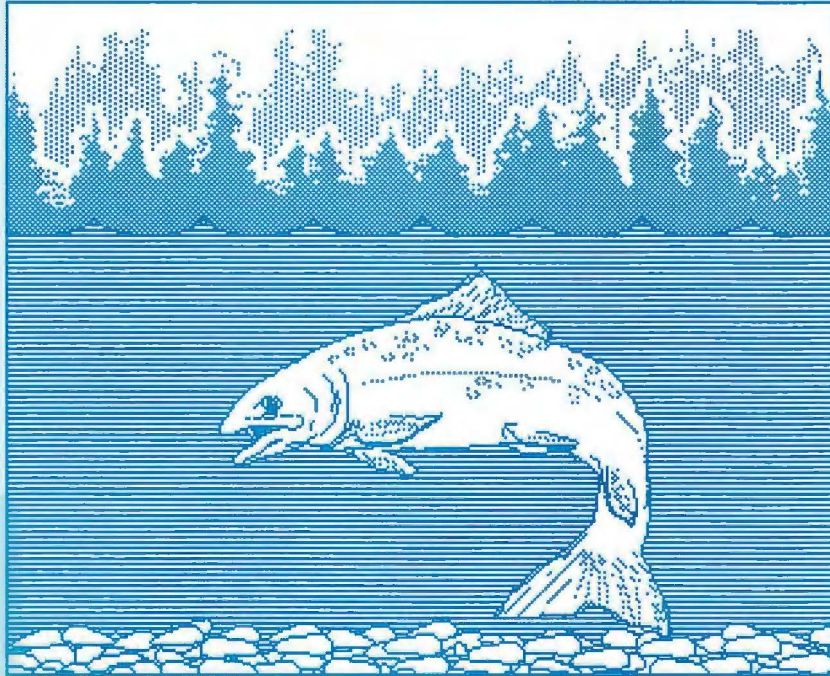




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Fish Habitat Inventory & Information Program

**STREAM SUMMARY
CATALOGUE
SUBDISTRICT # 4D
SMITHERS (VOLUME 2)**



SH
157.8
S777
1988
no. 4D
v. 2



Fisheries
and Oceans



BC
Ministry of Environment

Canada

133438

**Fish Habitat
Inventory & Information Program**

**STREAM SUMMARY
CATALOGUE
SUBDISTRICT # 4D
SMITHERS (VOLUME 2)**

BULKLEY

North Coast Division
Fisheries Branch
Department of Fisheries & Oceans

May 1991

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PREFACE

This catalogue contains a summary of information on fish and fish habitat for 83 streams in DFO Subdistrict 4D, Smithers Volume 2 (Bulkley). The catalogue is organized as follows:

- 1.0 Map Indices;
- 2.0 User guides;
- 3.0 Stream Summaries;
- 4.0 Bibliography; and
- 5.0 Stream Information Summary maps.

Stream Information Summaries (SIS) and escapement records are arranged by watershed code. Cross indices of watershed codes and stream names are included in section 1.0 of this catalogue. Users are encouraged to contact Department of Fisheries and Oceans (DFO) or B.C. Ministry of Environment (MOE) habitat inventory staff if they have additional fish or fish habitat information or can correct inaccuracies in the existing data.

Users of this catalogue are reminded that SIS data is intended to provide a "brief summary" of stream information. Local DFO and MOE offices should be contacted if more detailed information is required.

Note: In cases where a major river, such as the Skeena or the Bulkley, crosses several subdistricts, the stream summary for that system has been included in all relevant subdistrict catalogues. The escapement profile, however, has only been included in the subdistrict directly responsible for collecting the bulk of escapement information.

ACKNOWLEDGEMENTS

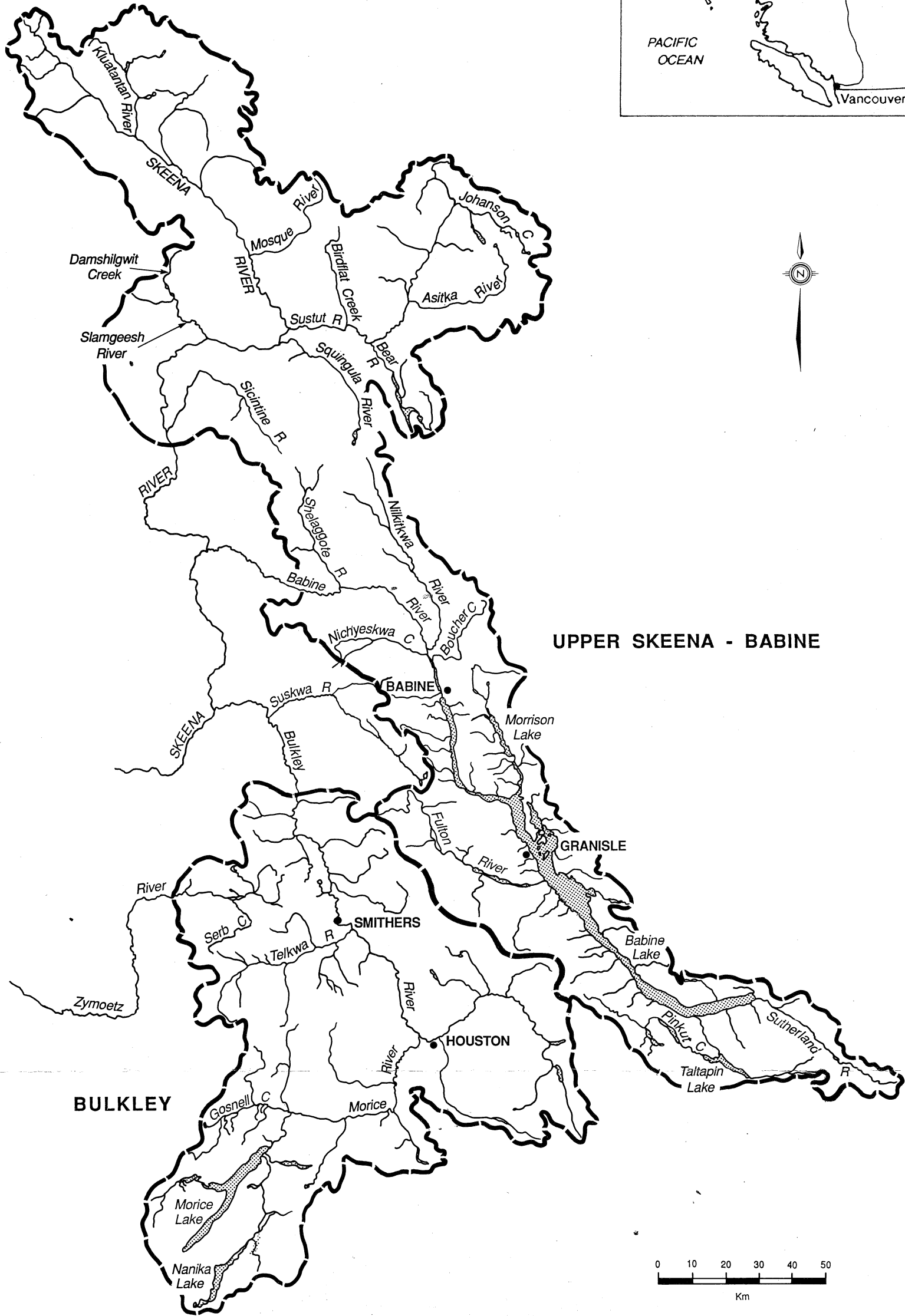
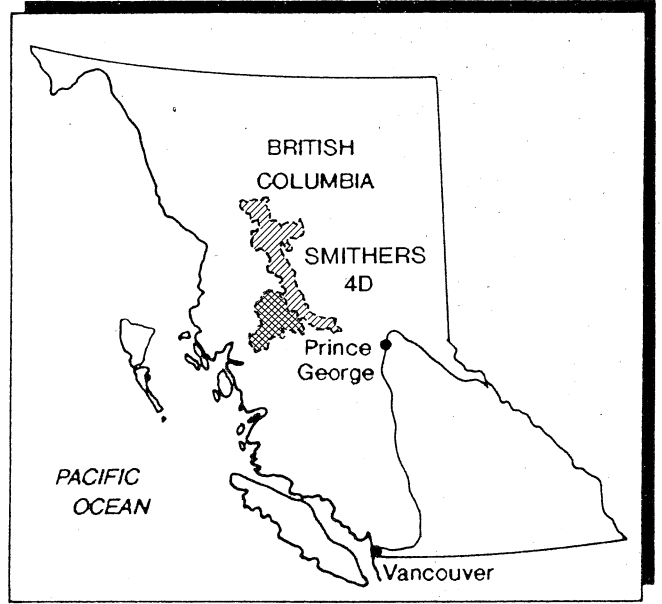
The Stream Information Summaries and maps were originally prepared in 1987 by R. DeMarco of SHIP Environmental Consultants Ltd. under a contract managed by T. Pendray, Department of Fisheries and Oceans (DFO), North Coast Division. The information was updated extensively by B. Boonstra under contract to B.C. MOE and DFO. The revised maps included in this catalogue were drafted by XY3 Graphics. Catalogue production was coordinated by B. Mason, Habitat Management Division. The assistance of DFO District 8 and Subdistrict staff and B.C. Ministry of Environment (MOE) Region 6 staff in providing and verifying much of the information is greatly appreciated. Stream Information Summaries were produced by K. Pontus, Habitat Management Division, using the Stream Information Summary System (SISS). Escapement graphics were developed by G. Serbic and data were compiled by G. Hudson, Pacific Biological Station, Nanaimo, using the Salmon Escapement Data System (SEDS).

Correct citation for this publication:

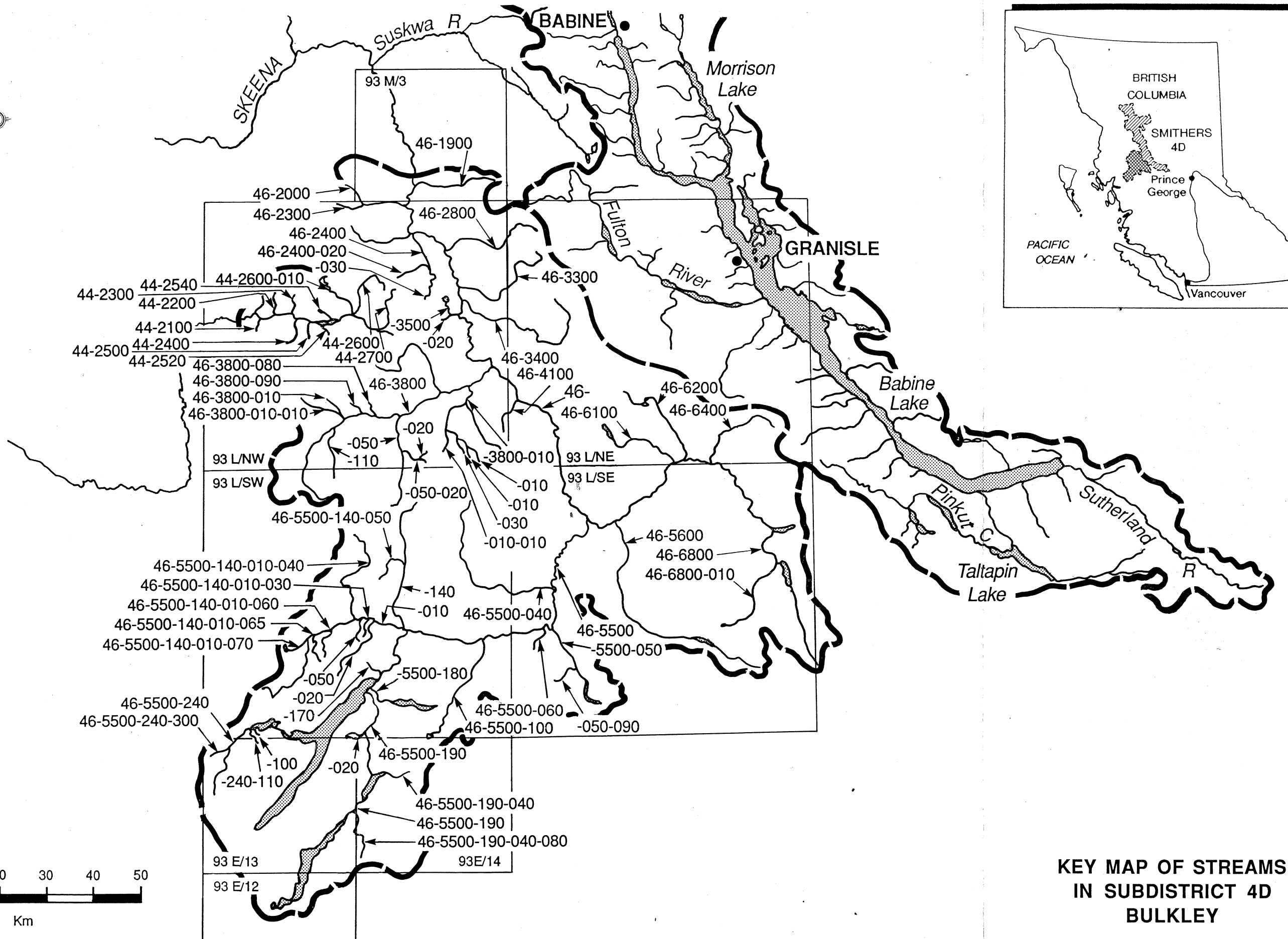
Fish Habitat Inventory and Information Program. 1991. Stream Summary Catalogue. Subdistrict 4D Smithers, Volume 2. Department of Fisheries and Oceans, Vancouver, B.C.

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SMITHERS - SUBDISTRICT 4D



**KEY MAP OF STREAMS
IN SUBDISTRICT 4D
BULKLEY**

LISTING OF STREAMS NUMERICALLY BY WATERSHED CODE - SUBDISTRICT #4D (BULKLEY)

Watershed Code	Gazetted Name	Local Name
44-2100	UNNAMED C	
44-2200	COAL C	
44-2300	SANDSTONE C	
44-2400	UNNAMED C	
44-2500	SERB C	
44-2520	UNNAMED C	
44-2540	UNNAMED C	
44-2600	PASSBY C	
44-2600-010	UNNAMED C	HANKIN LAKE C
44-2700	SILVERN C	
46	BULKLEY R	
46-1900	CAUSQUA C	FISH C
46-2000	JOHN BROWN C	
46-2100	GRAMOPHONE C	
46-2300	TROUT C	SHEDDY C
46-2400	TOBOGGAN C	
46-2400-020	ELLIOT C	
46-2400-030	GLACIER GULCH C	
46-2800	REISETER C	TWO BRIDGE C
46-3300	DRIFTWOOD C	
46-3400	CANYON C	CARR C CASS C CHICKEN C
46-3500	KATHLYN C	
46-3500-020	SIMPSON C	
46-3800	TELKWA R	
46-3800-010	GOATHORN C	
46-3800-010-010	TENAS C	
46-3800-010-030	CABINET C	
46-3800-010-030-010	WEBSTER C	
46-3800-010-030-010-010	UNNAMED C	
46-3800-020	PINE C	
46-3800-050	HOWSON C	
46-3800-050-020	SUNSETS C	
46-3800-050-020-020	UNNAMED C	MOOSESKIN JOHNNY C
46-3800-080	WINFIELD C	
46-3800-090	SINCLAIR C	
46-3800-100	TSAI C	
46-3800-100-010	UNNAMED C	
46-3800-110	ELLIOTT C	
46-4100	HELPS C	
46-4300	UNNAMED C	ROUND LAKE C
46-4400	UNNAMED C	COFFIN LAKE C
46-4700	THOMPSON C	
46-4800	VALLEE C	
46-5200	EMERSON C	
46-5300	STOCK C	
46-5500	MORICE R	
46-5500-040	HOUSTON TOMMY C	
46-5500-050	OWEN C	
46-5500-050-090	KLATE C	

LISTING OF STREAMS NUMERICALLY BY WATERSHED CODE - SUBDISTRICT #4D (BULKLEY)

Watershed Code	Gazetted Name	Local Name
46-5500-060	FENTON C	
46-5500-100	LAMPREY C	
46-5500-140	THAUTIL R	
46-5500-140-010	GOSNELL C	
46-5500-140-010-020	UNNAMED C	
46-5500-140-010-030	UNNAMED C	
46-5500-140-010-040	SHEA C	
46-5500-140-010-060	UNNAMED C	
46-5500-140-010-065	UNNAMED C	
46-5500-140-010-070	UNNAMED C	
46-5500-140-050	GABRIEL C	
46-5500-140-070	STARR C	
46-5500-170	UNNAMED C	
46-5500-180	MCBRIDE C	
46-5500-190	NANIKA R	
46-5500-190-020	UNNAMED C	
46-5500-190-040	STEPP C	
46-5500-190-040-080	BERGELAND C	
46-5500-240	ATNA R	
46-5500-240-100	UNNAMED C	
46-5500-240-110	UNNAMED C	
46-5500-240-300	UNNAMED C	
46-5600	BUCK C	
46-6010	BARREN C	
46-6100	MCQUARRIE C	
46-6200	BYMAN C	
46-6400	RICHFIELD C	FINDLEY C
46-6500	CESFORD C	
46-6600	WATSON C	AILPORT C
46-6610	UNNAMED C	SUNSET LAKE C
46-6610-010	UNNAMED C	ELWIN LAKE C
46-6700	CROW C	
46-6800	MAXAN C	
46-6800-010	FOXY C	

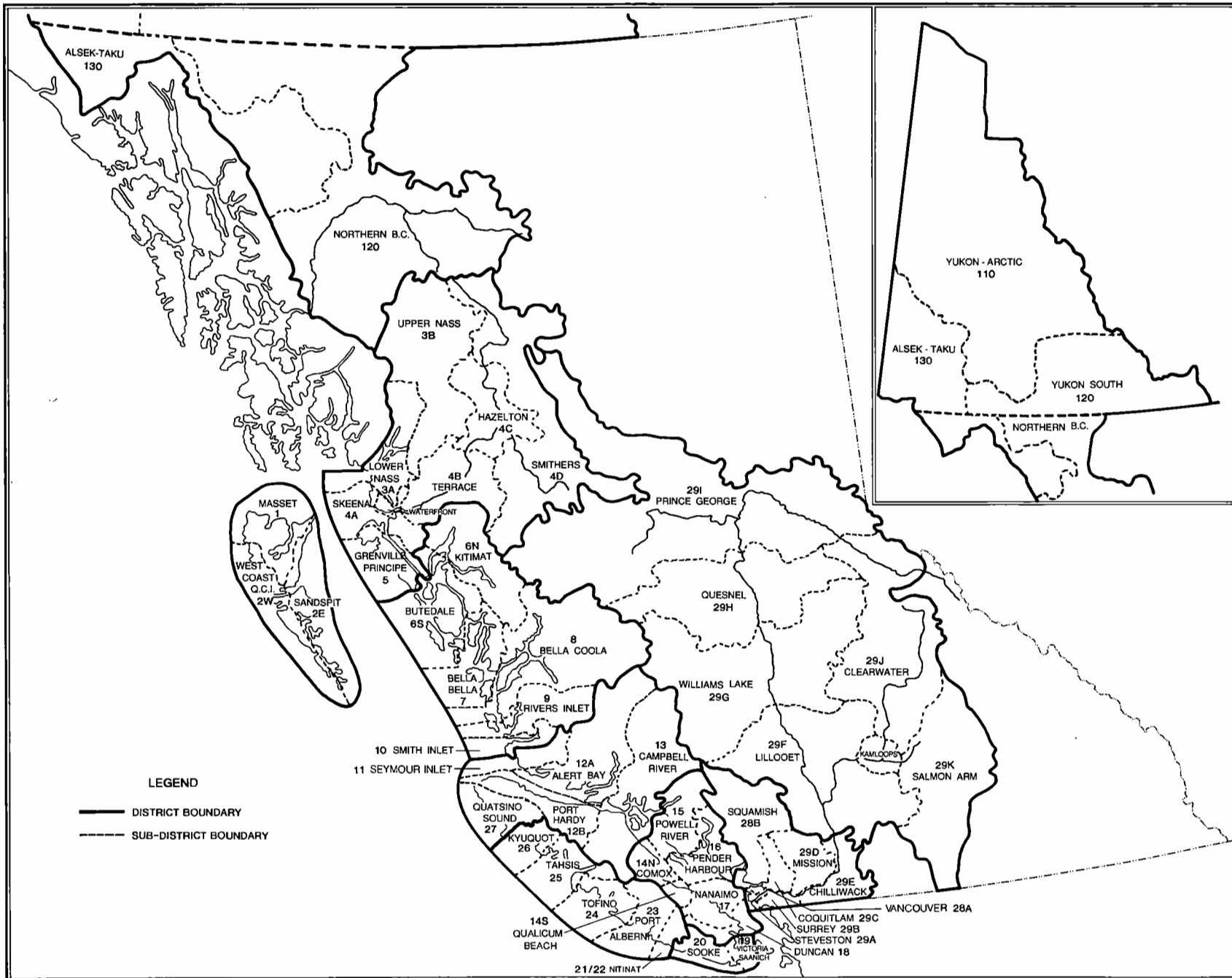
LISTING OF STREAMS ALPHABETICALLY - SUBDISTRICT #4D (BULKLEY)

Watershed Code	Gazetted Name	Local Name
46-5500-240	ATNA R	
46-6010	BARREN C	
46-5500-190-040-080	BERGELAND C	
46-5600	BUCK C	
46	BULKLEY R	
46-6200	BYMAN C	
46-3800-010-030	CABINET C	
46-3400	CANYON C	CARR C CASS C FISH C
46-1900	CAUSQUA C	
46-6500	CESFORD C	
44-2200	COAL C	
46-6700	CROW C	
46-3300	DRIFTWOOD C	
46-2400-020	ELLIOT C	
46-3800-110	ELLIOTT C	
46-5200	EMERSON C	
46-5500-060	FENTON C	
46-6800-010	FOXY C	
46-5500-140-050	GABRIEL C	
46-2400-030	GLACIER GULCH C	
46-3800-010	GOATHORN C	
46-5500-140-010	GOSNELL C	
46-2100	GRAMOPHONE C	
46-4100	HELPS C	
46-5500-040	HOUSTON TOMMY C	
46-3800-050	HOWSON C	
46-2000	JOHN BROWN C	
46-3500	KATHLYN C	CHICKEN C
46-5500-050-090	KLATE C	
46-5500-100	LAMPREY C	
46-6800	MAXAN C	
46-5500-180	MCBRIDE C	
46-6100	MCQUARRIE C	
46-5500	MORICE R	
46-5500-190	NANIKA R	
46-5500-050	OWEN C	
44-2600	PASSBY C	
46-3800-020	PINE C	
46-2800	REISETER C	TWO BRIDGE C
46-6400	RICHFIELD C	FINDLEY C
44-2300	SANDSTONE C	
44-2500	SERB C	
46-5500-140-010-040	SHEA C	
44-2700	SILVERN C	
46-3500-020	SIMPSON C	
46-3800-090	SINCLAIR C	
46-5500-140-070	STARR C	
46-5500-190-040	STEPP C	
46-5300	STOCK C	

LISTING OF STREAMS ALPHABETICALLY - SUBDISTRICT #4D - (BULKLEY)

Page: 2

Watershed Code	Gazetted Name	Local Name
46-3800-050-020	SUNSETS C	
46-3800	TELKWA R	
46-3800-010-010	TENAS C	
46-5500-140	THAUTIL R	
46-4700	THOMPSON C	
46-2400	TOBOGGAN C	
46-2300	TROUT C	SHEDDY C
46-3800-100	TSAI C	
44-2400	UNNAMED C	
44-2540	UNNAMED C	
44-2100	UNNAMED C	
44-2520	UNNAMED C	
44-2600-010	UNNAMED C	HANKIN LAKE C
46-5500-140-010-065	UNNAMED C	
46-5500-140-010-060	UNNAMED C	
46-5500-240-100	UNNAMED C	
46-5500-140-010-070	UNNAMED C	
46-3800-100-010	UNNAMED C	
46-5500-190-020	UNNAMED C	
46-4400	UNNAMED C	COFFIN LAKE C
46-4300	UNNAMED C	ROUND LAKE C
46-5500-240-110	UNNAMED C	
46-6610	UNNAMED C	SUNSET LAKE C
46-5500-240-300	UNNAMED C	
46-3800-050-020-020	UNNAMED C	MOOSESKIN JOHNNY C
46-6610-010	UNNAMED C	ELWIN LAKE C
46-5500-140-010-030	UNNAMED C	
46-5500-140-010-020	UNNAMED C	
46-3800-010-030-010-010	UNNAMED C	
46-5500-170	UNNAMED C	
46-4800	VALLEE C	
46-6600	WATSON C	AILPORT C
46-3800-010-030-010	WEBSTER C	
46-3800-080	WINFIELD C	



- DISTRICT #1 — KAMLOOPS**
 Subdist 29F - Lilloet
 Subdist 29G - Williams Lake
 Subdist 29H - Quesnel
 Subdist 29I - Prince George
 Subdist 29J - Clearwater
 Subdist 29K - Salmon Arm
- DISTRICT #2 — NEW WESTMINSTER**
 Subdist 28A - Vancouver
 Subdist 28B - Squamish
 Subdist 29A - Steveston
 Subdist 29B - Surrey
 Subdist 29C - Coquitlam
 Subdist 29D - Mission
 Subdist 29E - Chilliwack
- DISTRICT #3 — NANAIMO**
 Subdist 14S - Qualicum Beach
 Subdist 14N - Comox
 Subdist 15 - Powell River
 Subdist 16 - Pender Harbour
 Subdist 17 - Nanaimo/Ladysmith
 Subdist 18 - Duncan (Cowichan)
- DISTRICT #4 — PORT ALBERNI**
 Subdist 21/22 - Nitinat
 Subdist 23 - Port Alberni
 Subdist 24 - Tofino
 Subdist 25 - Tahsis
 Subdist 26 - Kyuquot
- DISTRICT #5 — CAMPBELL RIVER**
 Subdist 11 - Seymour Inlet
 Subdist 12 - Alert Bay/Port Hardy
 Subdist 13 - Campbell River
 Subdist 27 - Quatsino Sound
- DISTRICT #6 — VICTORIA**
 Subdist 19 - Victoria/Saanich
 Subdist 20 - Sooke
- DISTRICT #7 — CENTRAL COAST**
 Subdist 6 - Kitimat/Butedale
 Subdist 7 - Bella Bella
 Subdist 8 - Bella Coola
 Subdist 9 - Rivers Inlet
 Subdist 10 - Smith Inlet
- DISTRICT #8 — PRINCE RUPERT**
 Subdist 3A - Lower Nass
 Subdist 3B - Upper Nass
 Subdist 4A - Lower Skeena
 Subdist 4B - Terrace
 Subdist 4C - Hazelton
 Subdist 4D - Smithers
 Subdist 5 - Grenville Principe
- DISTRICT #9 — QUEEN CHARLOTTE ISLANDS**
 Subdist 1 - Masset
 Subdist 2W - West Coast Q.C.I.
 Subdist 2E - Sandspit
- DISTRICT #10 — WHITEHORSE**
 Subdist 110 - Yukon Arctic
 Subdist 120 - Yukon - North B.C.
 Subdist 130 - Alsek - Taku

DFO PACIFIC REGION SUBDISTRICTS AND DISTRICTS

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Region 1: VANCOUVER ISLAND

Regional Headquarters: Nanaimo
2569 Kenworth Rd.,
Nanaimo, B.C.
V9T 4P7

Region 2: LOWER MAINLAND

Regional Headquarters: Surrey
10334-152A St.,
Surrey, B.C.
V5R 7P8

Region 3: SOUTHERN INTERIOR

Regional Headquarters: Kamloops
1259 Dalhousie Dr.,
Kamloops, B.C.
V2C 5Z5

Sub-Regional Office: Penticton
3547 Skaha Lake Rd.,
Penticton, B.C.
V2A 7K2

Region 4: KOOTENAY

Regional Headquarters: Nelson
310 Ward St.,
Nelson, B.C.
V1L 5S4

Cranbrook Office
106-5th Ave. S.,
Cranbrook, B.C.
V1C 2G2

Region 5: NORTHERN

Regional Headquarters: Prince George
1011-4th Ave.,
Prince George, B.C.
V2L 3H9

Sub-Regional Office: Williams Lake
540 Borland St.,
Williams Lake, B.C.
V2G 1R8

Fort St. John Office
10142-101st Ave.,
Fort St. John, B.C.
V1J 2B3

Region 6: SKEENA

Regional Headquarters: Smithers
3726 Alfred Ave.,
Bag 5000
Smithers, B.C.
V0J 2N0

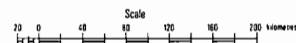


Province of British Columbia

**MINISTRY OF ENVIRONMENT
REGIONAL BOUNDARIES**

Revised October 1989

- Regional Boundary and Number — 4
- Regional Centre ●
- Sub Regional Centre ○

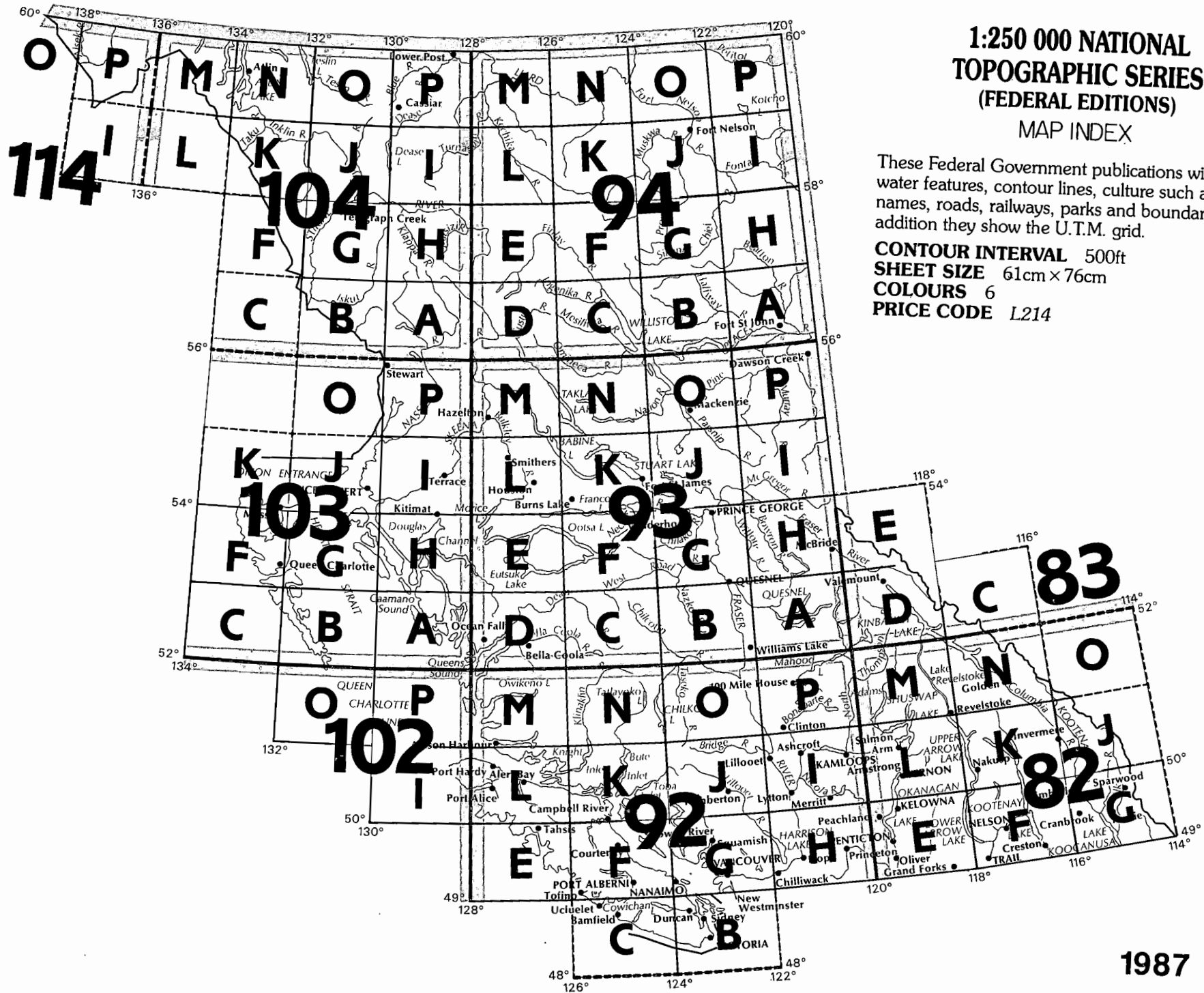


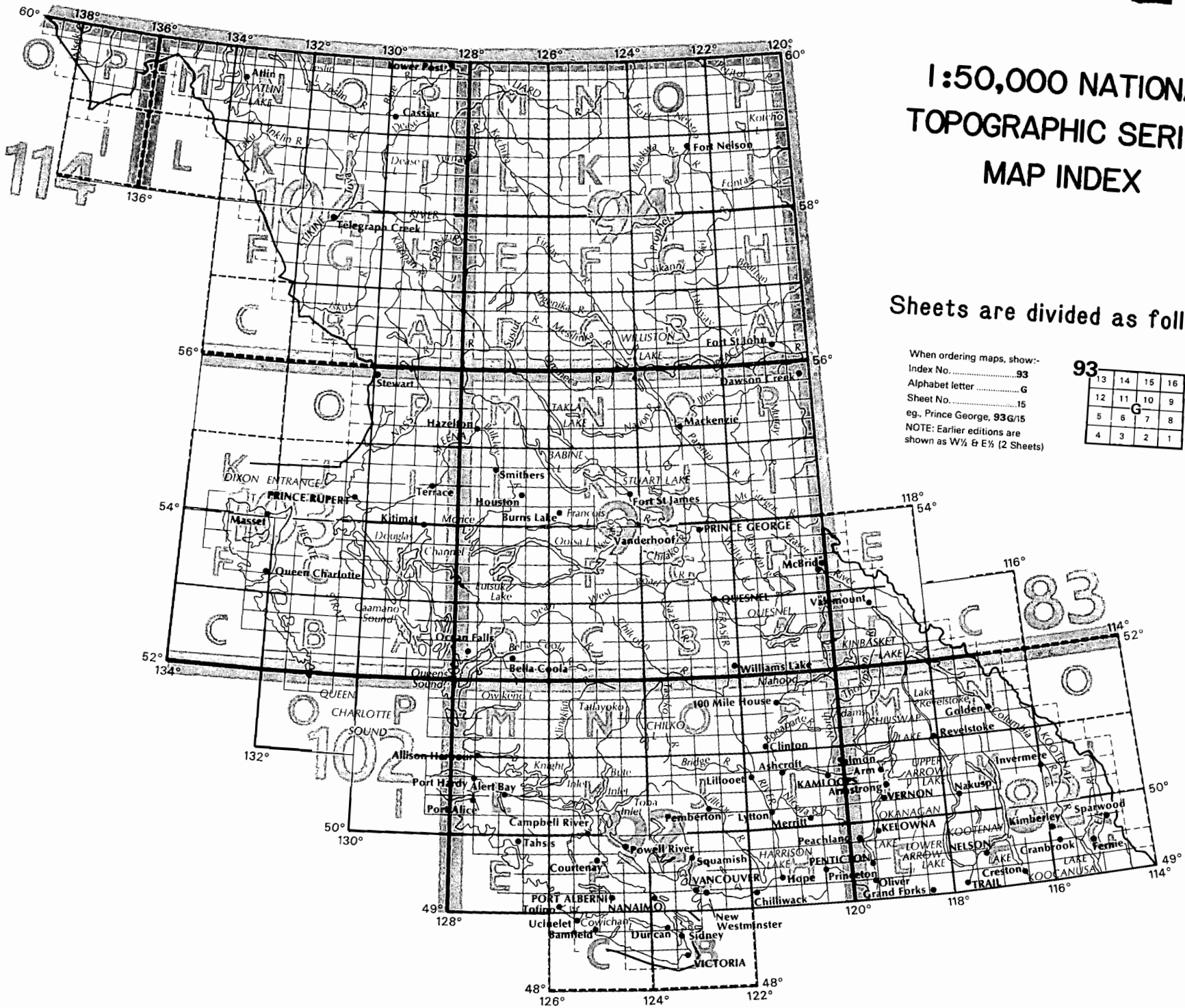
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(FEDERAL EDITIONS)**

MAP INDEX

These Federal Government publications will show water features, contour lines, culture such as place names, roads, railways, parks and boundaries. In addition they show the U.T.M. grid.

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PRICE CODE L214





1:50,000 NATIONAL TOPOGRAPHIC SERIES MAP INDEX

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When ordering maps, show:-
 Index No. 93
 Alphabet letter G
 Sheet No. 15
 eg. Prince George, 93G/15
 NOTE: Earlier editions are shown as W½ & E½ (2 Sheets)

93

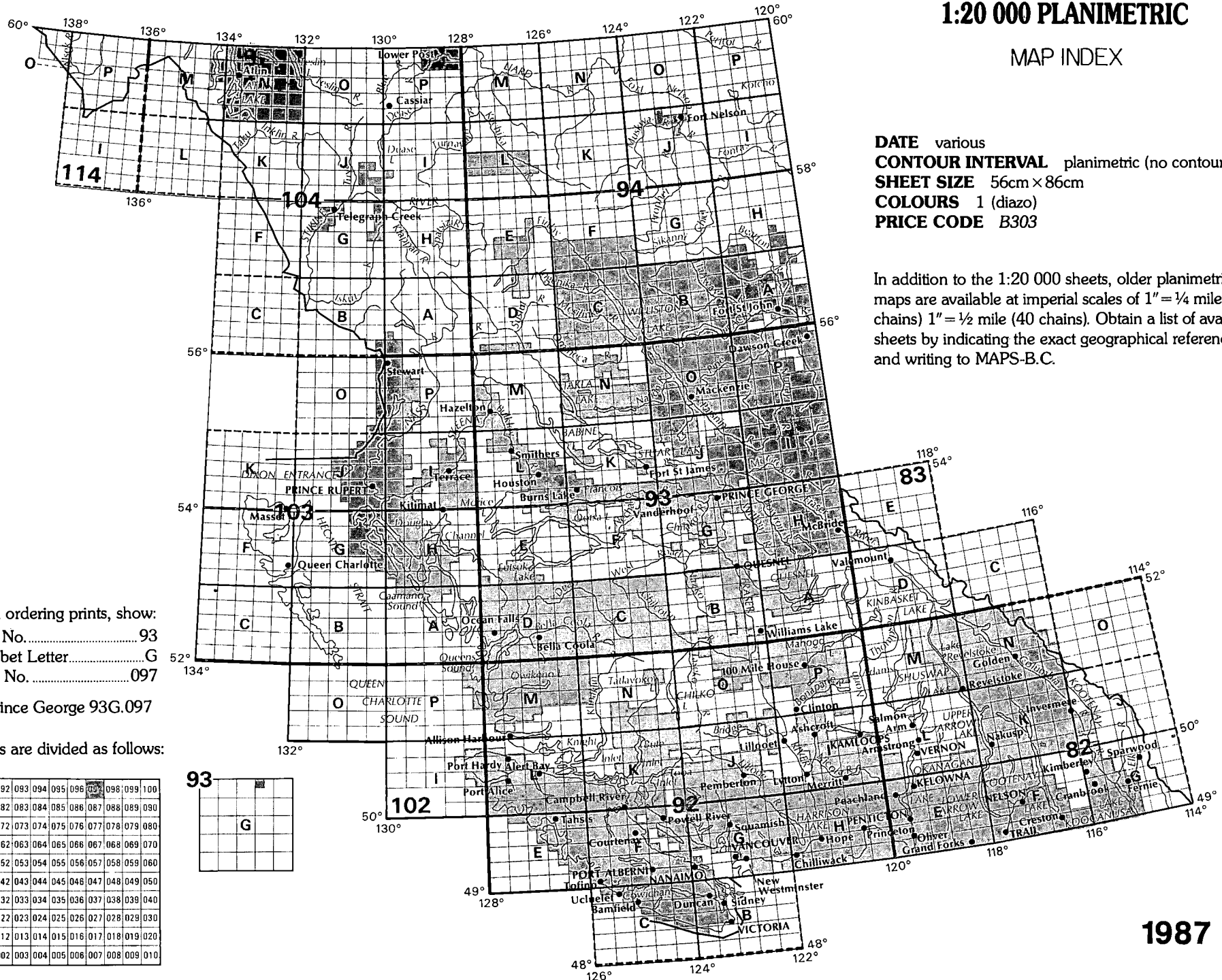
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12	11	10	9
5	8	7	8
4	3	2	1

1:20 000 PLANIMETRIC

MAP INDEX

DATE various
 CONTOUR INTERVAL planimetric (no contours)
 SHEET SIZE 56cm x 86cm
 COLOURS 1 (diaz)
 PRICE CODE B303

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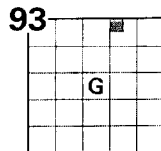
When ordering prints, show:

Index No. 93
 Alphabet Letter G
 Sheet No. 097

eg. Prince George 93G.097

Sheets are divided as follows:

091	092	093	094	095	096	097	098	099	100
081	082	083	084	085	086	087	088	089	090
071	072	073	074	075	076	077	078	079	080
061	062	063	064	065	066	067	068	069	070
051	052	053	054	055	056	057	058	059	060
041	042	043	044	045	046	047	048	049	050
031	032	033	034	035	036	037	038	039	040
021	022	023	024	025	026	027	028	029	030
011	012	013	014	015	016	017	018	019	020
001	002	003	004	005	006	007	008	009	010



DPO PACIFIC REGION - SUBDISTRICTS AND DISTRICTS

**DISTRICT/
Subdistrict**

Address

DISTRICT #1

- Kamloops
1278 Dalhousie Dr., Kamloops, V2C 2E9
Salmon Arm (29K) Box 1160, Salmon Arm, V0E 2T0
Prince George (29I) 2392 Ospika Blvd., Prince George, V2N 3N5
Clearwater (29J) Box 610, Clearwater, V0E 1N0
Lillooet (29F) Box 315, Lillooet, V0K 1V0
Quesnel (29H) 1205 North Highway 97, Quesnel, V2J 2Y3
Williams Lake (29G) 260-D N. Broadway, Williams Lake, V2G 2X9

DISTRICT #2

- New Westminster
301-80 6th St., New Westminster, V3L 5B3
Vancouver (28A) 301-80 6th St., New Westminster, V3L 5B3
Surrey (29B) 301-80 6th St., New Westminster, V3L 5B3
Coquitlam (29C) 301-80 6th St., New Westminster, V3L 5B3
Steveston (29A) 12551 No. 1 Road, Richmond, V7E 1T7
Squamish (28B) Box 85, Squamish, V0N 3G0
Mission (29D) Box 3308, Mission, V2V 4J5
Chilliwack (29E) 45742A Yale Rd. West, Chilliwack, V2P 2N4

DISTRICT #3

- Nanaimo
305-60 Front St., Nanaimo, V9R 5H7
Nanaimo/Ladysmith(17) 305-60 Front St., Nanaimo, V9R 5H7
Qualicum Beach (14S) Box 1270, Qualicum Beach, V0R 2T0
Comox (14N) 148 Port Augusta St., Comox, V9N 7Z4
Duncan (Cowichan)(18) Box 241, Duncan, V9L 3X3
Powell River (15) 7255 Duncan St., Powell River, V8A 5M6

DISTRICT #4

- Port Alberni
3019 Fourth Ave., Port Alberni, V9Y 2B8
Port Alberni (23) 3019 Fourth Ave., Port Alberni, V9Y 2B8
Nitinat (22) 3019 Fourth Ave., Port Alberni, V9Y 2B8
Kyuquot (26) Box 549, Tahsis, V0P 1X0
Tahsis (25) Box 549, Tahsis, V0P 1X0
Tofino (24) Box 48, Tofino, V0R 2Z0

DISTRICT #5

- Campbell River
940 Alder St., Campbell River, V9W 2P8
Campbell River (13A) 940 Alder St., Campbell River, V9W 2P8
Sayward (13B) 940 Alder St., Campbell River, V9W 2P8
Port Hardy (12B) Box 10, Port Hardy, V0N 2P0
Alert Bay (12A) Box 9, Alert Bay, V0N 1A0
Seymour Inlet (11) Box 10, Port Hardy, V0N 2P0
Quatsino Sound (27) Box 10, Port Hardy, V0N 2P0

**DISTRICT/
Subdistrict**

Address

DISTRICT #6

- Victoria
423-1230 Government St., Victoria, V8W 1Y3
Victoria/Saanich (19) 423-1230 Government St., Victoria, V8W 1Y3
Sooke (20) Box 460, Sooke, V0S 1N0

DISTRICT #7

- Central Coast
Kitimat (6N) 117-417 2nd Ave. West, Prince Rupert, V8J 1G8
Butedale (6S) 315-450 Federal Building, Kitimat, V8C 1T6
Bella Bella (7) 115-417 2nd Ave. West, Prince Rupert, V8J 1G8
Bella Coola (8) Box 38, Bella Bella, V0T 1B0
Rivers Inlet (9) Box 130, Bella Coola, V0T 1C0
Smith Inlet (10) Dawsons Landing P.O., Rivers Inlet, V0N 1M0
Dawsons Landing P.O., Rivers Inlet, V0N 1M0

DISTRICT #8

- Prince Rupert
Waterfront 109-417 2nd Ave. West, Prince Rupert, V8J 1G8
Lower Skeena (4A) 109-417 2nd Ave. West, Prince Rupert, V8J 1G8
Grenville-Principe(5) 109-417 2nd Ave. West, Prince Rupert, V8J 1G8
Lower Nass (3A) 109-417 2nd Ave. West, Prince Rupert, V8J 1G8
Upper Nass (3B) Box 29, Nass Camp, V0J 3J0
Hazelton (4C) Box 490, New Hazelton, V0J 2J0
Smithers (4D) Box 578, Smithers, V0J 2N0
Terrace (4B) 4721-B Latelle Ave., Terrace, V8G 1R6

DISTRICT #9

- Queen Charlotte Islands
West Coast Q.C.I.(2W) Box 99, Queen Charlotte City, V0T 1S0
Masset (1) Box 99, Queen Charlotte City, V0T 1S0
Sandspit (2E) Box 99, Masset, V0T 1M0
Box 222, Sandspit, V0T 1T0

DISTRICT #10

- Whitehorse
Yukon-North B.C. (120) 122 Industrial Rd., Whitehorse, Y.T., Y1A 2T9
Yukon-Arctic (110) 122 Industrial Rd., Whitehorse, Y.T., Y1A 2T9
Aisek-Taku (130) Box 5341, Haines Junction, Y.T., Y0B 1L0

2.0 USER GUIDES

2.1 STREAM INFORMATION SUMMARY (SIS)

The Stream Information Summary (SIS) form, designed by the Fish Habitat Inventory & Information Program, has been used by Departmental staff and contractors to compile existing information on a stream by stream basis. A companion computer database, the Stream Information Summary System (SISS), is designed for the input, storage and output of SIS information. The SISS "User's Manual" provides details on coding SIS forms and operation of the computer system. A number of codes are used during data entry to SISS. In all cases the equivalent of the code is printed on the SISS output. Notwithstanding, a complete list of codes is provided in Tables 1 and 2. Most information on the SIS form is linked to a reference number. The source of the information can, therefore, be determined from the reference list at the back of each SIS printout. Although the preparation of Stream Information Summaries has been thorough, the focus has been on collecting key information rather than all information. The phrase "no information available" appears on the SIS printout when no information on that subject is contained in the database. The summaries will be updated using SISS as more information becomes available or as more detailed literature searches are undertaken.

Stream Information Summaries, arranged by watershed code, are included in Section 3.0 of the catalogue. The following describes the content of each section in the SIS form and printout (Fig. 2.1).

A. DESCRIPTION

A.1 Stream Name:

The official stream name listed in the "Gazetteer of Canada" or the primary alias is displayed here. The primary alias may be used if the gazetted name is unavailable.

A.2 Local Name

Any local name(s) are listed.

A.3 Watershed Code:

The watershed code is a unique number which identifies a stream and the watershed that it is in. The hierarchical nature of the watershed coding system allows features associated with basins or channels to be aggregated or separated to the desired level of detail. A dictionary of watershed codes is available from the Water Management Branch, Ministry of Environment, Victoria.

A.4 Tributaries:

A list of tributaries to the stream is provided. The "code" when added to the stream's watershed code gives the tributary watershed code. Example:

Cowichan River watershed code= 92-4800
Koksilah River code= 020
Koksilah River watershed code= 92-4800-020

A.5 DFO Division, District, Subdistrict & Statistical Subarea:

The DFO management areas in which the stream mouth is located are listed.

A.6 MOE Region, Management Unit:

The MOE management areas in which the stream mouth is located are listed.

A.7 Topographic (1:50K) Map, BCGS (1:20K) Map:

Codes of the National Topographic Series (NTS) map sheet and the British Columbia Geographic System (BCGS) map sheet that show the stream mouth are listed here.

A.8 U.T.M. Mouth:

The Universal Transverse Mercator (UTM) coordinates of the stream mouth are listed. UTM is a metric grid reference system displayed on most 1:50,000 scale NTS maps.

A.9 Lat./Long. Mouth:

The latitude and longitude (degrees, minutes and seconds) of the stream mouth are listed.

A.10 Mainstream Length:

The total mainstem length is provided in kilometres.

A.11 Watershed Area:

The area of the stream's watershed is given in square kilometers.

A.12 Location:

The general location of the stream is listed.

A.13 Gradient:

Location(s) given as a range of kilometers upstream from the mouth are provided for five gradient classes: 0-0.5%, 0.5-2%, 2-5%, 5-10%, 10+%. Any comments on gradient are also listed in this field.

B. OBSTRUCTIONS TO MIGRATION

This section lists barrier type, the height of the barrier (m) as appropriate, the barrier location in kilometers upstream from mouth, the species that are obstructed and any additional comments.

C. FLOW

This section indicates if there is flow control on the system (Y or N), if there is a Water Survey of Canada (WSC) Flow Gauge (Y or N), the station nos. and any comments on flow (eg. low flows, floods).

D. DISTRIBUTION SUMMARY

Species and watershed distribution including spawning, rearing, overwintering, holding, and migration areas are listed.

E. ESCAPEMENT SUMMARY

This section lists the species, mean escapement for a specified period of record, maximum recorded escapement for the same period, management target escapement and any comments on escapement.

F. LIFE HISTORY TIMING

Life history timing is provided by species for each one-half month period by the following activities: migration, spawning, incubation and rearing. The timing of these activities is indicated by an X and the peak by a P.

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Listed in this section are the type of activity, the species affected by the activity, location of the facility in kilometers upstream of the mouth, comments and period of operation.

H. LAND USE/WATER USE/WATER QUALITY

This section lists the type of activity and description of land use; water use or activities affecting water quality.

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

This section may provide comments on fish production potential including habitat potential, constraints to production, opportunities for restoration or enhancement, watershed sensitivity, quality of information to assess the above and the need for inventory data collection.

J. FISHERY OFFICER NARRATIVE

This section indicates the date and person who may have prepared a Fishery Officer Narrative on the stream.

K. SIS COMPLETED BY:

The name of the person(s) completing, checking or updating the information and date (year/month/day) are listed. "Updated by" indicates that some sections of the Stream Information Summary have been revised. These sections are indicated in the database.

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

--

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by:	Date:
---------------	-------

TABLE 1. LIST OF CODESStream Name

R River
 C Creek
 S Slough
 B Brook
 G Gulch

Management Activities

CC Creel Census
 CF Counting Fence
 FS Fish Sampling
 MR Mark Recovery

Barrier Type

BD Beaver Dam
 C Cascade, Chute
 CV Culvert
 D Dam
 F Falls (type unknown)
 R Rock
 X Log Jam

Land Use/Water Use/Water Quality

AG Agriculture
 DA Dams
 FO Forestry
 IP Industrial Processing
 LD Linear Development
 MI Mining
 PR Parks
 RE Reserves
 UD Urban Development
 WQ Water Quality (ie. activities adversely affecting water quality)
 WW Water Withdrawal

Enhancement Activities

BX Incubation box
 CH Spawning channel
 CO Colonization from existing hatchery
 EI Estuary improvement
 FC Flow control
 FP Multiple fish production strategies
 FT Lake fertilization
 FW Fishway
 HC Combination channel/hatchery
 HX Multiple combination hatchery, channel, flow control
 HY Conventional hatchery
 JH Hatchery, primarily Japanese style technique
 LJ Log jam removal
 OR Obstruction removal
 SC Side channel
 SI Stream improvement
 TR Transplant
 TT Trap/truck over obstruction

TABLE 2. FISH SPECIES CODES

AGB	BROWN TROUT (ANAD)	GR	GRAYLING ARCTIC
AC	ARCTIC CHAR	GSG	GREEN STURGEON
ACT	CUTTHROAT TROUT (ANAD)	HW	HUMPBACKED WHITFISH
ADV	DOLLY VARDEN (ANAD)	IN	INCONNU
ACB	BROOK TROUT (ANAD)	KO	KOKANEE
AF	ALL FISH	L	LAMPREYS (GENERAL)
AL	ARCTIC LAMPREY	LDC	LEOPARD DACE
AO	ALL <u>ONCORHYNCHUS</u>	LKC	LAKE CHUB
AS	ATLANTIC SALMON	LMB	LARGEMOUTH BASS
ASM	ARCTIC SMELT	LNC	LONGNOSE DACE
BB	BURBOT	LSM	LONGFIN SMELT
BCB	BLACK CRAPPIE	LSU	LONGNOSE SUCKER
BH	CATFISH NERAL	LT	LAKE TROUT
BKH	BLACK BULLHEAD	LW	LAKE WHITEFISH
BL	WESTERN BROOK LAMPREY	MSU	NORTHERN MOUNTAIN SUCKER
BMC	BRASSY MINNOW	MW	ROCKY MOUNTAIN WHITEFISH
BNH	BROWN BULLHEAD	NP	NORTHERN PIKE
BS	BASS/SUNFISH (GENERAL)	NSC	NORTHERN SQUAWFISH
BSB	BROOK STICKLEBACK	P	PERCH (GENERAL)
BSU	BRIDGELIP SUCKER	PCC	PEAMOUTH CHUB
BW	BROAD WHITEFISH	PDC	NORTHERN PEARL DACE
C	MINNOWS (GENERAL)	PK	PINK SALMON
CA	ARCTIC CISCO	PL	PACIFIC LAMPREY
CAL	ALEUTIAN SCULPIN	PMB	PUMPKINSEED
CAS	PRICKLY SCULPIN	PW	PIGMY WHITEFISH
CBA	MOTTLED SCULPIN	RB	RAINBOW TROUT
CBC	CHUB (GENERAL)	RDC	NORTHERN REDBELLY DACE
CC	SCULPINS (GENERAL)	RL	RIVER LAMPREY
CCG	SLIMY SCULPIN	RSC	REDSIDED SHINER
CCN	SHORthead SCULPIN	RW	ROUND WHITEFISH
CH	CHINOOK SALMON	SA	SALMON (GENERAL)
CL	LAKE HERRING/CISCO/TULIBEE	SB	STICKLEBACKS (GENERAL)
CLA	STAGHORN SCULPIN	SDC	SPECKLED DACE
CM	CHUM SALMON	SFL	STARRY FLOUNDER
CMC	CHISELMOUTH CHUB	SG	STURGEONS (GENERAL)
CO	COHO SALMON	SH	AMERICAN SHAD
CP	CARP	SK	SOCKEYE SALMON
CRH	TORRENT SCULPIN	SM	SMELTS (GENERAL)
CRI	SPOONHEAD SCULPIN	SMB	SMALLMOUTH BASS
CS	LEAST CISCO	ST	STEELHEAD
CSU	LARGESCALE SUCKER	STC	SPOTTAIL SHINER
CT	CUTTHROAT TROUT	SU	SUCKERS (GENERAL)
DC	DACE	TC	TENCH
DV	DOLLY VARDEN	TP	TROUTPERCH
EB	BROOK TROUT	TR	TROUT (GENERAL)
ESC	EMERALD SHINER	TSB	THREESpine STICKLEBACK
EU	EULACHON	WF	WHITEFISH (GENERAL)
FDC	FINESCALE DACE	WP	WALLEYE
FHC	FLATHEAD CHUB	WSG	WHITE STURGEON
GAM	MOSQUITOFISH	WSU	WHITE SUCKER
GB	BROWN TROUT	YCT	YELLOWSTONE CUTTHROAT
GC	GOLDFISH	YP	YELLOWPERCH
GE	GO		

2.2 ESCAPEMENT

The last feature of a Stream Information Summary is the Escapement Profile (Fig. 2.2). Briefly this Escapement profile contains the following:

- Page A: The first page is a tabular summary of annual escapement by species from 1953 to the most current data year.
- Pages B & C: When five or more years of data are available, graphs and tables of species escapement and spawn timing are displayed.
- Page D: Two diagrams portray average watershed escapement by species, and escapement as a percentage of the Department of Fisheries and Oceans management units - Subdistrict / District / Division.

A detailed description of each page follows.

Escapement Profile: Detailed Description.

Page A:

The first page is a tabular summary of annual escapement by species from 1953 to the most current data year.

Pages B & C:

Pages B & C contain three rows of panels for the five species of salmon plus steelhead. When data are not available, the panel appears blank. The species are always arrayed from left to right in the following order:

sockeye, coho, pink, chum, chinook, steelhead.

The upper row of six panels contain the annual escapement by species for the past twenty years. The middle row of six panels display spawn timing for the same species and period. The vertical bar indicates the annual start and end of spawning, while the lateral connecting line indicates each year's peak of spawning. The lower row of six panels contain the annual escapement and spawn timing data presented in the upper and middle row of panels.

Page D:

This page contains two diagrams:

- The upper pie chart diagram portrays by species the ten year average watershed escapement and proportional species percentage. Pink even and odd year runs have been combined to provide a 10 year mean.
- The lower histogram illustrates the watershed's escapement as a proportion of the Department of Fisheries and Oceans management units (SUB=Subdistrict / DIS=District / DIV=Division).

The escapement information displayed in pages A,B&C,D of the Escapement Profile was compiled from the Salmon Escapement Data System (SEDS) managed by the Department of Fisheries and Oceans Pacific and Biological Station, Nanaimo. The escapement numbers in this system are from the DFO Annual Report of Salmon Streams and Spawning Populations (BC 16) completed by each subdistrict fishery officer/patrolman following annual stream inspections. Wherever possible SEDS data has been checked against Farwell, M.K., et al. (1987) Can. Data Rep. Fish. Aquat. Sci. #601, (Salmon Escapement to Streams Entering Statistical Areas 28 and 29, 1951 to 1985 and Fraser River, Northern B.C. and Yukon Division management biologist's escapement records in order to provide the best escapement numbers available at the time of publishing. The design and layout of the Escapement Profile was cooperatively developed by the SIS Working Group and SEDS managers.

2.3 BIBLIOGRAPHY

Section 4.0 contains a bibliography of all references used in preparing the Stream Information Summaries. References are arranged both numerically and alphabetically by author. Each citation contains a **reference number, author, description** including title, date and publisher, **location** where the reference can be obtained and **keywords** describing the reference.

2.4 STREAM INFORMATION SUMMARY MAP

During the preparation of Stream Information Summary (SIS) forms, maps of fish distribution, major spawning areas, obstructions to migration and enhancement facilities were drafted on 1:50,000 National Topographic Series bases. Reduced (11" x 17") black and white copies of 1:50,000 topographic maps are contained in Section 5.0 of this catalogue.

ESCAPEMENT : EXAMPLE RIVER

WATERSHED-CODE : 93-1000

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	1500	0	750	400	400
1954	0	3500	1500	1500	400	400
1955	0	3500	0	400	200	750
1956	0	7500	1500	200	25	750
1957	0	7500	N/O	750	200	750
1958	0	15000	750	1500	200	750
1959	0	7500	N/O	750	200	750
1960	75	15000	400	1500	1500	400
1961	75	35000	N/O	400	400	750
1962	75	15000	400	1500	400	0
1963	25	7500	0	400	400	750
1964	25	75000	25	1500	1500	0
1965	1500	15000	0	1500	750	0
1966	1500	15000	0	400	1500	0
1967	1500	35000	750	750	400	0
1968	1500	15000	0	3500	750	0
1969	200	15000	0	200	400	400
1970	3500	75000	0	7500	7500	0
1971	25	7500	0	N/O	400	0
1972	1500	15000	0	3500	3500	0
1973	N/O	15000	0	200	3500	N/O
1974	75	7500	75	N/O	750	0
1975	75	1500	N/O	200	200	N/O
1976	75	750	75	N/O	75	0
1977	200	400	0	25	75	0
1978	200	2850	0	25	50	150
1979	0	3500	25	25	400	0
1980	0	3000	200	100	500	0
1981	N/O	3500	75	200	750	0
1982	400	8400	200	225	775	0
1983	400	7500	200	200	775	0
1984	0	9000	200	500	1200	0
1985	N/O	500	N/O	300	150	0
1986	100	16000	100	10500	487	0
1987	N/O	12000	N/O	2000	600	0
1988						
1989						
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

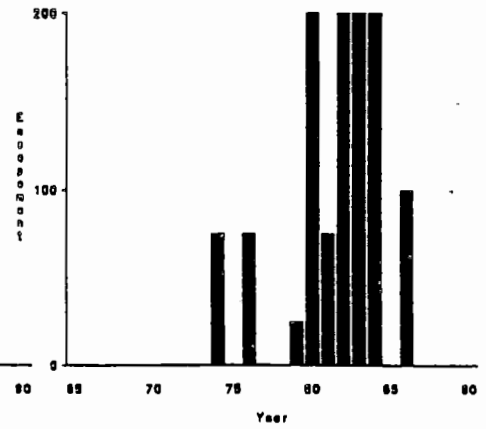
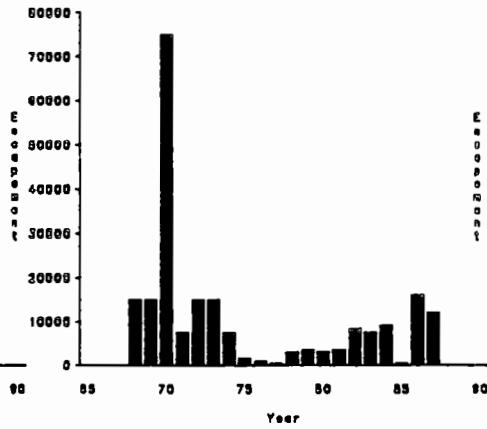
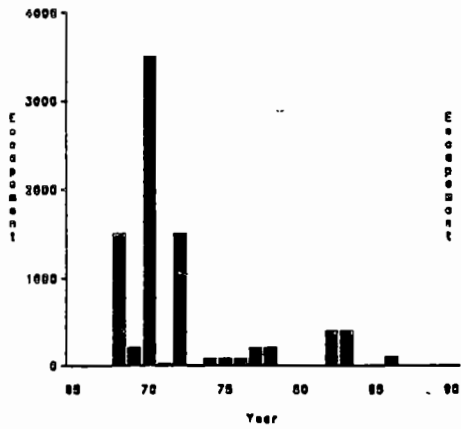
EXAMPLE RIVER (93-1000)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

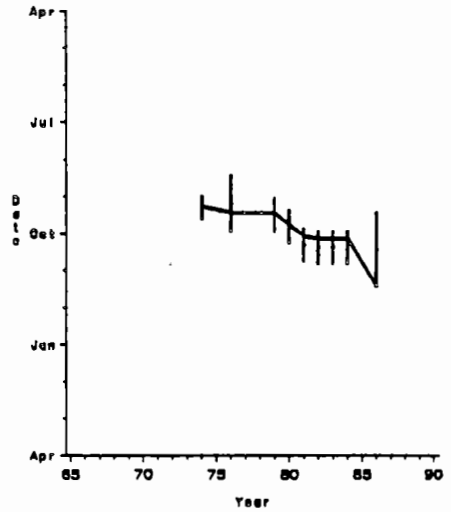
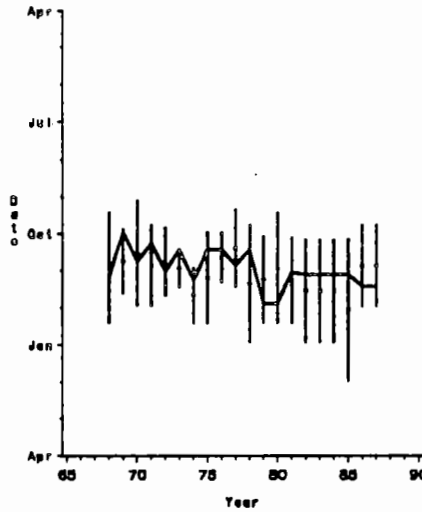
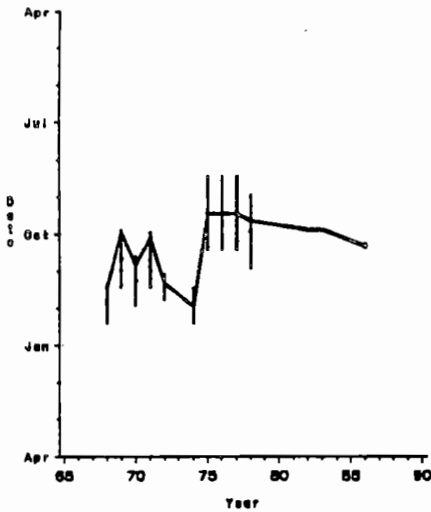
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1966	1,500	12NOV	18NOV	18DEC
1969	200	23SEP	30SEP	16NOV
1970	3,500	29OCT	13NOV	30NOV
1971	25	30SEP	09OCT	16NOV
1972	1,500	04NOV	12NOV	23NOV
1973	0	-	-	-
1974	75	16NOV	01DEC	16DEC
1975	75	13NOV	18NOV	18OCT
1976	75	18NOV	18NOV	18OCT
1977	200	18NOV	18NOV	18OCT
1978	200	26NOV	21NOV	20OCT
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	400	28SEP	23SEP	21NOV
1983	400	28SEP	23SEP	23NOV
1984	0	-	-	-
1985	0	-	-	-
1986	100	19OCT	13OCT	13OCT
1987	0	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1966	16,000	18SEP	07NOV	18DEC
1969	16,000	22SEP	20NOV	20NOV
1970	76,000	08SEP	25OCT	30NOV
1971	7,500	22SEP	19OCT	30NOV
1972	16,000	27SEP	02NOV	23NOV
1973	16,000	18OCT	19OCT	18NOV
1974	7,500	30OCT	19NOV	18DEC
1975	1,500	01NOV	15OCT	18DEC
1976	750	01NOV	15OCT	11NOV
1977	400	12NOV	29OCT	13NOV
1978	2,500	22SEP	15OCT	31DEC
1979	3,000	04NOV	29NOV	18DEC
1980	3,000	18NOV	29NOV	18DEC
1981	3,500	08NOV	03NOV	18DEC
1982	0,400	07NOV	06NOV	31DEC
1983	7,500	07NOV	06NOV	31DEC
1984	0,000	07NOV	06NOV	31DEC
1985	000	07NOV	06NOV	31JAN
1986	16,000	25SEP	16NOV	01DEC
1987	12,000	22SEP	16NOV	01DEC

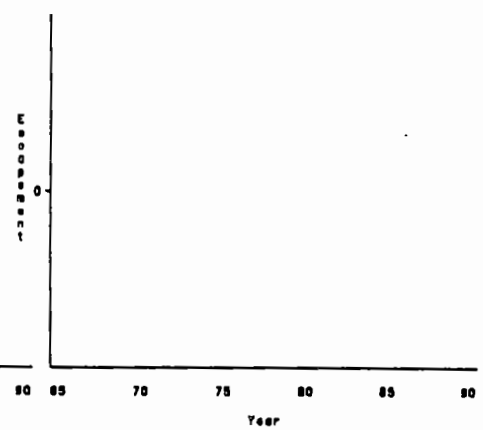
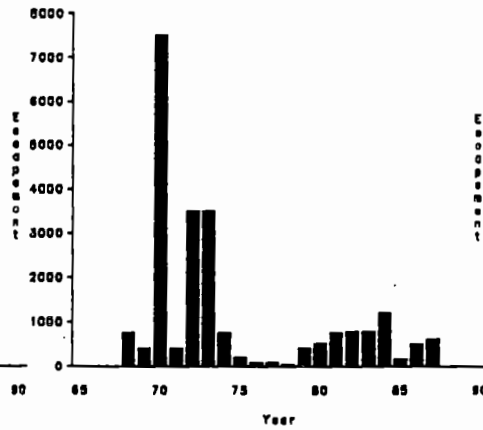
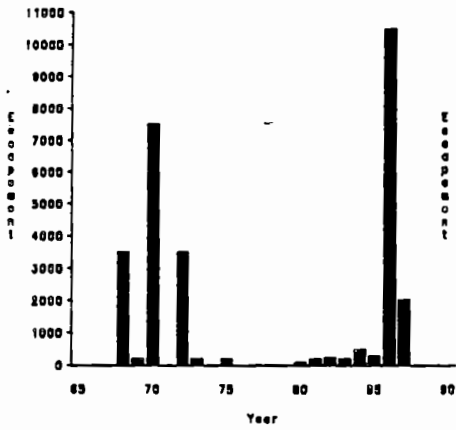
Pink				
Year	Escapement	Start	Peak	End
1966	0	-	-	-
1969	0	-	-	-
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	70	01SEP	19SEP	29SEP
1975	0	-	-	-
1976	70	18NOV	15OCT	30SEP
1977	0	-	-	-
1978	0	-	-	-
1979	20	03SEP	15SEP	30SEP
1980	200	13SEP	28SEP	18OCT
1981	75	18SEP	04OCT	25OCT
1982	200	30SEP	09OCT	27OCT
1983	200	30SEP	09OCT	27OCT
1984	200	30SEP	09OCT	27OCT
1985	0	-	-	-
1986	100	18SEP	16NOV	16NOV
1987	0	-	-	-

EXAMPLE RIVER (93-1000)
Escapement & Run Timing

Chum (CM)

Chinook (CH)

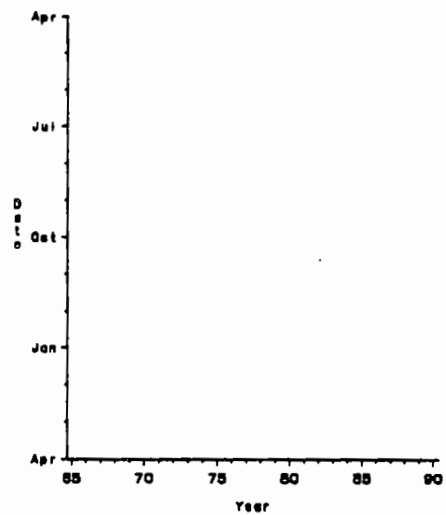
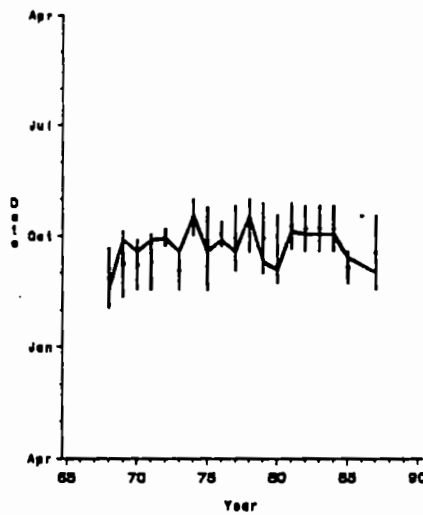
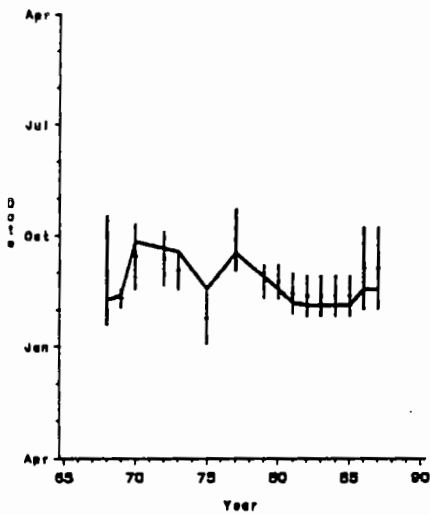
Steelhead (ST)



Chum

Chinook

Steelhead



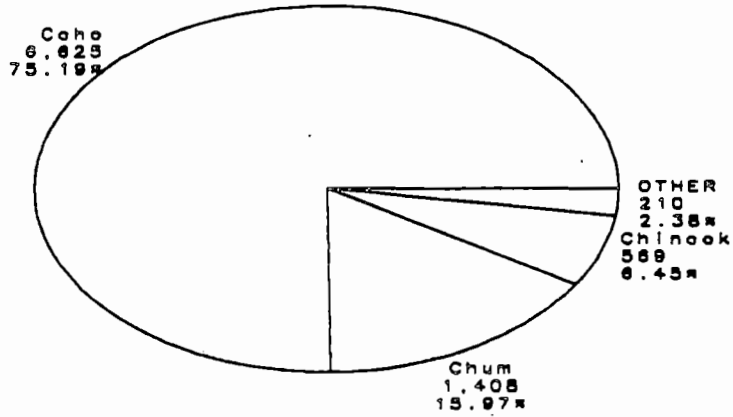
Year	Escapement	Start	Peak	End
1966	3,500	16SEP	24NOV	18DEC
1969	200	15NOV	28NOV	30NOV
1970	7,500	22SEP	07OCT	15NOV
1971	0	-	-	-
1972	3,500	29SEP	-	12NOV
1973	200	19OCT	19OCT	18NOV
1974	0	-	-	-
1975	200	17NOV	18NOV	31DEC
1976	0	-	-	-
1977	25	19SEP	19OCT	26OCT
1978	25	-	-	-
1979	25	26OCT	09NOV	12NOV
1980	100	25OCT	18NOV	12NOV
1981	200	02NOV	28NOV	06DEC
1982	125	04NOV	28NOV	07DEC
1983	200	04NOV	28NOV	07DEC
1984	200	04NOV	28NOV	07DEC
1985	200	04NOV	28NOV	07DEC
1986	10,500	22SEP	18NOV	01DEC
1987	2,000	22SEP	18NOV	01DEC

Year	Escapement	Start	Peak	End
1968	700	12OCT	16NOV	24NOV
1969	400	25SEP	09OCT	27NOV
1970	7,500	09OCT	19OCT	15NOV
1971	400	22SEP	09OCT	12NOV
1972	3,500	28SEP	04OCT	10OCT
1973	2,000	19OCT	19OCT	18NOV
1974	700	01SEP	16SEP	01OCT
1975	200	08SEP	15OCT	18NOV
1976	75	25SEP	09OCT	10OCT
1977	75	07SEP	19OCT	26OCT
1978	50	01SEP	15SEP	19OCT
1979	400	09SEP	23OCT	01NOV
1980	500	18SEP	20OCT	18NOV
1981	750	08SEP	25SEP	12OCT
1982	775	07SEP	26SEP	14OCT
1983	775	07SEP	26SEP	14OCT
1984	1,200	07SEP	26SEP	14OCT
1985	100	19OCT	29OCT	18NOV
1986	457	19SEP	-	-
1987	500	18SEP	01NOV	18NOV

Year	Escapement	Start	Peak	End
1968	-	-	-	-
1969	-	-	-	-
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-

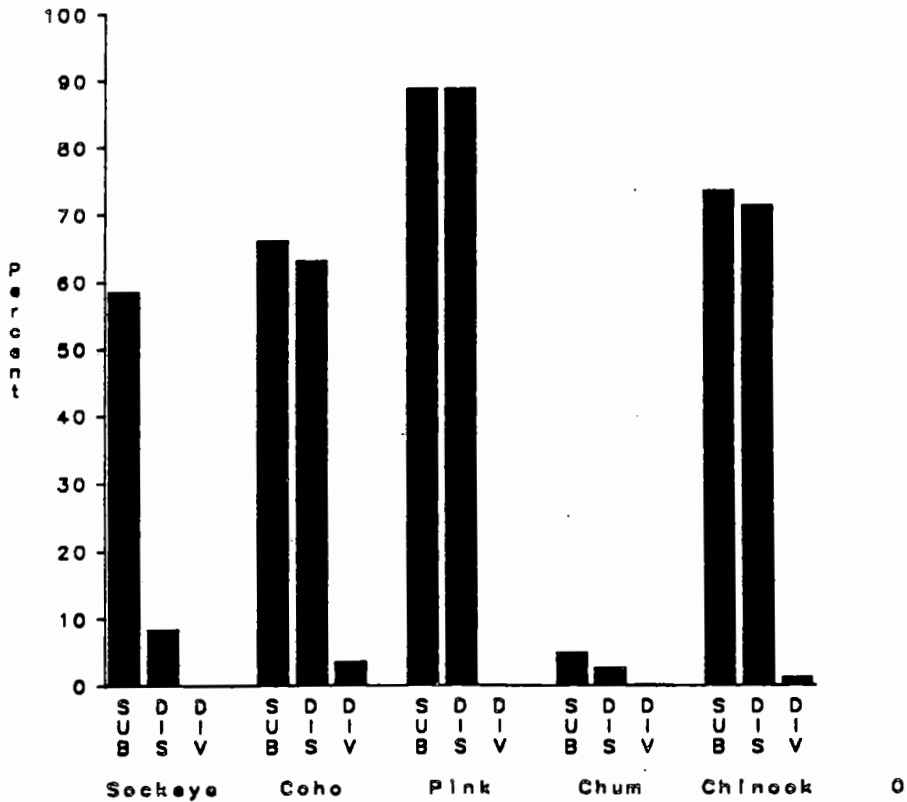
EXAMPLE RIVER (93-1000)

10-yr Mean Escapement
(1978-1987)



EXAMPLE RIVER : Escapement (1978-1987)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



3.0 STREAM SUMMARY

This section of the catalogue contains Stream Information Summaries and Escapement Profiles arranged in ascending order of watershed code. An index of watershed codes and stream names is found in Section 1.0.

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEEMA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93 L/13
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5730.60716
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLWS NORTHWEST INTO LEFT BANK OF ZYMOETZ R.		

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
NO INFORMATION AVAILABLE	

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

SUSPECTED CO, ST, DV, PRESENT. RAB BIOPHYSICAL DATA AVAILABLE. (REF. 4D-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	BERMYN BOONSTRA	Date:	1990/03/27
Last updated by:	GINA TINGSTAD	Date:	1991/02/22

A. DESCRIPTION

Stream Name: COAL CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2200	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93 L/NW
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5802.60730
		Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows SOUTH INTO RIGHT BANK OF ZYMOETZ R.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	2.0			(REF. 4D-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	PRESENT THROUGHOUT TO LAKE. (REF. 4D-22)
CT CUTTHROAT TROUT	PRESENT THROUGHOUT AND INTO LOUISE LAKE. (REF. 4D-22, REF. 4D-92)
DV DOLLY VARDEN	PRESENT THROUGHOUT AND INTO LOUISE LAKE. (REF. 4D-22, REF. 4D-92)
RB RAINBOW TROUT	PRESENT THROUGHOUT AND INTO LOUISE LAKE. (REF. 4D-22, REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

SUSPECT ST ALSO PRESENT. (REF. 4D-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERNYM BOONSTRA	Date: 1990/03/27
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: SANDSTONE CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2300	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93 L/NW B.C.G.S. (1:20k) Map: U.T.M. Mouth: 9.5828.60732 Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' ' Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
Location: FLOWS SOUTH INTO RIGHT BANK OF ZYMOETZ R., DOWNSTREAM OF MCDONELL L.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CT CUTTHROAT TROUT	PRESENT IN SANDSTONE LAKE. (REF. 4D-92)
DV DOLLY VARDEN	PRESENT THROUGHOUT. (REF. 4D-22, REF. 4D-92)
RB RAINBOW TROUT	PRESENT IN SANDSTONE LAKE. (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/03/27
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK Local Name: Watershed Code: 44-2400	D.F.O. Division: NORTH COAST District: 8 PRINCE RUPERT Subdistrict: 40 SMITHERS Statistical Subarea: - M.O.E. Region: 6 SKEENA Management Unit: 9
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Tributaries	Code	Topographic (1:50k) Map: 93 L/13 B.C.G.S. (1:20k) Map: U.T.M. Mouth: 9.5840.60714 Lat./Long. Mouth: DG. ' ' ' ' ' ' DG. ' ' ' ' ' ' Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
		Location: FLOWS NORTH INTO LEFT BANK OF ZYMOETZ R., DOWNSTREAM OF SERB C.

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
NO INFORMATION AVAILABLE	

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

CO, ST, DV SUSPECTED PRESENT IN LOWER PORTION. RAB BIOPHYSICAL DATA AVAILABLE. (REF. 40-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	BERMYN BOONSTRA	Date:	1990/03/27
Last updated by:	GINA TINGSTAD	Date:	1991/02/22

A. DESCRIPTION

Stream Name: SERB CREEK	O.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2500	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/NW
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5875.60718
		Lat./Long. Mouth: DG. ' ' DG. ' ' ' ' ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NORTH INTO LEFT BANK OF ZYMOETZ R., DOWNSTREAM OF MCDONELL LAKE.		

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
DV DOLLY VARDEN	PRESENT THROUGHOUT. (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

CO, ST, RB, CT, MW, ALSO SUSPECTED PRESENT. RAB BIOPHYSICAL DATA AVAILABLE. (REF. 40-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	BERMYN BOONSTRA	Date:	1990/04/18
Checked by:	T. PENDRAY	Date:	1990/04/18
Last updated by:	GINA TINGSTAD	Date:	1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2520	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/13
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5890.60707
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NW INTO MCDONNELL LAKE		

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	OBSERVED SPAWNING AT 0.4 KM (REF. 4B-150)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE HARCO	Date:	1987/04/03
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2540	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/13
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5910.60717
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SE INTO N SHORE OF McDONNELL LAKE FROM SMALL LAKE		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: FED BY SMALL LAKE (REF. 6M-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	OBSERVED SPAWNING AT 0.2 KM (REF. 4B-150)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/03
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: PASSBY CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2600	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/13
UNNAMED CREEK	010	B.C.G.S. (1:20k) Map: 9.5955.60725
		U.T.M. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Lat./Long. Mouth: Ref. No.:
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows S INTO ZYMOETZ R., W OF SMITHERS.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
C CASCADE	2.0	3.5		(REF. 4B-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: FED BY TRIBUTARY LAKES (REF. 6N-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 5.0 KM (REF. 4B-102)
ST STEELHEAD	IN "HANKIN LAKE C" (REF. 4B-103)
CT CUTTHROAT TROUT	IN "HANKIN LAKE C" (REF. 4B-22)
DV DOLLY YARDEN	OBSERVED AT 2.5 KM AND IN TRIBUTARIES (REF. 4B-22)
RB RAINBOW TROUT	OBSERVED AT 5.0 KM (REF. 4B-102)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
AJ AUGMENTATION	ST STEELHEAD	0.0	FRY RELEASES: 5000 IN 1981, 42000 IN 1983, 34560 IN 1985. (REF. 4B-102)	1981/1985

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/03
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GIHA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name: HANKIN LAKE CREEK, WILLOW CREEK	District: 8 PRINCE RUPERT
Watershed Code: 44-2600-010	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/13
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5961.60730
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SE INTO PASSBY C., FROM HANKIN LAKE, W OF SMITHERS.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	6.0	8.0	CO COHO SALMON ST STEELHEAD	IMPASSABLE TO ALL SPECIES (REF. 48-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: FED BY HANKIN LAKE. LAKE SURVEY DATA AVAILABLE. (REF. 48-92)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	0 - 8.0 KM (TO FALLS) (REF. 48-22)
ST STEELHEAD	OBSERVED SPAWNING AT 3.0 KM (REF. 48-103)
CT CUTTHROAT TROUT	IN SMALL LAKE AT 3.2 KM (WILLOW LAKE) (REF. 48-22)
DV DOLLY VARDEN	IN SMALL LAKE AT 3.2 KM (WILLOW LAKE) (REF. 48-22)
RB RAINBOW TROUT	IN HANKIN LAKE (REF. 48-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/03
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/22

A. DESCRIPTION

Stream Name: SILVERM CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 44-2700	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.D.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6015.60702
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SW INTO DENNIS LAKE FROM MOUNT EVELYN		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
C CASCADE		5.0	CO COHO SALMON	(REF. 48-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: LAKE FED. LAKE SURVEY DATA FOR SILVERM LAKE AVAILABLE (REF. 48-92)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	OBSERVED SPAWNING AT 2.0 KM (REF. 48-149)
CO COHO SALMON	0 - 5.0 KM (REF. 48-22)
ST STEELHEAD	PRESENT, PROBABLY TO 5 KM. (REF. 48-102)
DV DOLLY VARDEN	THROUGHOUT (REF. 48-22, REF. 48-92, REF. 48-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
AU AUGMENTATION	ST STEELHEAD	0.0	FRY RELEASES: 5000 IN 1981, 6000 IN 1983, 4500 IN 1985. (REF. 4B-102)	1981/1985

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/03
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: BULKLEY RIVER	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46	Subdistrict: 4C HAZELTON
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93M/4 B.C.G.S. (1:20k) Map: U.T.M. Mouth: 9.5845.61230 Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0" Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
STATION CREEK	0100	Location: FLOWS NW INTO SKEENA R. AT HAZELTON, CASSTAR DIST.
TWO MILE CREEK	0200	
SUSKWA RIVER	0700	
MUDFLAT CREEK	0800	
PORPHYRY CREEK	1100	
LUND CREEK	1200	
SHARPE CREEK	1300	
BOULDER CREEK	1400	
CORYA CREEK	1800	
CAUSQUA CREEK	1900	
JOHN BROWN CREEK	2000	
GRAMOPHONE CREEK	2100	
TROUT CREEK	2300	
TOBOGGAN CREEK	2400	
REISETER CREEK	2800	
DRIFTWOOD CREEK	3300	
CANYON CREEK	3400	
KATHLYN CREEK	3500	
TELKWA RIVER	3800	
HELPS CREEK	4100	
UNNAMED CREEK	4300	
UNNAMED CREEK	4400	
THOMPSON CREEK	4700	
VALLEE CREEK	4800	
EMERSON CREEK	5200	
STOCK CREEK	5300	
MORICE RIVER	5500	
BUCK CREEK	5600	
BARREN CREEK	6010	
MCQUARRIE CREEK	6100	
BYMAN CREEK	6200	
RICHFIELD CREEK	6400	
CESFORD CREEK	6500	
WATSON CREEK	6600	
UNNAMED CREEK	6610	
CROW CREEK	6700	
MAXAM CREEK	6800	

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS	8.0			ON UPPER BULKLEY R. ABOVE WATSON CK. (JUST BELOW FORESTDALE). PASSABLE FOR CH AT HIGH WATER ONLY. COHD NOT FOUND ABOVE IN RECENT YEARS (IE. SINCE 1970'S). (REF. 4A-159, REF. 4C-140)

C. FLOW

Flow Control: W.S.C. Station No. 1: 08EE022	Water Survey of Canada (WSC) Flow Gauge: Y No. 2: 08EE026	No. 3: 08EE027	No. 4: 08EE004
Comments: ADDITIONAL WSC GAUGING STATIONS: 08EE002, 08EE005, 08EE001, 08EE007, 08EE025, 08EE003. (REF. 6N-28)			
FLOW DATA AVAILABLE. (REF. 4C-26)			
LAKE FED. LAKE SURVEY DATA FOR BULKLEY LAKE AVAILABLE; ALSO AVAILABLE FOR TRIBUTARY LAKES. (REF. 4C-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	TO MORICE LAKE SYSTEM. IN UPPER BULKLEY - HISTORICALLY TO BULKLEY AND MAXAM LAKES. NOT OBSERVED ABOVE BULKLEY FALLS SINCE 1970'S. (REF. 4C-7, REF. 4C-92, REF. 4D-140)
CO COHO SALMON	THROUGHOUT ACCESSIBLE TRIBUTARIES - ESPECIALLY MORICE SYSTEM. IN UPPER BULKLEY - HISTORICALLY TO BULKLEY AND MAXAM LAKES. NOT OBSERVED ABOVE BULKLEY FALLS SINCE 1970'S. (REF. 4A-159, REF. 4C-7, REF. 4C-103)
PK PINK SALMON	TO MORICE RIVER SYSTEM. (REF. 4C-7, REF. 4C-103, REF. 4C-140)
CH CHINOOK SALMON	TO MORICE LAKE SYSTEM. IN UPPER BULKLEY - TO BULKLEY AND MAXAM LAKES. (REF. 4C-7, REF. 4C-140)
ST STEELHEAD	THROUGHOUT ACCESSIBLE TRIBUTARIES. IN UPPER BULKLEY - PROBABLY PRESENT TO ABOVE BULKLEY FALLS. OBSERVED SPawning IN MCQUARRIE C. (REF. 4C-7, REF. 4C-102)
BB BURBOT	PRESENT IN LAKES AND ADJACENT TRIBUTARIES. (REF. 4C-92)
CT CUTTHROAT TROUT	THROUGHOUT, IN TRIBUTARIES AND LAKES. (REF. 4C-22, REF. 4C-92, REF. 4C-103)
DV DOLLY VARDEN	THROUGHOUT, IN TRIBUTARIES AND LAKES. (REF. 4C-22, REF. 4C-92)
LT LAKE TROUT	PRESENT IN LAKES AND ADJACENT TRIBUTARIES. (REF. 4C-92)
LW LAKE WHITEFISH	PRESENT IN LAKES. (REF. 4C-92)
MW ROCKY MTH WHITEFISH	IN TRIBUTARIES AND LAKES. (REF. 4C-22, REF. 4C-92)
RB RAINBOW TROUT	THROUGHOUT, IN TRIBUTARIES AND LAKES. (REF. 4C-22, REF. 4C-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
SK SOCKEYE SALMON	5	1980 - 1989	28A-18	25	4C-158	300	4C-158
CO COHO SALMON	191	1980 - 1989	28A-18	1500	28A-18	12500	4C-158
PK PINK SALMON	16375	1981 - 1989	28A-18	45000	28A-18	3500	4C-158
PK PINK SALMON	7250	1980 - 1989	28A-18	11500	28A-18		
CH CHINOOK SALMON	400	1980 - 1989	28A-18	1000	28A-18	2500	4C-158
ST STEELHEAD	2431	1963 - 1984	4C-102	11388	4C-102		

Comments: THE ABOVE ESCAPEMENT FIGURES REFLECT ESCAPMENTS TO THE BULKLEY RIVER IN DFO SUBDISTRICT #40. PK ESCAPEMENT NUMBERS ARE FOR THE LOWER RIVER (46-0000-000-000-000-991). SK, CO, AND CH ESCAPEMENT NUMBERS ARE FOR THE UPPER RIVER (46-0000-000-000-000-992). (REF. 28A-18)

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SK SOCKEYE SALMON	Migration Spawning Incubation Rearing								X X X	X X			
CO COHO SALMON	Migration Spawning Incubation Rearing								X X X X	X X	X X	X X	X X
PK PINK SALMON	Migration Spawning Incubation Rearing								X X X X	X X			
CH CHINOOK SALMON	Migration Spawning Incubation Rearing							X	X X X	X X			
ST STEELHEAD	Migration Spawning Incubation Rearing						X X	X X	X	X X	X X	X	

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
CF COUNTING FENCE	CH CHINOOK SALMON CO COHO SALMON		ON UPPER BULKLEY R. AT HOUSTON JUST DOWNSTREAM FROM BUCK CK. BUILT BY S.E.P., OPERATED BY P.I.P. TEMPORARY FENCE OPERATED IN 1987-88. (REF. 4C-140)	1989/
FS FISH SAMPLING	CO COHO SALMON		SEVERAL SITES ON UPPER BULKLEY R. MONITORED ANNUALLY FOR JUVENILE CO DENSITIES. (REF. 4D-163)	1987/
MR MARK RECOVERY	ST STEELHEAD	0.0	(REF. 4C-29)	1982/
FW FISHWAY	AF ALL SPECIES	0.0	AT MORICETOWN FALLS. (REF. 4C-8, REF. 4C-52)	1951/1951
AU AUGMENTATION	ST STEELHEAD	0.0	AT TROUT CREEK CONFLUENCE - FRY RELEASES: 17000 IN 1985, 6000 IN 1986. (REF. 4C-102)	1985/1986
OR BARRIER REMOVAL	AF ALL SPECIES	0.0	HAGWILGET CANYON (REF. 4C-52)	1959/1959
MR MARK RECOVERY	ST STEELHEAD	0.0	RADIO TELEMETRY. (REF. 4C-44)	1978/1979

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DATA ON CH FISHERY AVAILABLE. (REF. 4C-7)
DETAILED FISH POPULATION, TIMING AND HABITAT UTILIZATION WITH REFERENCE TO THE KEMANO II DEVELOPMENT AVAILABLE. (REF. 4C-66)
HABITAT DESCRIPTION AND ST POPULATION DATA AVAILABLE. (REF. 4C-26)
HEAVY SPORT AND INDIAN FOOD FISHERY. UPPER BULKLEY FREQUENTLY CHANGES COURSE FOR VARIOUS REASONS. VERY HEAVY BEAVER ACTIVITY. BANK EROSION BETWEEN BULKLEY FALLS AND HOUSTON. (REF. 4C-100)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS CONTINUED

IMPACTS ASSESSMENT OF PULPHILL OPERATIONS AT HOUSTON, B.C. AVAILABLE. (REF. 4C-83)
IMPACTS ASSESSMENT OF TRANSMISSION LINE DEVELOPMENT AVAILABLE. (REF. 4C-47)
PK SPAWNING OCCURS THROUGHOUT LENGTH OF RIVER, WHEREVER RIFFLES ARE PRESENT. (REF. 4C-140)
RESOURCE ASSESSMENT DATA FOR TELKWA COAL PROJECT AVAILABLE. (REF. 4C-114)
ST AND CH POPULATION DATA DERIVED FROM BOAT SHOCKING PROGRAM AVAILABLE. (REF. 4C-38)
ST BROODSTOCK FACILITY AT OUTLET OF SEYMOUR LAKE OPERATED BY B.C. FISH & WILDLIFE BRANCH. (REF. 4C-121)
ST FRY DENSITY DATA AVAILABLE. (REF. 4C-35)
ST POPULATION DATA AVAILABLE. A MAJOR ACID SPILL OCCURRED AT EQUITY SILVER MINES, IN THE HEADMETERS OF BUCK C., IN NOVEMBER 1981 (108 METRIC TONS OF SULPHURIC ACID). THIS WAS CONSIDERED A MAJOR EVENT IN A CONTINUING PROBLEM OF ACID MINE DRAINAGE. (REF. 4C-29)
ST POPULATION DATA VAILABLE. (REF. 4C-2)
JUVENILE CO PRESENCE AND DENSITY INFORMATION AVAILABLE FOR UPPER BULKLEY R. ABOVE HOUSTON. (REF. 4D-163)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/03
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: KATHY PONTUS	Date: 1991/06/03
Last checked by: T PENDRAY	Date: 1991/04/23

ESCAPEMENT : BULKLEY RIVER

WATERSHED-CODE : 46-0000-000-000-000-991

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	750	0	1500	0	600	UNK
1954	750	1500	750	0	500	UNK
1955	75	3000	3000	0	100	UNK
1956	N/O	3500	750	0	0	UNK
1957	N/O	1500	400	0	0	UNK
1958	0	3500	400	0	0	UNK
1959	N/O	UNK	400	0	N/O	UNK
1960	0	3500	400	0	0	UNK
1961	0	1500	400	0	0	UNK
1962	0	N/O	N/O	0	0	UNK
1963	0	5000	30000	0	0	UNK
1964	0	2000	2000	0	0	UNK
1965	0	700	500	0	300	UNK
1966	0	2000	1000	0	400	UNK
1967	0	1200	200	0	500	UNK
1968	0	2000	350	0	400	UNK
1969	0	1500	500	0	50	UNK
1970	0	1600	3500	0	100	UNK
1971	0	300	400	0	100	UNK
1972	0	0	1500	0	70	UNK
1973	0	1000	500	0	75	UNK
1974	0	N/O	200	0	N/O	UNK
1975	N/O	0	0	0	34	UNK
1976	0	0	200	0	0	UNK
1977	0	0	2000	0	350	UNK
1978	0	N/O	300	0	500	UNK
1979	UNK	UNK	UNK	UNK	UNK	UNK
1980	UNK	UNK	UNK	UNK	UNK	UNK
1981	UNK	UNK	UNK	UNK	UNK	UNK
1982	UNK	UNK	UNK	0	UNK	UNK
1983	0	N/O	500	0	N/O	UNK
1984	0	N/O	UNK	0	N/O	UNK
1985	0	0	3500	0	0	UNK
1986	0	UNK	3000	UNK	UNK	UNK
1987	0	0	16500	0	100	UNK
1988	0	0	11500	0	120	UNK
1989	UNK	N/O	45000	UNK	100	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

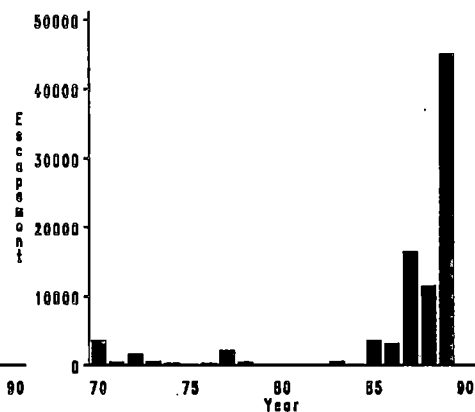
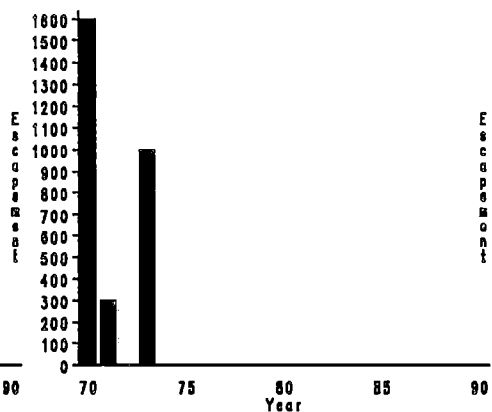
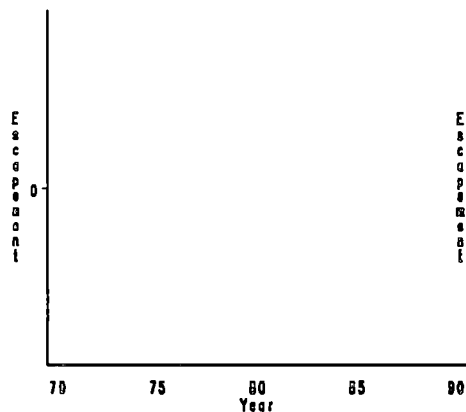
BULKLEY RIVER (46-0000-000-000-000-000-991)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

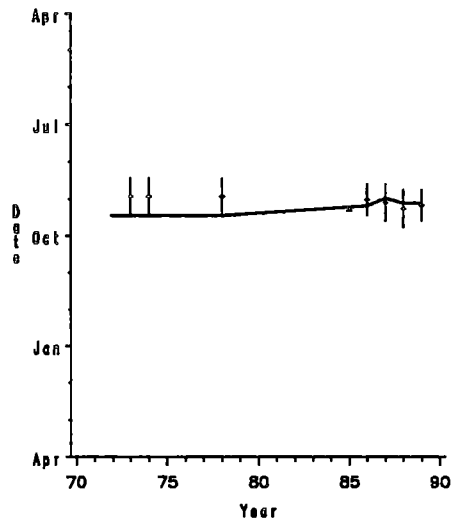
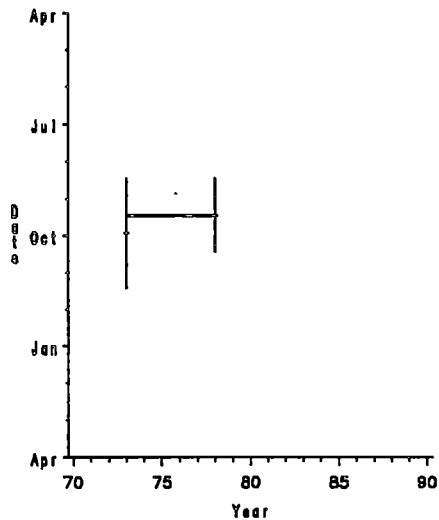
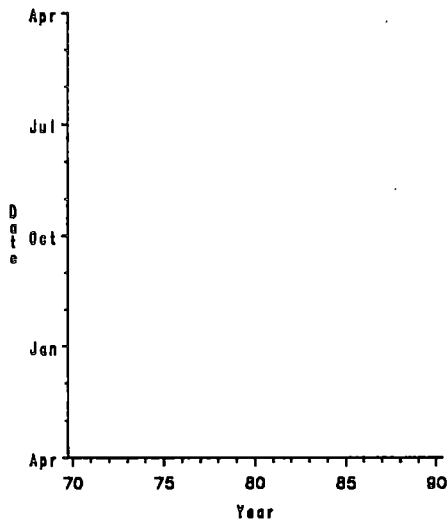
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	1,800	-	-	-
1971	300	-	-	-
1972	0	-	-	-
1973	1,000	15AUG	15SEP	15NOV
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	15AUG	15SEP	15OCT
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	3,500	-	-	-
1971	400	-	-	-
1972	1,500	15SEP	15SEP	15SEP
1973	500	15AUG	15SEP	15SEP
1974	200	15AUG	15SEP	15SEP
1975	0	-	-	-
1976	200	-	-	-
1977	2,000	-	-	-
1978	300	15AUG	15SEP	15SEP
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	500	-	-	-
1984	-	-	-	-
1985	3,500	-	-	11SEP
1986	3,000	20AUG	07SEP	15SEP
1987	10,500	20AUG	01SEP	20SEP
1988	11,500	25AUG	05SEP	25SEP
1989	45,000	25AUG	05SEP	20SEP

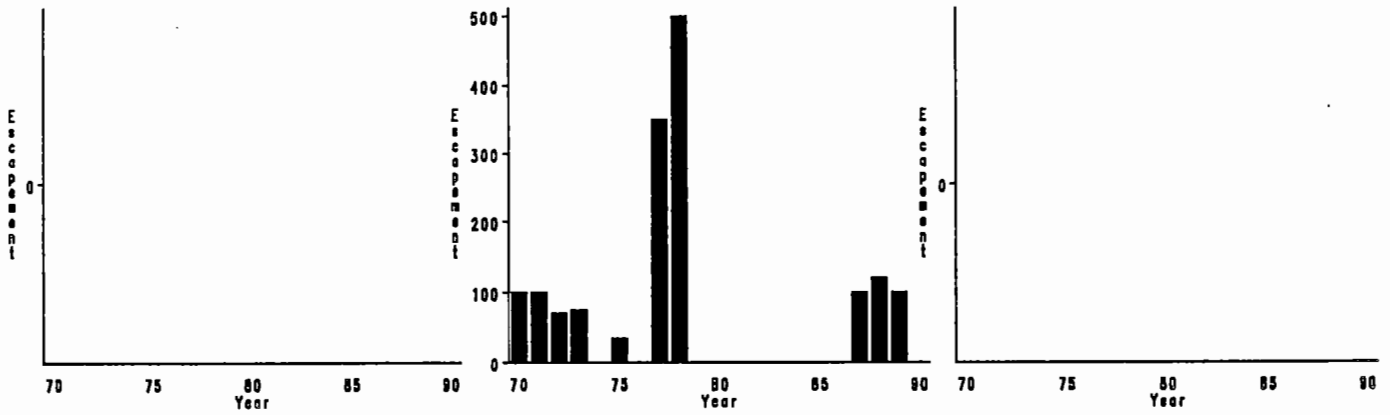
BULKLEY RIVER (46-0000-000-000-000-000-991)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

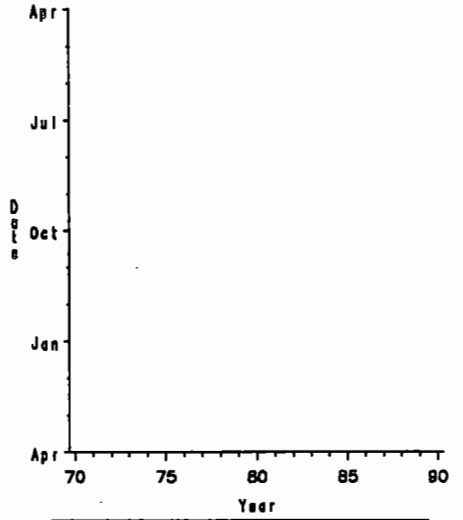
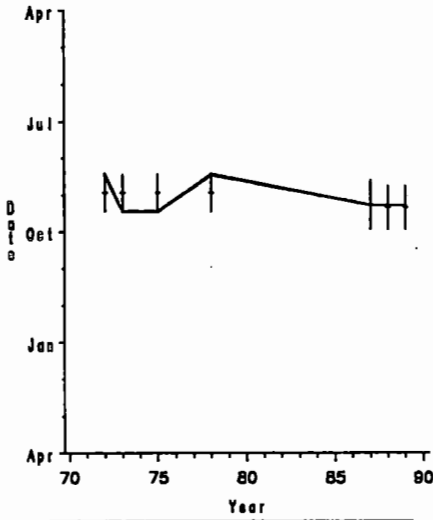
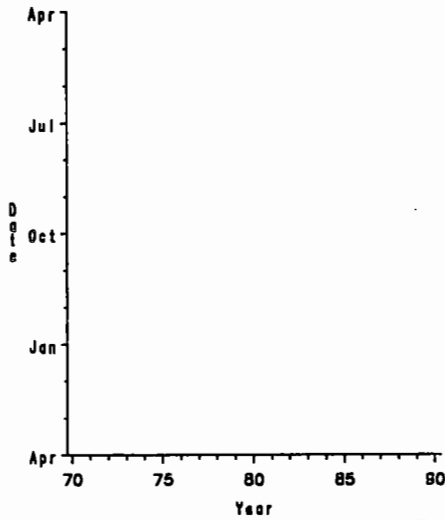
Steelhead (ST)



Chum

Chinook

Steelhead

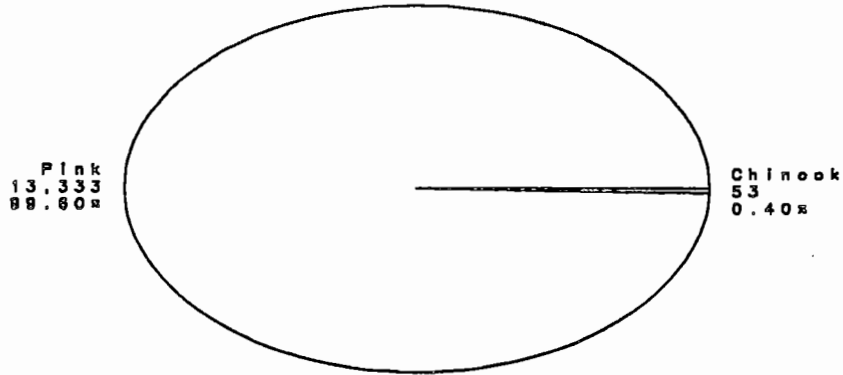


Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-

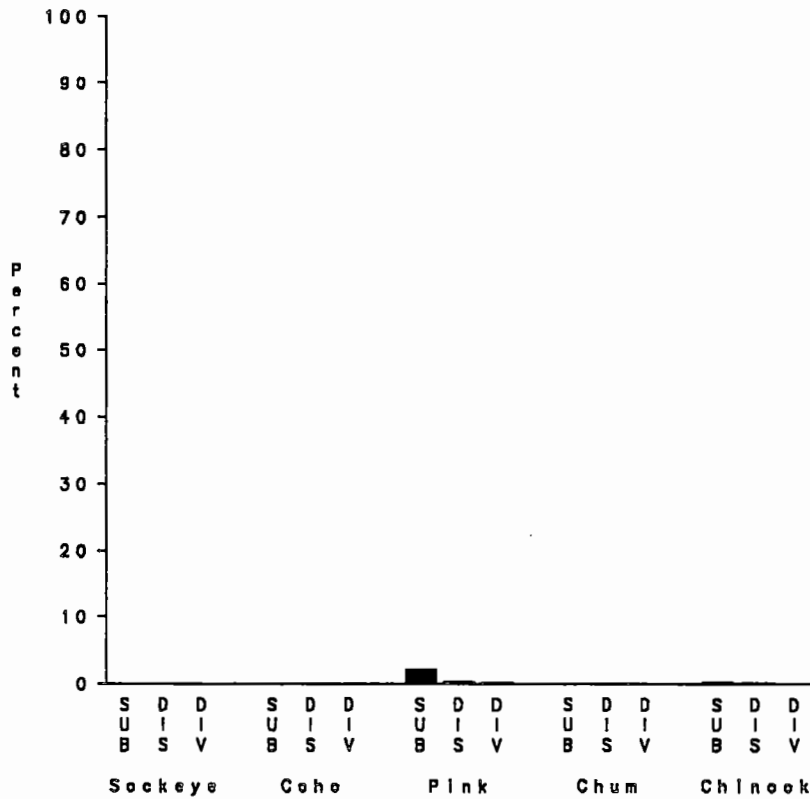
Chinook				
Year	Escapement	Start	Peak	End
1970	100	-	-	-
1971	100	-	-	-
1972	70	15AUG	15AUG	15SEP
1973	75	15AUG	15SEP	15SEP
1974	0	-	-	-
1975	34	15AUG	15SEP	15SEP
1976	0	-	-	-
1977	350	-	-	-
1978	500	15AUG	15AUG	15SEP
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	100	28AUG	10SEP	30SEP
1988	120	28AUG	10SEP	30SEP
1989	100	28AUG	10SEP	30SEP

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

BULKLEY RIVER (46-0000-000-000-000-000-991)
 10-yr Mean Escapement
 (1980-1989)



BULKLEY RIVER : Escapement (1980-1989)
 Species Escapement as a Proportion of DFO Management Units
 (ie Subdistrict, District & Division)



ESCAPEMENT : BULKLEY RIVER

WATERSHED-CODE : 46-0000-000-000-000-992

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	5000	100	0	800	UNK
1954	0	7500	0	0	1500	UNK
1955	0	5000	N/O	0	900	UNK
1956	0	7500	N/O	0	1500	UNK
1957	0	750	N/O	0	200	UNK
1958	0	1500	0	0	400	UNK
1959	N/O	3500	0	0	400	UNK
1960	200	3500	0	0	750	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	400	2500	0	0	1500	UNK
1963	600	300	0	0	2000	UNK
1964	300	200	0	0	2000	UNK
1965	100	500	0	0	800	UNK
1966	0	1000	50	0	300	UNK
1967	0	600	250	0	200	UNK
1968	0	1000	150	0	125	UNK
1969	0	1500	200	0	1200	UNK
1970	50	600	0	0	150	UNK
1971	0	600	100	0	100	UNK
1972	300	2500	450	0	55	UNK
1973	300	1000	500	0	850	UNK
1974	200	200	N/O	0	N/O	UNK
1975	64	28	N/O	0	500	UNK
1976	0	22	0	0	15	UNK
1977	200	280	0	0	250	UNK
1978	50	1200	0	0	400	UNK
1979	600	0	0	0	500	UNK
1980	0	0	0	0	500	UNK
1981	0	0	0	0	250	UNK
1982	0	UNK	0	0	100	UNK
1983	25	N/O	N/O	0	400	UNK
1984	N/O	N/O	N/O	0	200	UNK
1985	0	0	0	0	350	UNK
1986	0	UNK	UNK	UNK	450	UNK
1987	12	18	N/O	0	250	UNK
1988	UNK	10	0	0	1000	UNK
1989	9	1500	2	UNK	500	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

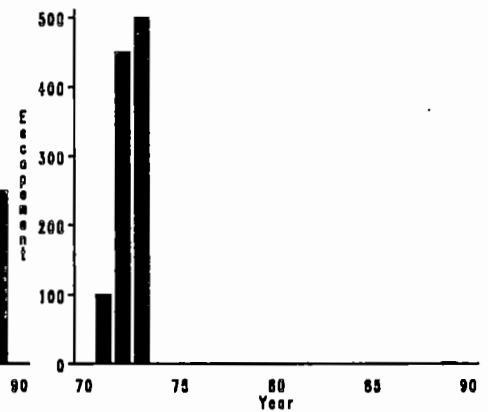
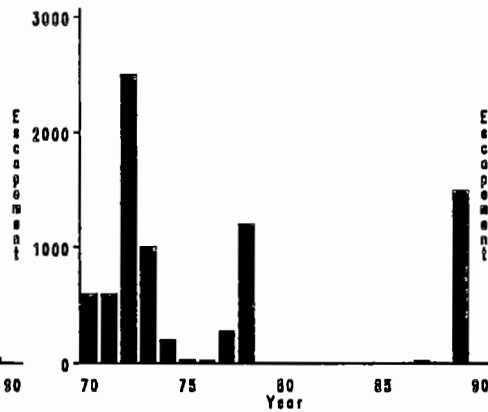
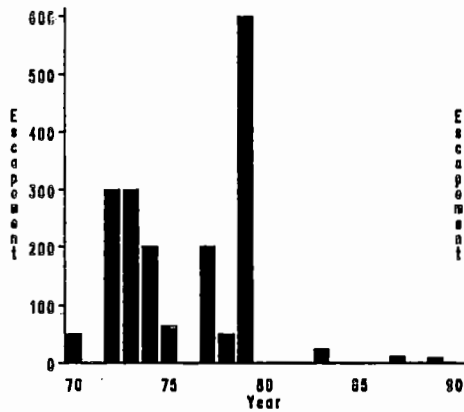
BULKLEY RIVER (46-0000-000-000-000-992)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

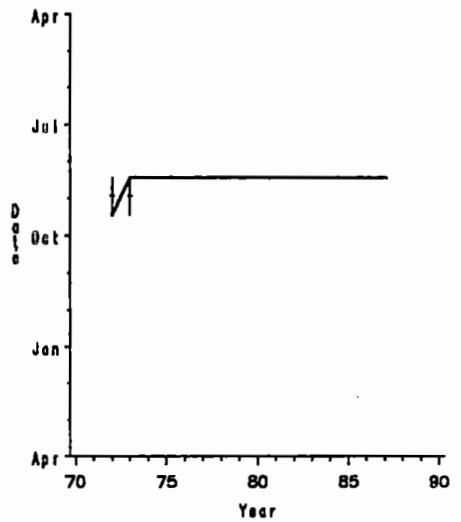
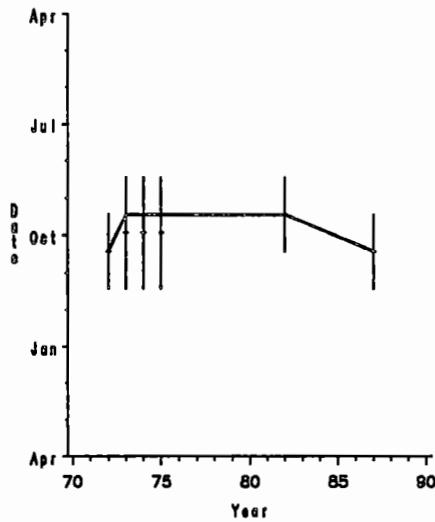
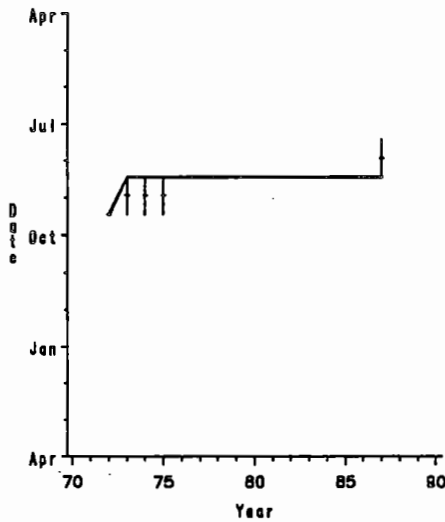
Pink (PK)



Sockeye

Coho

Pink



Sockeye

Year	Escapement	Start	Peak	End
1970	50	-	-	-
1971	0	-	-	-
1972	300	15SEP	15SEP	15SEP
1973	300	15AUG	15AUG	15SEP
1974	200	15AUG	15AUG	15SEP
1975	200	15AUG	15AUG	15SEP
1976	50	-	-	-
1977	200	-	-	-
1978	50	-	-	-
1979	600	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	25	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	12	15JUL	15AUG	15AUG
1988	-	-	-	-
1989	9	-	-	-

Coho

Year	Escapement	Start	Peak	End
1970	600	-	-	-
1971	600	-	-	-
1972	2,500	15SEP	15OCT	15NOV
1973	1,000	15AUG	15SEP	15NOV
1974	200	15AUG	15SEP	15NOV
1975	28	15AUG	15SEP	15NOV
1976	21	-	-	-
1977	280	-	-	-
1978	1,200	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	15AUG	15SEP	15OCT
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	18	15SEP	15OCT	15NOV
1988	10	-	-	-
1989	1,500	-	-	-

Pink

Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	100	-	-	-
1972	450	15AUG	15SEP	15SEP
1973	500	15AUG	15AUG	15SEP
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	15AUG	15AUG	15AUG
1988	0	-	-	-
1989	2	-	-	-

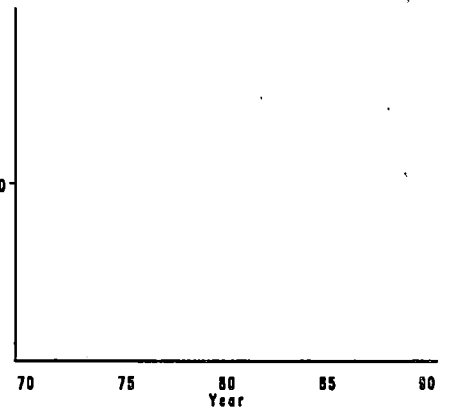
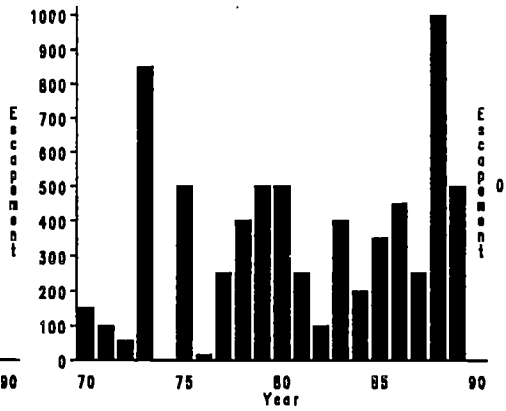
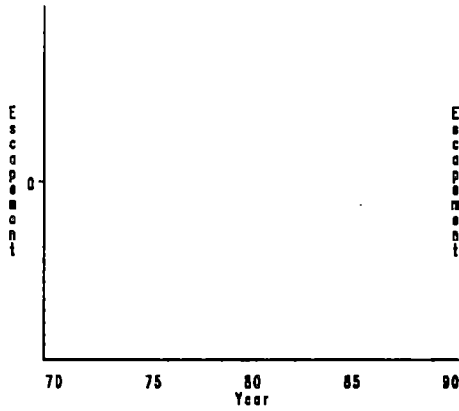
BULKLEY RIVER (46-0000-000-000-000-000-992)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

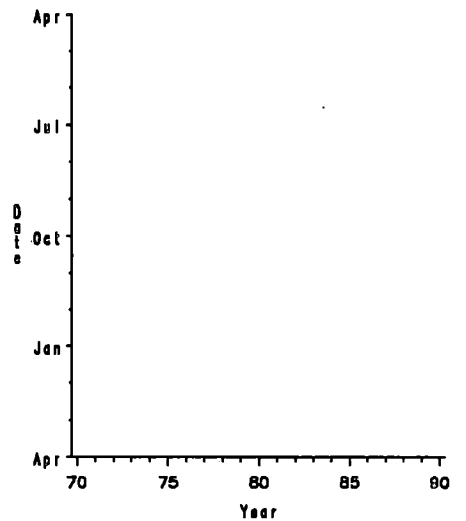
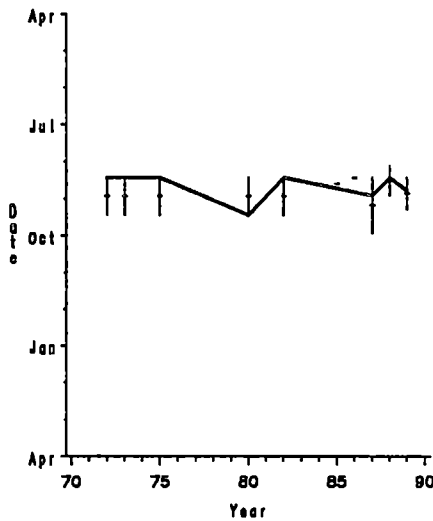
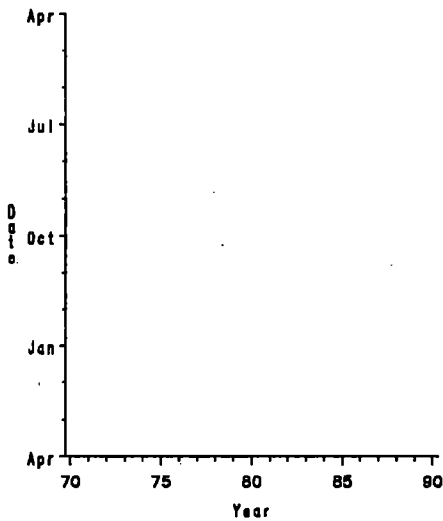
Steelhead (ST)



Chum

Chinook

Steelhead

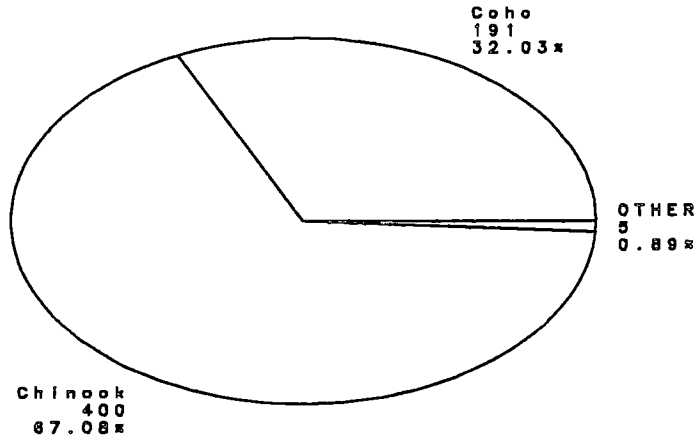


Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

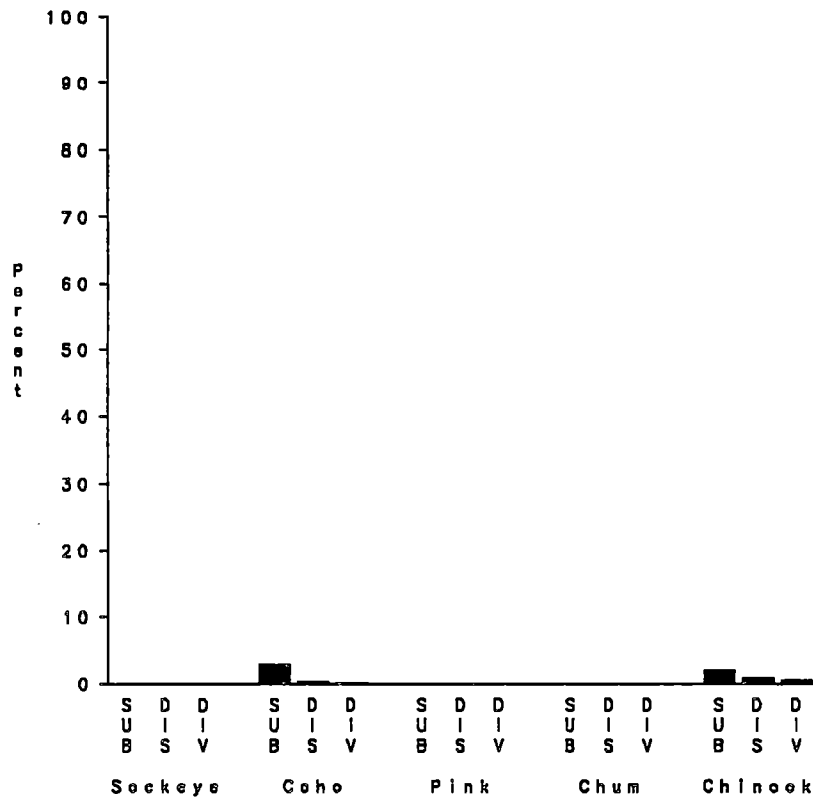
Chinook				
Year	Escapement	Start	Peak	End
1970	150	-	-	-
1971	100	-	-	-
1972	55	15AUG	15AUG	15SEP
1973	850	15AUG	15AUG	15SEP
1974	0	-	-	-
1975	500	15AUG	15AUG	15SEP
1976	15	-	-	-
1977	250	-	-	-
1978	400	-	-	-
1979	500	-	-	-
1980	500	15AUG	15SEP	15SEP
1981	250	-	-	-
1982	100	15AUG	15AUG	15SEP
1983	400	-	-	-
1984	200	-	-	-
1985	350	20AUG	-	-
1986	450	15AUG	-	-
1987	250	15AUG	30AUG	30SEP
1988	1,000	05AUG	15AUG	30AUG
1989	500	15AUG	20AUG	10SEP

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

BULKLEY RIVER (46-0000-000-000-000-992)
 10-yr Mean Escapement
 (1980-1989)



BULKLEY RIVER : Escapement (1980-1989)
 Species Escapement as a Proportion of DFO Management Units
 (ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: CAUSQUA CREEK	D.F.O. Division: NORTH COAST
Local Name: FISH CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-1900	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93M/3
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6083.60999
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS W INTO RIGHT BANK OF BULKLEY R., OPPOSITE MORICETOWN, CASSIAR DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS	30.0	3.2	AF ALL SPECIES	IMPASSABLE TO ALL SPECIES. (REF. 40-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
PK PINK SALMON	OBSERVED AT 0.2 KM (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
PK PINK SALMON		1981 - 1989		1000	28A-18	500	4D-158
Comments: PINK OBSERVED IN 1989 ONLY (1000) (REF. 28A-18)							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
MI MINING	SILVER STANDARD MINES HAS A WATER LICENCE TO WITHDRAW 900 CM PER DAY FROM THIS STREAM. (1969) (REF. 4D-100)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

THIS STREAM IS NOT A CONSISTENT PRODUCER AND ESCAPMENTS ARE DETERMINED ENTIRELY BY WATER SUPPLY. CONSTRUCTION OF FLOATATION MILL IN 1977, 5 KM FROM THE MOUTH. (REF. 4D-100)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO Date: 1987/04/07
Checked by: TOM PENDRAY Date: 1987/01/30

ESCAPEMENT : CAUSQUA CREEK

WATERSHED-CODE : 46-1900

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	0	25	0	0	UNK
1954	0	N/O	N/O	0	0	UNK
1955	0	N/O	N/O	0	0	UNK
1956	0	N/O	N/O	0	0	UNK
1957	0	0	N/O	0	0	UNK
1958	0	0	N/O	0	0	UNK
1959	0	0	N/O	0	0	UNK
1960	0	0	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	0	0	600	0	0	UNK
1963	0	0	800	0	0	UNK
1964	UNK	UNK	UNK	UNK	UNK	UNK
1965	N/O	0	0	0	0	UNK
1966	0	0	N/O	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	N/O	0	0	0	0	UNK
1969	0	0	UNK	0	0	UNK
1970	0	0	0	0	N/O	UNK
1971	N/O	0	0	0	0	UNK
1972	0	N/O	N/O	0	0	UNK
1973	0	UNK	0	0	0	UNK
1974	0	UNK	UNK	0	0	UNK
1975	0	UNK	UNK	0	0	UNK
1976	0	N/O	N/O	0	0	UNK
1977	0	N/O	N/O	0	0	UNK
1978	UNK	UNK	UNK	UNK	UNK	UNK
1979	UNK	UNK	UNK	UNK	UNK	UNK
1980	UNK	UNK	UNK	UNK	UNK	UNK
1981	UNK	UNK	UNK	UNK	UNK	UNK
1982	UNK	UNK	UNK	UNK	UNK	UNK
1983	UNK	UNK	UNK	UNK	UNK	UNK
1984	UNK	UNK	UNK	UNK	UNK	UNK
1985	UNK	UNK	UNK	UNK	UNK	UNK
1986	UNK	UNK	UNK	UNK	UNK	UNK
1987	0	UNK	0	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	1000	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: JOHN BROWN CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-2000	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93M/3
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6069.60970
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NE INTO LEFT BANK BULKLEY R., AT MORICETOWN INDIAN RESERVE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y
W.S.C. Station No. 1: 08EE006	No. 2: No. 3: No. 4:

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CH CHINOOK SALMON	OBSERVED AT 0.4 KM (REF. 4D-22)
CT CUTTHROAT TROUT	OBSERVED AT 0.4 KM (REF. 4D-22)
DV DOLLY VARDEN	OBSERVED AT 0.4 KM (REF. 4D-22)
RB RAINBOW TROUT	OBSERVED AT 0.4 KM (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: GRAMOPHONE CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-2100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6076.60934
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows WEST INTO RIGHT BANK OF BULKLEY RIVER.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
RB RAINBOW TROUT	PRESENT AT ROAD CROSSING (2 KM UPSTREAM) PROBABLY ST. (REF. 4C-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

SUSPECT CO. DV. ALSO PRESENT. RAB BIOPHYSICAL DATA AVAILABLE. (REF. 4C-22)
--

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/17
Last updated by: GINA TINGSTAD	Date: 1991/02/22
Last checked by: TOM PENDRAY	Date: 1990/12/11

A. DESCRIPTION

Stream Name: TROUT CREEK	D.F.O. Division: NORTH COAST
Local Name: SHEDDY CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-2300	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6072.60893
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows E INTO THE LEFT BANK OF THE BULKLEY R., RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS		1.6		PASSABLE DURING SOME FLOWS (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: LAKE FED. (REF. 6N-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	PRESENT AT MOUTH (REF. 4D-100, REF. 4D-156)
PK PINK SALMON	PRESENT AT THE MOUTH. (REF. 4D-100, REF. 4D-156)
ST STEELHEAD	PRESENT, FRY STOCKED ABOVE FALLS. (REF. 4D-100, REF. 4D-156)
CT CUTTHROAT TROUT	OBSERVED AT 12 KM. (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON		-				500	4D-158
PK PINK SALMON		-				1000	4D-158

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing								X X X	X X	X X	X X	
PK PINK SALMON	Migration Spawning Incubation Rearing								X X	X X			

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
CO COLONIZATION	ST STEELHEAD	0.0	FRY RELEASES: 4,000 IN 85 AND 33,168 IN 86, ABOVE FALLS. (REF. 40-102, REF. 40-156)	1985/1986

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

GOOD STEELHEAD SPORT FISHERY. SHORT ROCKY STREAM. ONLY LIGHTLY USED FOR SPAWNING. (REF. 40-100)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/22
Last checked by:	TOM PENDRAY	Date:	1990/12/11

ESCAPEMENT : TROUT CREEK

WATERSHED-CODE : 46-2300

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	60	0	0	0	UNK
1954	0	N/O	0	0	0	UNK
1955	UNK	UNK	UNK	UNK	UNK	UNK
1956	0	N/O	0	0	0	UNK
1957	0	N/O	0	0	0	UNK
1958	0	25	0	0	0	UNK
1959	0	UNK	0	0	0	UNK
1960	0	25	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	0	0	3000	0	0	UNK
1963	0	0	1500	0	0	UNK
1964	0	250	600	0	0	UNK
1965	0	300	0	0	0	UNK
1966	0	100	0	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	N/O	0	0	0	0	UNK
1969	0	150	0	0	0	UNK
1970	0	200	0	0	0	UNK
1971	0	N/O	0	0	0	UNK
1972	0	N/O	0	0	0	UNK
1973	0	UNK	0	0	0	UNK
1974	0	UNK	0	0	0	UNK
1975	UNK	0	0	0	0	UNK
1976	UNK	0	0	0	0	UNK
1977	UNK	UNK	UNK	UNK	UNK	UNK
1978	0	N/O	N/O	0	N/O	UNK
1979	UNK	UNK	0	0	0	UNK
1980	N/O	0	0	0	0	UNK
1981	UNK	0	0	0	0	UNK
1982	0	UNK	0	0	0	UNK
1983	UNK	UNK	UNK	0	0	UNK
1984	0	0	0	0	0	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	0	0	0	UNK
1987	0	UNK	0	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: TOBOGGAN CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-2400	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/14
ELLIOT CREEK	020	B.C.G.S. (1:20k) Map:
GLACIER GULCH CREEK	030	U.T.M. Mouth: 9.6079.60894
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NW INTO BULKLEY R., SE OF DOUGHTY, RGE.5. COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	GRADIENT DATA AVAILABLE. (REF. 4D-39)

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
CV CULVERT				HIGHWAY 16 CULVERT OBSTRUCTS PASSAGE AT LOW WATER (REF. 4D-100)
X LOG JAMS				MANY WINDFALLS AND SMALL LOG JAMS THROUGHOUT, PASSABLE AT NORMAL WAER LEVELS. (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: LAKE FED. LAKE SURVEY DATA FOR TOBOGGAN LAKE AVAILABLE. (REF. 4D-92)	
WATER LEVELS LOW-NORMAL (REF. 4D-100)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED SPawning TO 0.8 KM ABOVE TOBOGGAN LAKE. (REF. 4D-103, REF. 4D-129, REF. 4D-140)
PK PINK SALMON	OBSERVED SPawning TO 8.0 KM. (REF. 4D-129)
ST STEELHEAD	OBSERVED SPawning TO 1.5 KM ABOVE TOBOGGAN LAKE. (REF. 4D-102)
CT CUTTHROAT TROUT	OBSERVED IN TOBOGGAN LAKE. (REF. 4D-22, REF. 4D-92)
DV DOLLY VARDEN	THROUGHOUT (REF. 4D-22, REF. 4D-92)
KD KOKANEE	IN TOBOGGAN LAKE (REF. 4D-92)
KW ROCKY Mtn WHITEFISH	IN TOBOGGAN LAKE. (REF. 4D-22, REF. 4D-92)
RB RAINBOW TROUT	OBSERVED AT 7.5 KM (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON	1380	1980 - 1989	28A-18	4500	28A-18	2000	4D-158
PK PINK SALMON		1981 - 1989	28A-18	4000	28A-18	1000	4D-158

Comments: PINK RECORDED IN 1989 ONLY (4000) (REF. 28A-18)

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	X X
PK PINK SALMON	Migration Spawning Incubation Rearing								X X	X X	X		

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
CF COUNTING FENCE	CO COHO SALMON		"PERMANENT" FENCE INSTALLED. (REF. 4D-156)	1989/
CF COUNTING FENCE	CO COHO SALMON PK PINK SALMON ST STEELHEAD	0.0	BULKLEY VALLEY STEELHEAD SOCIETY PROJECT (S.E.P.) (REF. 4D-129)	1978/1978
MR MARK RECOVERY	ST STEELHEAD	0.0	RADIO TELEMETRY (REF. 4D-115)	1978/1979
HY HATCHERY	CO COHO SALMON ST STEELHEAD	7.0	C.E.D.P. AND PROVINCIALY FUNDED (REF. 4D-103)	1985/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED HABITAT AND FISH POPULATION DENSITY DATA AVAILABLE. (REF. 4D-39)
HEAVY SPORT FISHING PRESSURE ON CO. (REF. 4D-100)
LUSH RIPARIAN GROWTH - EXCELLENT COVER FOR FISH. (REF. 4D-100)
RESULTS OF COUNTING FENCE OPERATION AVAILABLE. (REF. 4D-129)
RESULTS OF RADIO-TELMETRY STUDIES AVAILABLE (REF. 4D-115)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	B MASON	Date:	1991/03/28
Last checked by:	TOM PENDRAY	Date:	1991/03/28

ESCAPEMENT : TOBOGGAN CREEK

WATERSHED-CODE : 46-2400

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	650	0	0	0	UNK
1954	0	600	0	0	0	UNK
1955	0	700	0	0	0	UNK
1956	0	750	0	0	0	UNK
1957	0	200	0	0	0	UNK
1958	0	400	0	0	0	UNK
1959	0	25	750	0	0	UNK
1960	0	200	0	0	0	UNK
1961	0	200	0	0	0	UNK
1962	0	1500	400	0	0	UNK
1963	0	450	1000	0	0	UNK
1964	0	250	300	0	0	UNK
1965	0	500	0	0	0	UNK
1966	0	200	0	0	0	UNK
1967	0	150	0	0	0	UNK
1968	0	200	0	0	0	UNK
1969	0	400	0	0	0	UNK
1970	0	1000	0	0	0	UNK
1971	0	1700	1000	0	0	UNK
1972	0	2000	100	0	0	UNK
1973	0	2000	1800	0	0	UNK
1974	0	500	UNK	0	0	UNK
1975	0	100	UNK	0	0	UNK
1976	0	300	0	0	0	UNK
1977	0	1010	0	0	0	UNK
1978	0	817	164	0	0	UNK
1979	0	350	N/O	0	0	UNK
1980	0	2000	N/O	0	0	UNK
1981	0	600	0	0	0	UNK
1982	0	1200	UNK	0	0	UNK
1983	0	1800	UNK	0	0	UNK
1984	0	900	0	0	0	UNK
1985	0	800	0	0	0	UNK
1986	0	1250	UNK	UNK	UNK	UNK
1987	0	300	0	0	0	UNK
1988	0	450	0	0	0	UNK
1989	UNK	4500	4000	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

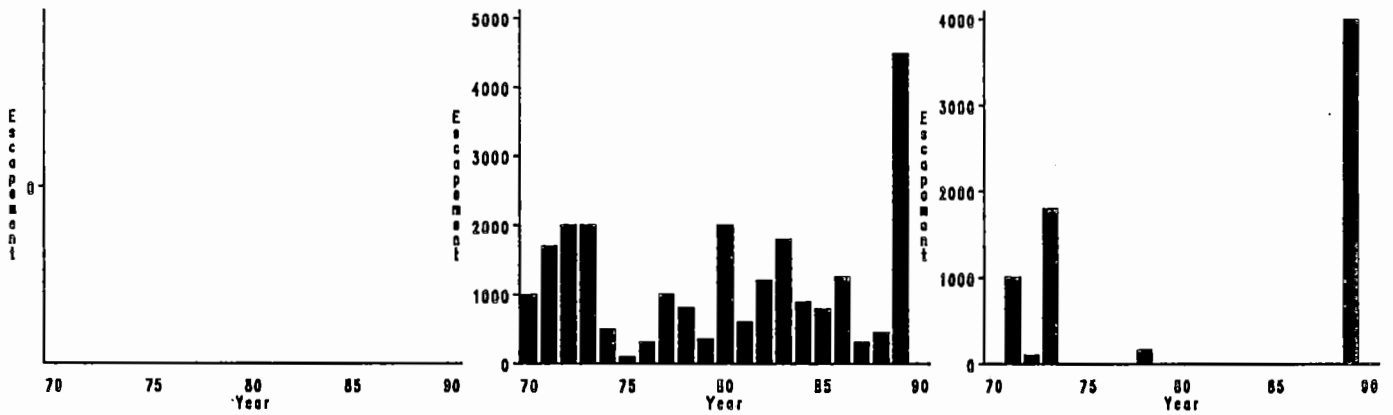
TOBOGGAN CREEK (46-2400)

Escapement & Run Timing

Socketeye (SK)

Coho (CO)

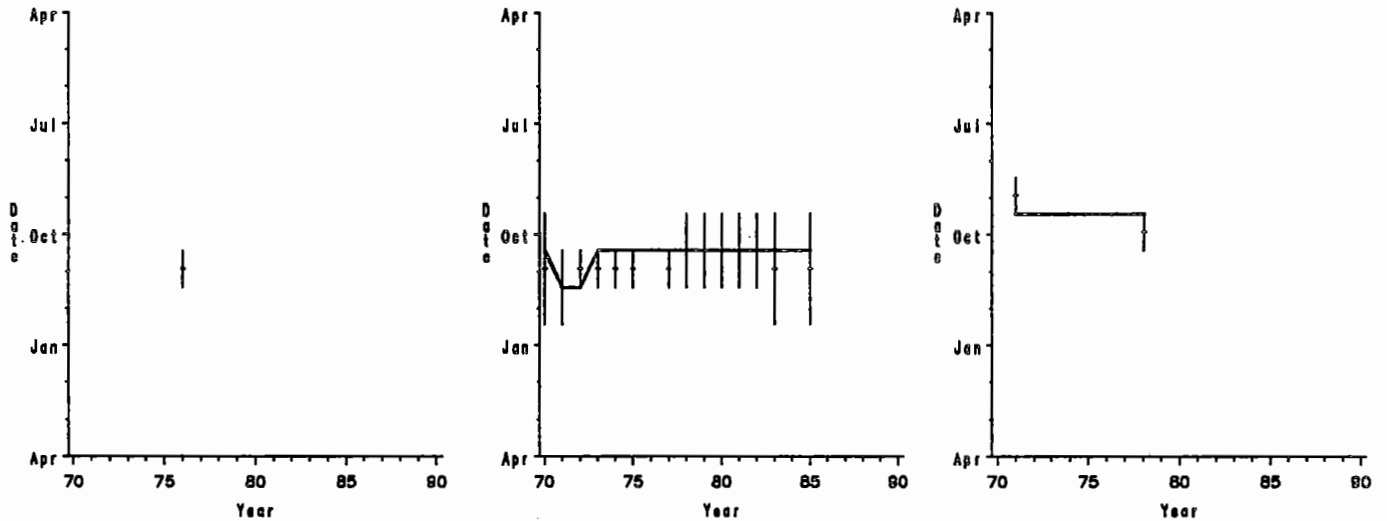
Pink (PK)



Socketeye

Coho

Pink



Socketeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	15OCT	13OCT	15NOV
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	1,000	15SEP	15OCT	15DEC
1971	1,700	15OCT	15NOV	15DEC
1972	2,000	15OCT	15NOV	15NOV
1973	2,000	15OCT	15OCT	15NOV
1974	500	15OCT	15OCT	15NOV
1975	100	15OCT	15OCT	15NOV
1976	300	-	-	-
1977	1,010	15OCT	15OCT	15NOV
1978	817	15SEP	15OCT	15NOV
1979	350	15SEP	15OCT	15NOV
1980	2,000	15SEP	15OCT	15NOV
1981	800	15SEP	15OCT	15NOV
1982	1,200	15SEP	15OCT	15NOV
1983	1,800	15SEP	15OCT	15DEC
1984	800	-	-	-
1985	800	15SEP	15OCT	15DEC
1986	1,250	-	-	-
1987	300	-	-	-
1988	450	-	-	-
1989	4,500	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	1,000	15AUG	15SEP	15SEP
1972	100	15SEP	15SEP	15SEP
1973	1,500	15SEP	15SEP	15SEP
1974	-	-	-	-
1975	-	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	104	15SEP	15SEP	15OCT
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	4,000	-	-	-

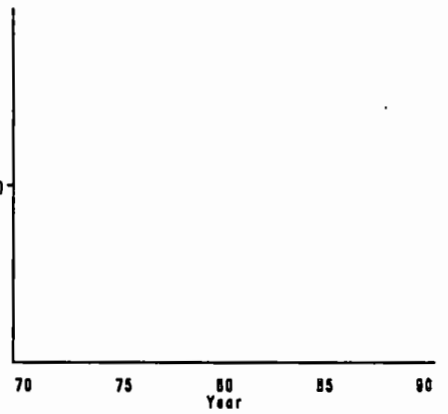
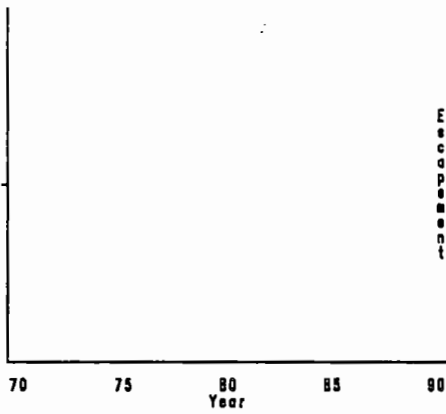
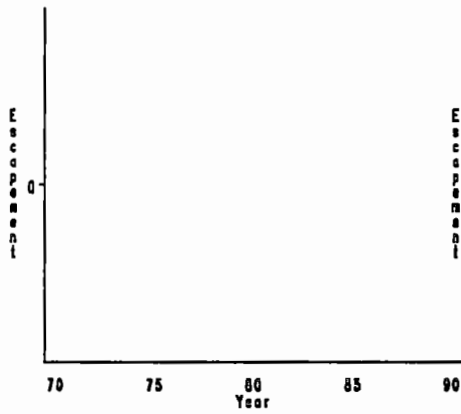
TOBOGGAN CREEK (46-2400)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

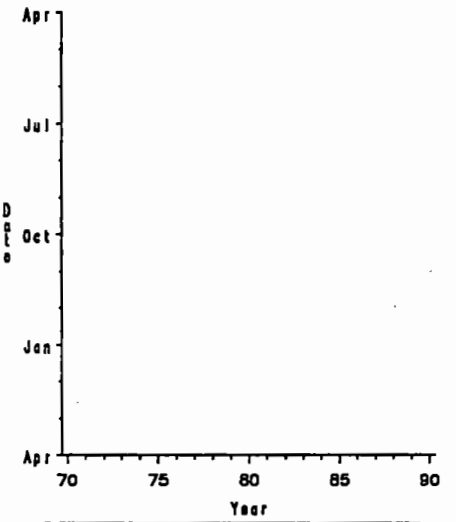
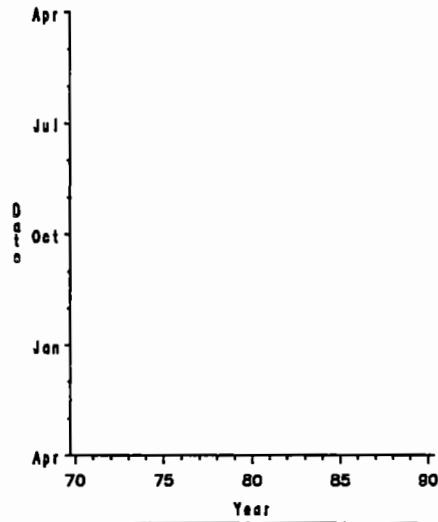
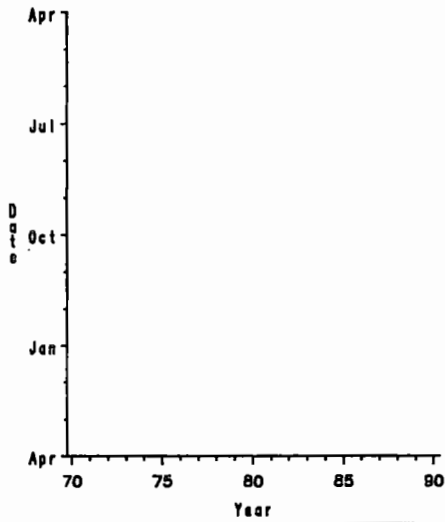
Steelhead (ST)



Chum

Chinook

Steelhead



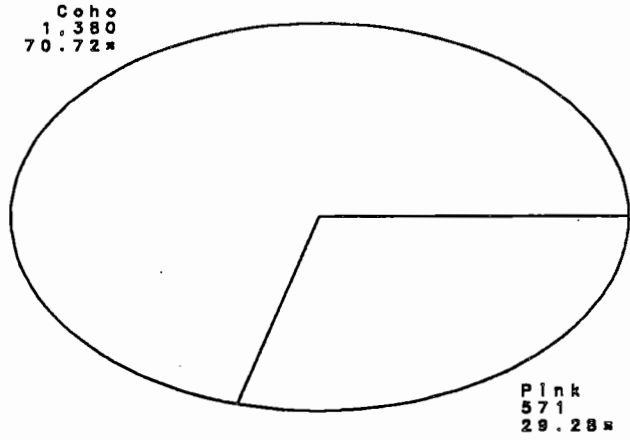
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

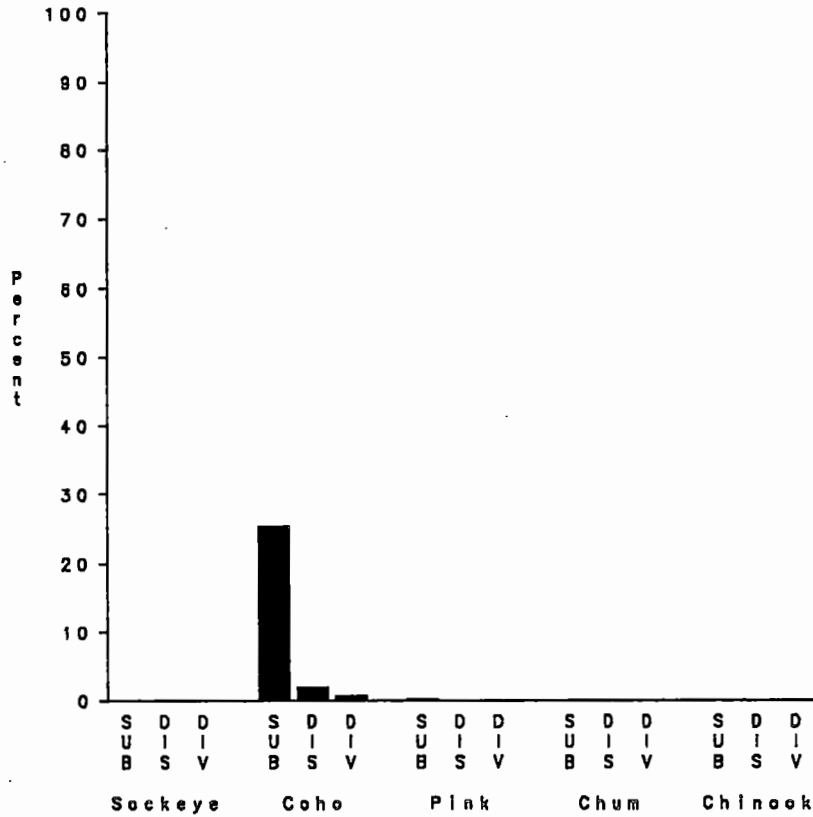
TOBOGGAN CREEK (46-2400)

10-yr Mean Escapement
(1980-1989)



TOBOGGAN CREEK : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: ELLIOT CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-2400-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6115.60835
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NE INTO LEFT BANK TOBOGGAN C., FROM MT. EVELYN.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED SPawning AT 0.2 KM (REF. 40-103, REF. 40-129)
DV DOLLY VARDEN	OBSERVED AT 1.5 KM (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/26

A. DESCRIPTION

Stream Name: GLACIER GULCH CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-2400-030	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6125.60815
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NW INTO S SHORE OF TOBOGGAN LAKE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED SPAWNING AT 2.5 KM (REF. 4D-140)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/22

A. DESCRIPTION

Stream Name: REISETER CREEK	D.F.O. Division: NORTH COAST
Local Name: TWO BRIDGE CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-2800	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6148.60863
		Lat./Long. Mouth: 0 06. 0' 0'' 0 06. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SW INTO RIGHT BANK BULKLEY R., RGE.5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
C CASCADE				STEEP ENTRANCE PREVENTS SALMON FROM ENTERING STREAM AT LOW FLOWS (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHD SALMON	JUVENILES OBSERVED AT 0.5 KM (REF. 4D-22)
RB RAINBOW TROUT	JUVENILES OBSERVED AT 0.5 KM. ALSO PRESENT IN HEADWATER LAKE. (REF. 4D-22, REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHD SALMON		1980 - 1989	28A-18	20	28A-18	500	4D-158
Comments: 20 COHD IN 1989 ONLY (REF. 28A-18)							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHD SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	X X

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

RB JUVENILES OBSERVED AT 0.5 KM ARER SUSPECTED TO BE ST. (REF. 4D-22, REF. 4D-92)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30

ESCAPEMENT : REISETER CREEK

WATERSHED-CODE : 46-2800

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	60	0	0	0	UNK
1954	0	UNK	0	0	0	UNK
1955	0	UNK	0	0	0	UNK
1956	0	25	0	0	0	UNK
1957	0	N/O	0	0	0	UNK
1958	0	25	0	0	0	UNK
1959	0	25	0	0	0	UNK
1960	0	400	0	0	0	UNK
1961	0	25	0	0	0	UNK
1962	0	400	0	0	0	UNK
1963	0	400	0	0	0	UNK
1964	0	150	0	0	0	UNK
1965	0	0	0	0	N/O	UNK
1966	0	200	0	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	UNK	0	0	0	0	UNK
1969	0	100	0	0	0	UNK
1970	0	100	0	0	0	UNK
1971	0	N/O	0	0	0	UNK
1972	0	N/O	0	0	0	UNK
1973	0	UNK	0	0	0	UNK
1974	0	N/O	0	0	0	UNK
1975	0	UNK	0	0	0	UNK
1976	0	N/O	0	0	0	UNK
1977	N/O	0	0	0	0	UNK
1978	0	N/O	0	0	0	UNK
1979	0	UNK	0	0	0	UNK
1980	0	N/O	0	0	0	UNK
1981	0	UNK	0	0	0	UNK
1982	0	N/O	0	0	N/O	UNK
1983	0	N/O	0	0	N/O	UNK
1984	0	0	0	0	0	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	0	0	0	UNK
1987	UNK	UNK	UNK	0	UNK	UNK
1988	0	0	0	0	0	UNK
1989	UNK	20	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: DRIFTWOOD CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3300	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9 6180.60782
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows W INTO RIGHT BANK BULKLEY R., N OF SMITHERS, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y
W.S.C. Station No. 1: 08EE021	No. 2: 08EE024 No. 3: No. 4:
Comments: DRY STREAMBED IN 1961, 1965. (REF. 40-100)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	JUVENILES OBSERVED AT 2.5 KM (REF. 40-22)
CH CHINOOK SALMON	OBSERVED SPAWNING AT 2.0 KM (REF. 40-102)
DV DOLLY VARDEN	OBSERVED AT 2.5 KM (REF. 40-22)
RB RAINBOW TROUT	JUVENILES OBSERVED AT 2.5 KM (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON		-				250	40-158

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	X

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

MINOR SPAWNING STREAM. BEAVER DAMS COULD CAUSE PROBLEMS. IDEAL STREAM FOR LOCAL ENHANCEMENT OF CO WITH INCUBATION BOXES. (REF. 40-100)
RB JUVENILES OBSERVED AT 2.5 KM SUSPECTED TO BE ST. (REF. 40-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/22
Last checked by:	TOM PENDRAY	Date:	1990/12/11

ESCAPEMENT : DRIFTWOOD CREEK

WATERSHED-CODE : 46-3300

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	50	0	0	0	UNK
1954	0	150	0	0	0	UNK
1955	0	200	0	0	0	UNK
1956	0	75	0	0	0	UNK
1957	0	75	0	0	0	UNK
1958	0	200	0	0	0	UNK
1959	0	75	0	0	0	UNK
1960	0	75	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	N/O	N/O	N/O	N/O	N/O	UNK
1963	0	300	0	0	0	UNK
1964	0	300	0	0	0	UNK
1965	N/O	0	0	0	N/O	UNK
1966	0	50	0	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	N/O	0	0	0	0	UNK
1969	0	100	0	0	0	UNK
1970	0	150	0	0	0	UNK
1971	0	N/O	0	0	0	UNK
1972	0	UNK	0	0	0	UNK
1973	0	N/O	0	0	0	UNK
1974	0	N/O	0	0	0	UNK
1975	0	UNK	0	0	0	UNK
1976	0	N/O	0	0	0	UNK
1977	0	N/O	0	0	0	UNK
1978	0	N/O	0	0	0	UNK
1979	N/O	N/O	0	0	0	UNK
1980	0	N/O	0	0	0	UNK
1981	UNK	UNK	0	0	0	UNK
1982	0	N/O	0	0	N/O	UNK
1983	0	N/O	0	0	N/O	UNK
1984	0	UNK	0	0	UNK	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	UNK	UNK	UNK	UNK
1987	0	UNK	0	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: CANYON CREEK	D.F.O. Division: NORTH COAST
Local Name: CARR CREEK, CASS CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-3400	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6188.60765
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NW INTO RIGHT BANK BULKLEY R., RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE014	No. 2:	No. 3:	No. 4:
Comments: STREAM DRY IN 1961 (REF. 4D-100)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CD COHO SALMON	PRESENT. JUVENILES OBSERVED AT 8.0 KM. (REF. 4D-22)
DV DOLLY VARDEN	OBSERVED AT 8.0 KM (REF. 4D-22)
RB RAINBOW TROUT	PRESENT. JUVENILES OBSERVED AT 8.0 KM. (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CD COHO SALMON		-				500	4D-158

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CD COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

HIGHER FLOWS RESPONSIBLE FOR GOOD ESCAPEMENT. SMALL LOG AND BEAVER JAMS THROUGHOUT STREAM. (REF. 4D-100)
RB JUVENILES OBSERVED AT 8.0 KM PROBABLY ST. (REF. 4D-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/22
Last checked by:	TOM PENDRAY	Date:	1990/12/11

ESCAPEMENT : CANYON CREEK

WATERSHED-CODE : 46-3400

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	60	0	0	0	UNK
1954	0	70	0	0	0	UNK
1955	0	100	0	0	0	UNK
1956	0	200	0	0	0	UNK
1957	0	N/O	0	0	0	UNK
1958	0	200	0	0	0	UNK
1959	0	75	0	0	0	UNK
1960	0	75	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	0	300	0	0	0	UNK
1963	0	300	0	0	0	UNK
1964	0	400	0	0	0	UNK
1965	0	300	0	0	0	UNK
1966	0	150	0	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	N/O	0	0	0	0	UNK
1969	0	200	0	0	0	UNK
1970	0	200	0	0	0	UNK
1971	N/O	0	0	0	0	UNK
1972	0	N/O	0	0	0	UNK
1973	0	N/O	0	0	0	UNK
1974	0	N/O	0	0	0	UNK
1975	UNK	UNK	0	0	0	UNK
1976	0	N/O	0	0	0	UNK
1977	0	N/O	0	0	0	UNK
1978	0	0	0	0	N/O	UNK
1979	N/O	N/O	0	0	0	UNK
1980	0	N/O	0	0	0	UNK
1981	0	N/O	0	0	0	UNK
1982	0	UNK	0	0	0	UNK
1983	0	N/O	0	0	0	UNK
1984	UNK	UNK	UNK	UNK	UNK	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	UNK	UNK	UNK	UNK
1987	0	UNK	0	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: KATHLYN CREEK	D.F.O. Division: NORTH COAST
Local Name: CHICKEN CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-3500	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/14
SIMPSON CREEK	020	B.C.G.S. (1:20k) Map: -
		U.T.M. Mouth: 9.6182.60734
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: - Ref. No.:
		Watershed Area: - Ref. No.:
Location: FLWS SE INTO LEFT BANK BULKLEY R., N OF SMITHERS, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
8D BEAVER DAM				EXTENSIVE BEAVER ACTIVITY (REF. 40-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE011	No. 2: 08EE010	No. 3: 08EE023	No. 4: 08EE012
Comments: LAKE FED. LAKE SURVEY DATA FOR KATHLYN LAKE AVAILABLE. (REF. 40-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED TO 0.4 KM ABOVE KATHLYN LAKE (REF. 40-92, REF. 40-140)
PK PINK SALMON	OBSERVED TO 2.0 KM (REF. 40-22, REF. 40-140)
ST STEELHEAD	OBSERVED IN KATHLYN LAKE (REF. 40-92, REF. 40-102)
CT CUTTHROAT TROUT	IN KATHLYN LAKE AND TRIBUTARIES (REF. 40-92)
NW ROCKY MTN WHITEFISH	OBSERVED IN SIMPSON C (REF. 40-22)
RB RAINBOW TROUT	OBSERVED IN SIMPSON C. (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON	50	1980 - 1989	28A-18	100	40-158	350	40-158
PK PINK SALMON	20	1981 - 1989	28A-18	100	28A-18	1000	40-158

E. ESCAPEMENT SUMMARY CONTINUED

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
Comments: ONLY 1 ODD PINK IN 1985, 100 ODD PINK IN 1989 (REF. 28A-18)							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	X
PK. PINK SALMON	Migration Spawning Incubation Rearing									X X X	X X		

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
AU AUGMENTATION	CO COHO SALMON		INCUBATION AT TOBOGGAN CREEK HATCHERY. JUVENILES RELEASED TO UNDER-UTILIZED STREAM HABITAT AND TO LAKE. (REF. 4D-156)	/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
WQ WATER QUALITY	IN RECENT YEARS INCREASED DOMESTIC WATER USE HAS RAISED THE POLLUTION LEVEL FROM SEWAGE DISPOSAL. LAKE POLLUTED FROM LAKESIDE SEPTIC (REF. 4D-100)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

SUBJECTED IN 1951 TO OIL POLLUTION FROM C.N.R. ROUNDHOUSE. VERY SMALL STREAM, BUT GOOD GRAVEL AT VARIOUS LOCATIONS AND GOOD COVER. HEAVY SPORT FISHERY AT THE MOUTH. (REF. 4D-100)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	TOM PENDRAY	Date:	1991/02/26
Last checked by:	TOM PENDRAY	Date:	1991/03/28

ESCAPEMENT : KATHLYN CREEK

WATERSHED-CODE : 46-3500

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	500	0	0	0	UNK
1954	0	600	0	0	0	UNK
1955	0	500	0	0	0	UNK
1956	0	400	0	0	0	UNK
1957	0	200	0	0	0	UNK
1958	0	400	0	0	0	UNK
1959	0	200	0	0	0	UNK
1960	0	200	0	0	0	UNK
1961	0	400	0	0	0	UNK
1962	0	400	2500	0	0	UNK
1963	0	350	1500	0	0	UNK
1964	0	200	0	0	0	UNK
1965	0	500	0	0	0	UNK
1966	0	300	0	0	0	UNK
1967	0	300	0	0	0	UNK
1968	0	300	0	0	0	UNK
1969	0	350	0	0	0	UNK
1970	0	300	0	0	0	UNK
1971	0	200	0	0	0	UNK
1972	0	N/O	0	0	0	UNK
1973	0	200	0	0	0	UNK
1974	0	150	0	0	0	UNK
1975	0	32	0	0	0	UNK
1976	0	100	N/O	0	N/O	UNK
1977	0	350	N/O	0	N/O	UNK
1978	0	350	150	0	N/O	UNK
1979	0	10	0	0	0	UNK
1980	N/O	75	N/O	0	UNK	UNK
1981	0	40	0	0	0	UNK
1982	0	24	0	0	0	UNK
1983	0	100	0	0	0	UNK
1984	0	50	0	0	0	UNK
1985	0	50	1	0	0	UNK
1986	0	50	UNK	UNK	UNK	UNK
1987	0	50	0	0	0	UNK
1988	0	10	0	0	0	UNK
1989	UNK	50	100	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

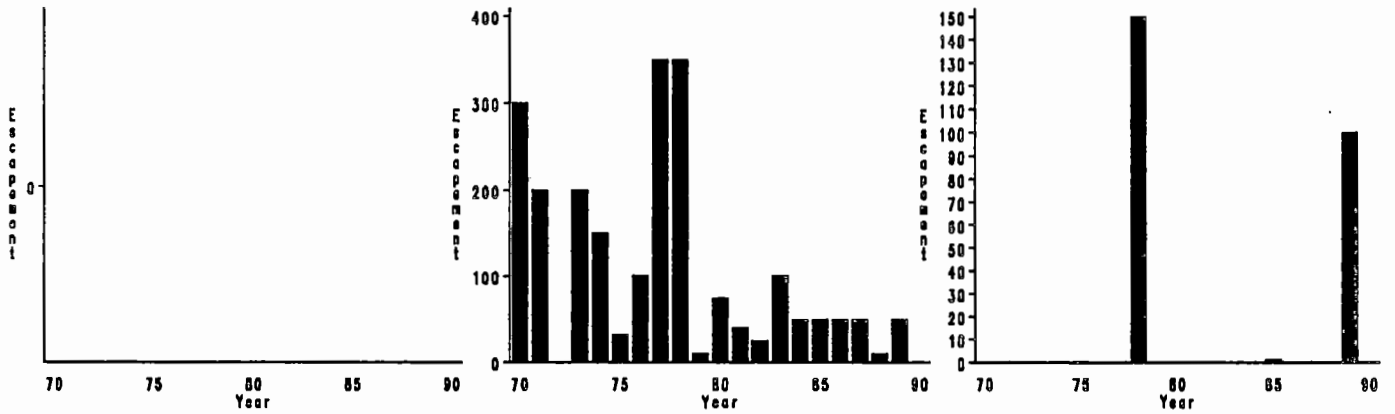
KATHLYN CREEK (46-3500)

Escapement & Run Timing

Socketeye (SK)

Coho (CO)

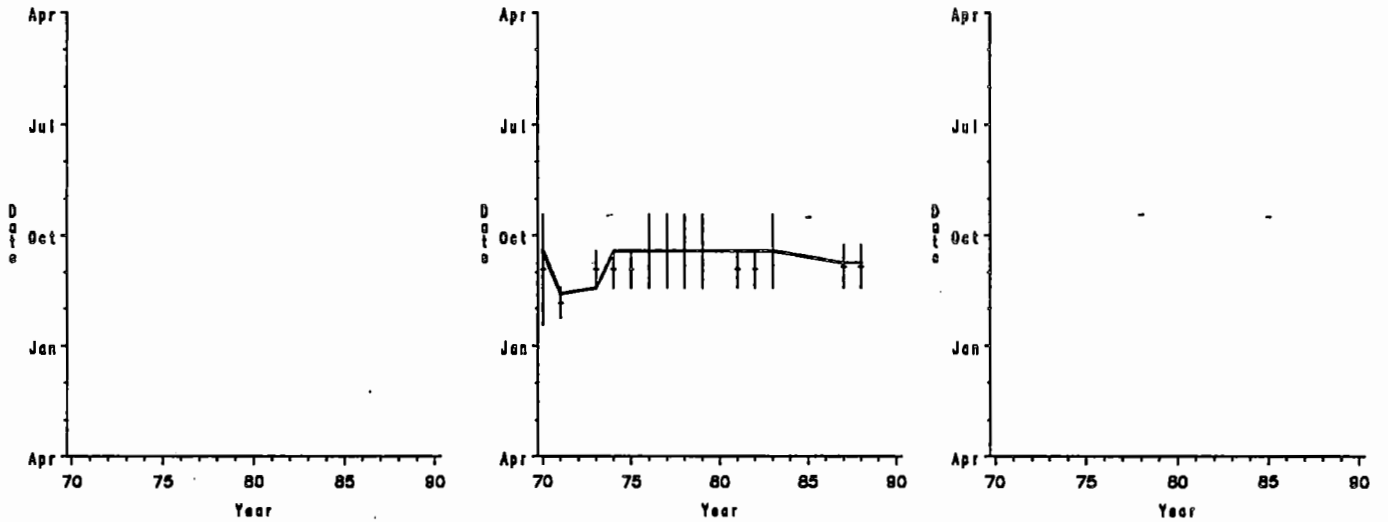
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	300	15SEP	15OCT	15DEC
1971	200	15NOV	20NOV	10DEC
1972	0	-	-	-
1973	200	15OCT	15NOV	15NOV
1974	150	15OCT	15OCT	15NOV
1975	32	15OCT	15OCT	15NOV
1976	100	15SEP	15OCT	15NOV
1977	350	15SEP	15OCT	15NOV
1978	350	15SEP	15OCT	15NOV
1979	10	15SEP	15OCT	15NOV
1980	75	-	-	-
1981	40	15OCT	15OCT	15NOV
1982	24	15OCT	15OCT	15NOV
1983	100	15SEP	15OCT	15NOV
1984	50	-	-	-
1985	50	-	-	17SEP
1986	50	-	-	-
1987	50	10OCT	15OCT	15NOV
1988	10	10OCT	15OCT	15NOV
1989	50	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	150	-	-	15SEP
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	1	-	-	17SEP
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	100	-	-	-

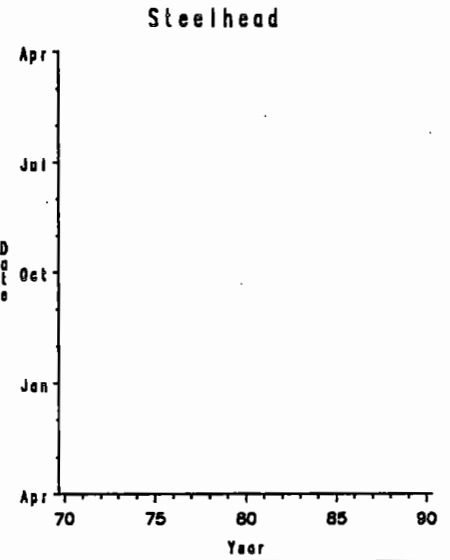
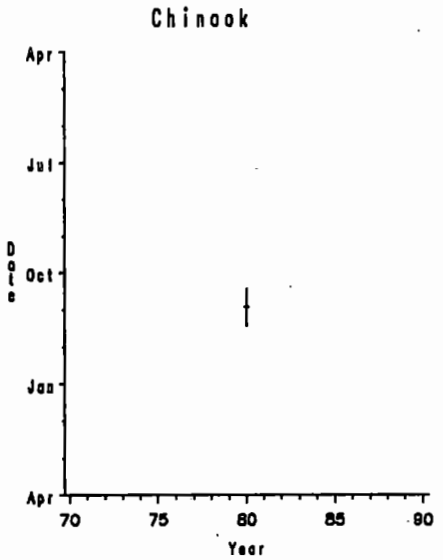
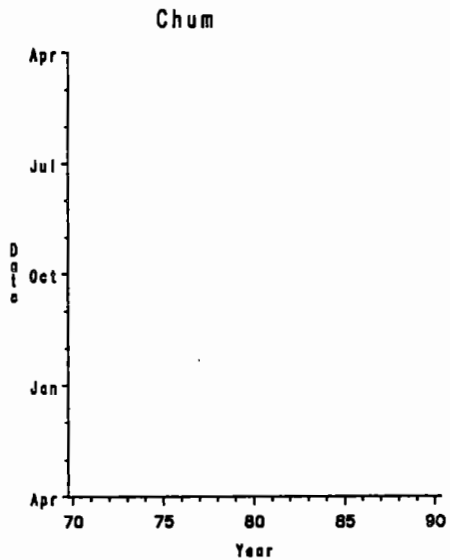
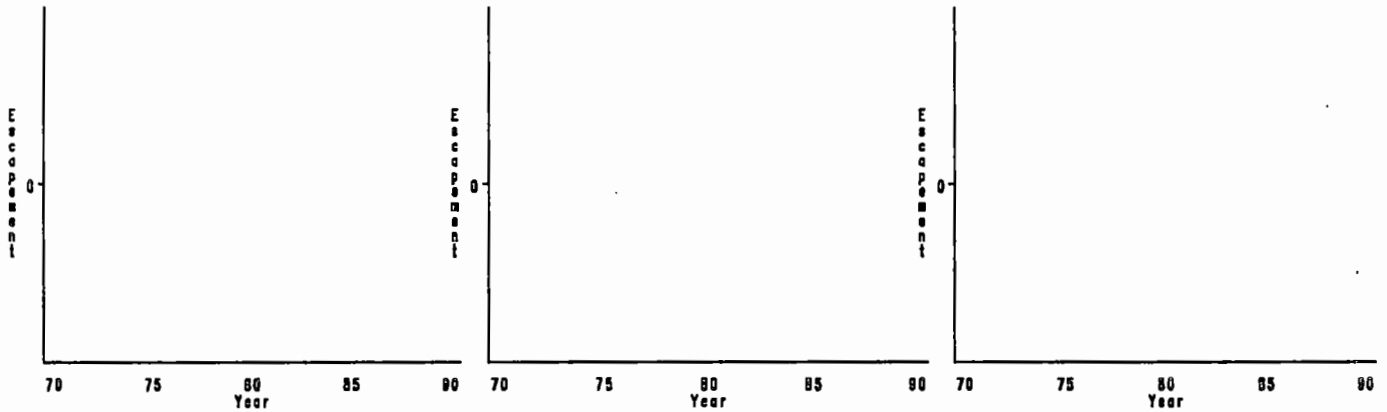
KATHLYN CREEK (46-3500)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

Steelhead (ST)



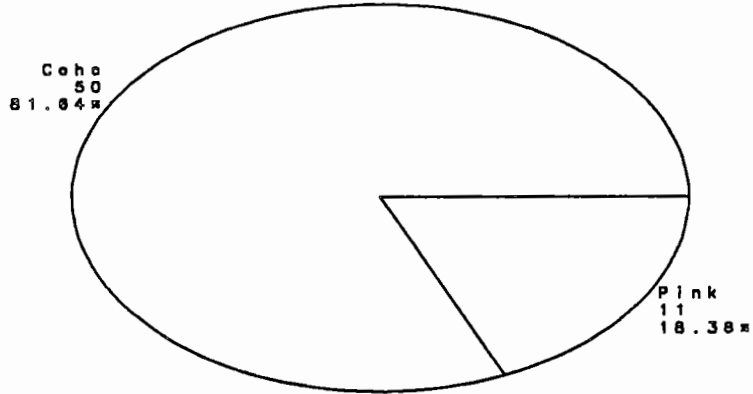
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	-	15OCT	15OCT	15NOV
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

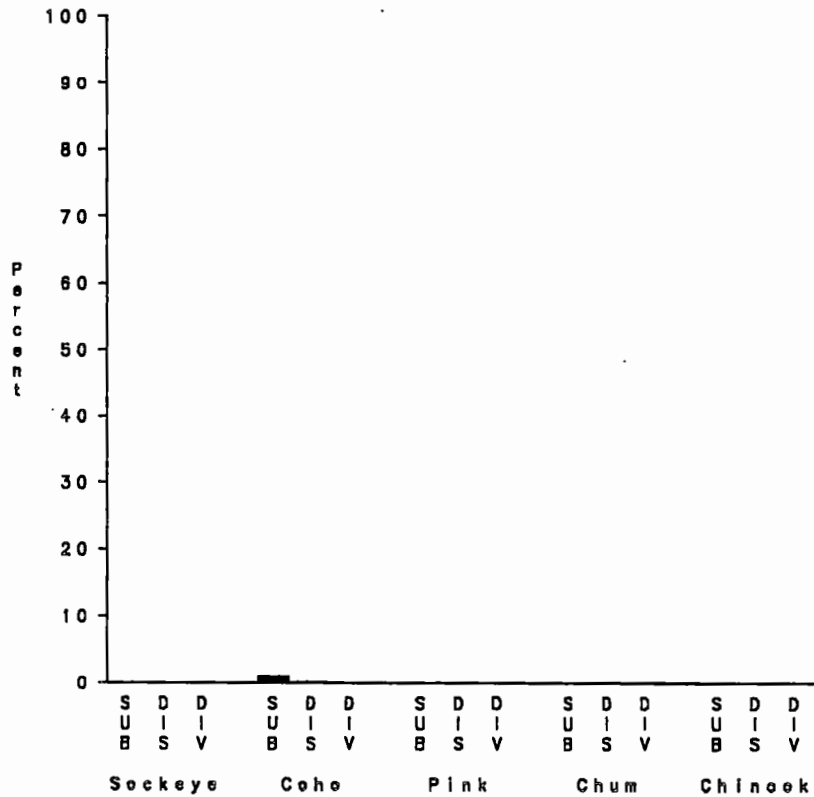
KATHLYN CREEK (46-3500)

10-yr Mean Escapement
(1980-1989)



KATHLYN CREEK : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: SIMPSON CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3500-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6155.60750
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SE INTO RIGHT BANK KATHLYN C., NW OF SMITHERS.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE012	No. 2:	No. 3:	No. 4:

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED SPAWNING AT 0.4 KM (REF. 40-22, REF. 40-140)
CT CUTTHROAT TROUT	OBSERVED AT 0.4 KM (REF. 40-22)
NW ROCKY MTN WHITEFISH	OBSERVED AT 0.4 KM (REF. 40-22)
RB RAINBOW TROUT	OBSERVED AT 0.4 KM (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Ju1	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: TELKWA RIVER	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/11
GOATHORN CREEK	010	B.C.G.S. (1:20k) Map:
PINE CREEK	020	U.T.M. Mouth: 9.6255.60625
HOWSON CREEK	050	Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
WINFIELD CREEK	080	Mainstem Length: Ref. No.:
SINCLAIR CREEK	090	Watershed Area: Ref. No.:
TSAI CREEK	100	Location: FLOWS NE INTO LEFT BANK BULKLEY R., RGE. 5, COAST DIST.
ELLIOTT CREEK	110	

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE020	No. 2:	No. 3:	No. 4:

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED SPawning TO 50 KM - MAIN SPawning IN UPPER PORTION ABOVE MILK C. (REF. 4D-103, REF. 4D-114, REF. 4D-140)
PK PINK SALMON	SPawning IN LOWER END OF HOWSON C (REF. 4D-103, REF. 4D-113)
ST STEELHEAD	OBSERVED IN HOWSON C (REF. 4D-102, REF. 4D-103)
CT CUTTHROAT TROUT	OBSERVED IN TRIBUTARIES (REF. 4D-22)
DV DOLLY VARDEN	THROUGHOUT (REF. 4D-22)
MW ROCKY MTN WHITEFISH	OBSERVED IN TRIBUTARIES (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON	300	1980 - 1989	28A-18	1000	4D-158	1000	4D-158
ST STEELHEAD	193	1963 - 1984	4D-102	482	4D-102		
Comments: TURBID WATER PREVENTS ACCURATE ESCAPEMENT COUNTS (REF. 4D-100)							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing								X X X	X X	X X	X X	X

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DATA ON PK DISTRIBUTION AVAILABLE. (REF. 4D-113)
IMPACTS ASSESSMENT OF TRANSMISSION LINE DEVELOPMENT AVAILABLE. (REF. 4D-47)
IN 1964, 90% OF STREAMBED WAS AFFECTED BY SILTING. FLASH FLOODS ERODED BANKS IN SEVERAL PLACES, CHANGING THE COURSE OF THE STREAM. ABUNDANT SPAWNING GROUNDS BUT SUBJECT TO FLASH FLOODING AND HEAVY SILTING. HIGH FRY AND EGG MORTALITIES. (REF. 4D-100)
RESOURCE ASSESSMENT DATA FOR TELKWA COAL PROJECT AVAILABLE. (REF. 4D-114, REF. 4D-136)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: B MASON	Date: 1991/05/09
Last checked by: T PENDRAY	Date: 1991/05/09

ESCAPEMENT : TELKWA RIVER

WATERSHED-CODE : 46-3800

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	UNK	UNK	UNK	UNK	UNK	UNK
1954	UNK	UNK	UNK	UNK	UNK	UNK
1955	UNK	UNK	UNK	UNK	UNK	UNK
1956	UNK	UNK	UNK	UNK	UNK	UNK
1957	UNK	UNK	UNK	UNK	UNK	UNK
1958	UNK	UNK	UNK	UNK	UNK	UNK
1959	UNK	UNK	UNK	UNK	UNK	UNK
1960	0	400	0	0	0	UNK
1961	0	750	0	0	0	UNK
1962	0	1200	0	0	0	UNK
1963	UNK	UNK	UNK	UNK	UNK	UNK
1964	0	200	0	0	0	UNK
1965	0	200	0	0	0	UNK
1966	0	200	0	0	0	UNK
1967	0	100	0	0	0	UNK
1968	0	100	0	0	0	UNK
1969	0	350	0	0	0	UNK
1970	0	200	0	0	0	UNK
1971	N/O	N/O	0	0	0	UNK
1972	0	N/O	0	0	0	UNK
1973	UNK	0	0	0	0	UNK
1974	UNK	UNK	0	0	0	UNK
1975	0	350	0	0	0	UNK
1976	0	300	0	0	0	UNK
1977	0	500	0	0	0	UNK
1978	0	N/O	0	0	0	UNK
1979	0	UNK	0	0	0	UNK
1980	0	N/O	0	0	0	UNK
1981	0	N/O	0	0	0	UNK
1982	0	1000	UNK	0	0	UNK
1983	0	0	0	0	0	UNK
1984	0	500	0	0	0	UNK
1985	0	500	0	0	0	UNK
1986	0	UNK	UNK	UNK	UNK	UNK
1987	0	UNK	UNK	0	0	UNK
1988	0	100	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

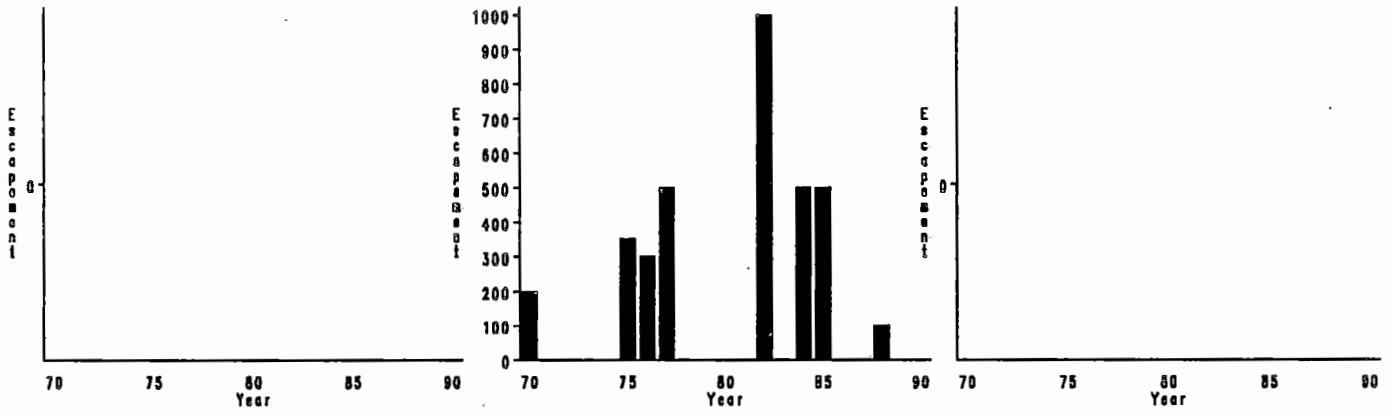
TELKWA RIVER (46-3800)

Escapement & Run Timing

Socketeye (SK)

Coho (CO)

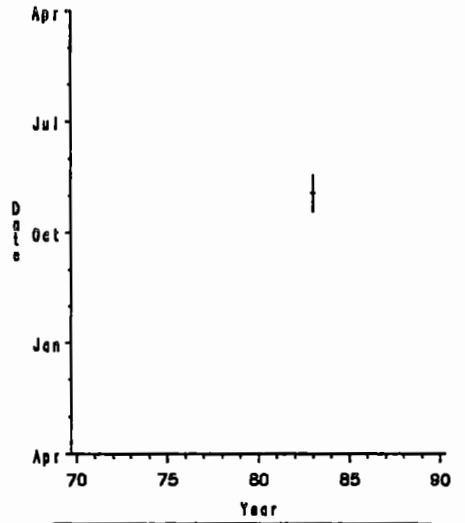
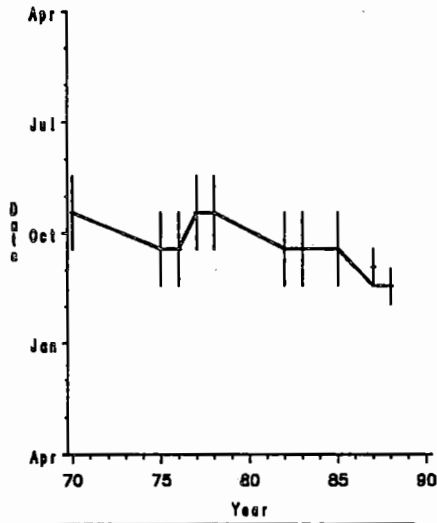
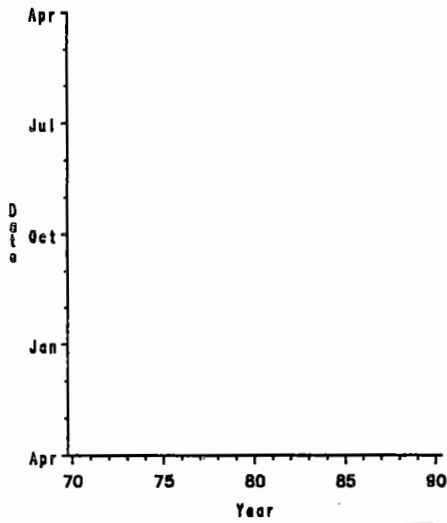
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	200	15AUG	15SEP	15OCT
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	-	-	-	-
1975	350	15SEP	15OCT	15NOV
1976	300	15SEP	15OCT	15NOV
1977	500	15AUG	15SEP	15OCT
1978	0	15AUG	15SEP	15OCT
1979	-	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	1,000	15SEP	15OCT	15NOV
1983	0	15SEP	15OCT	15NOV
1984	500	-	-	-
1985	500	15SEP	15OCT	15NOV
1986	-	-	-	-
1987	-	15OCT	15NOV	15NOV
1988	100	01NOV	15NOV	30NOV
1989	-	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	-	-	-	-
1983	0	15AUG	15AUG	15SEP
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	0	-	-	-
1989	-	-	-	-

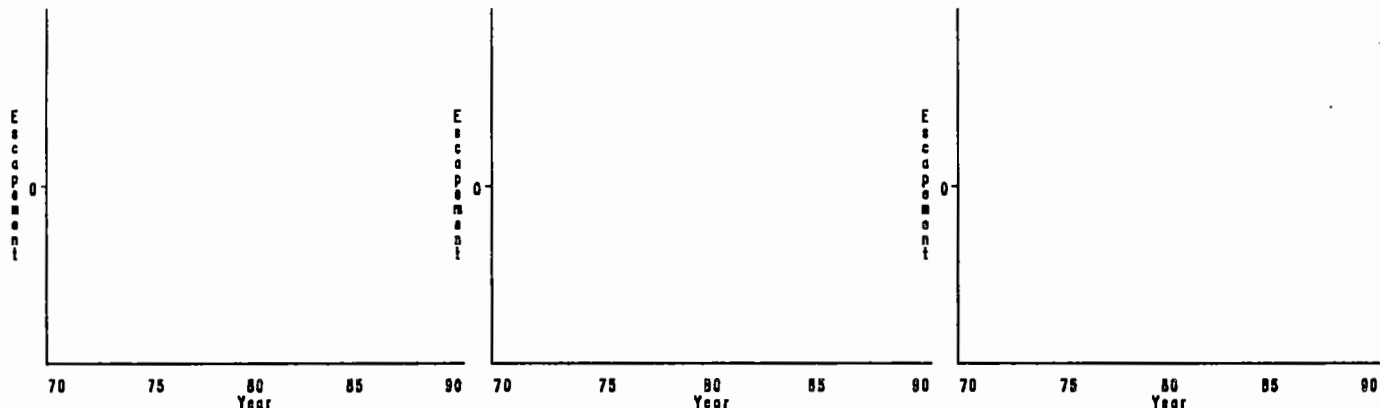
TELKWA RIVER (46-3800)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

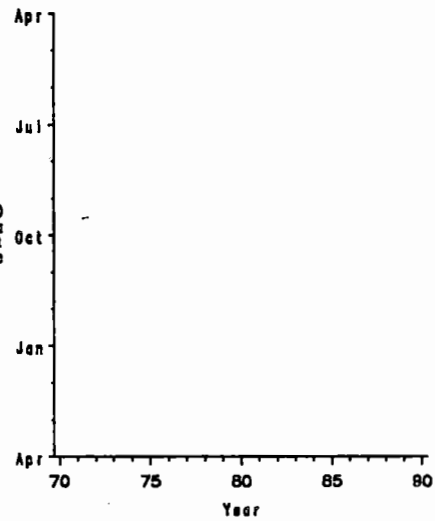
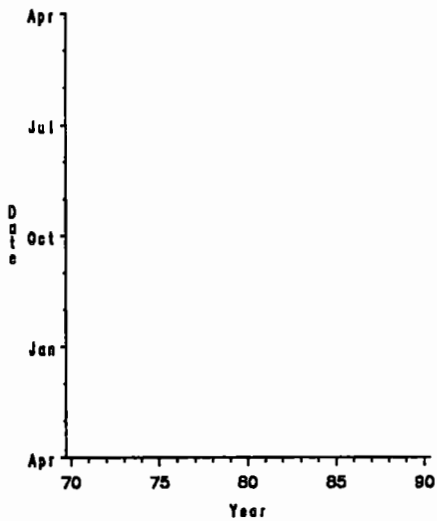
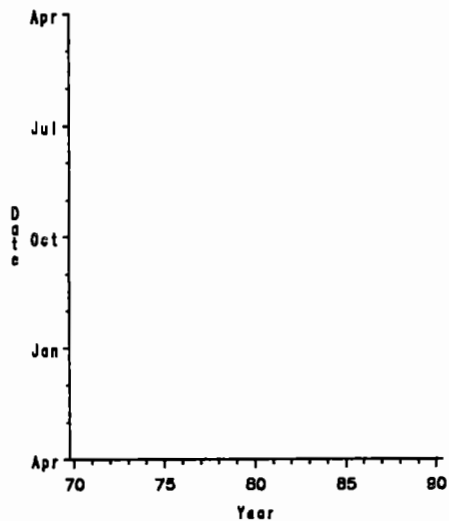
Steelhead (ST)



Chum

Chinook

Steelhead



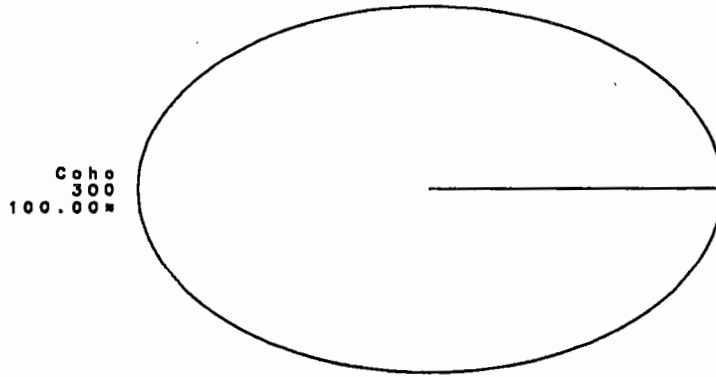
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

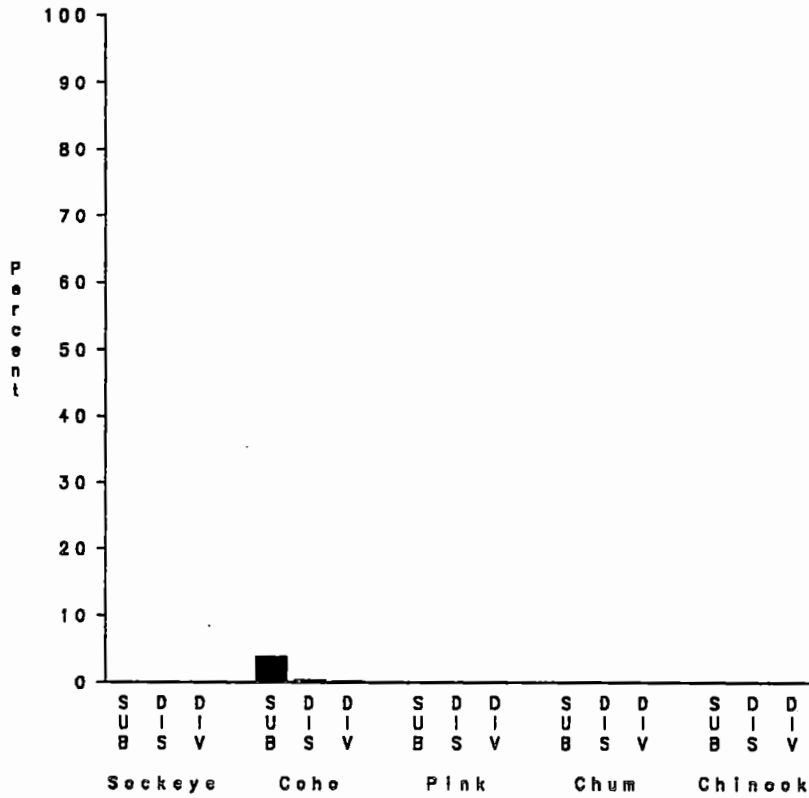
TELKWA RIVER (46-3800)

10-yr Mean Escapement
(1980-1989)



TELKWA RIVER : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: GOATHORN CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-010	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/11
TENAS CREEK	010	B.C.G.S. (1:20k) Map:
CABINET CREEK	030	U.T.M. Mouth: 9.6205.60587
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS N INTO RIGHT BANK OF TELKWA R., SW OF TELKWA.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE008	No. 2:	No. 3:	No. 4:

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
PK PINK SALMON	SPAWNING BELOW 0.8 KM (REF. 4D-113)
ST STEELHEAD	OBSERVED AT 6.0 KM (REF. 4D-102, REF. 4D-103)
DV DOLLY VARDEN	OBSERVED IN TENAS C (REF. 4D-22)
MW ROCKY MTH WHITEFISH	OBSERVED IN TENAS C (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
MI MINING	COAL MINE IN OPERATION SINCE EARLY 1900'S. NOW SOLD TO CROWS NEST RESOURCES WITH POTENTIAL FOR FURTHER MAJOR DEVELOPMENT. (REF. 4D-114)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

RESOURCE ASSESSMENT DATA FOR TELKWA COAL PROJECT AVAILABLE. (REF. 4D-114, REF. 4D-136)
--

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: TENAS CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-010-010	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/NW
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6219.60578
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NORTH INTO LEFT BANK OF GOATHORN CREEK UPSTREAM OF GAS PIPELINE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 0BEE012	No. 2:	No. 3:	No. 4:

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
ST STEELHEAD	OBSERVED AT 10 KM. SPAWNING IN LOWER SECTIONS. (REF. 4D-102, REF. 4D-103)
DV DOLLY VARDEN	OBSERVED AT 10 KM. (REF. 4D-103)
NW ROCKY Mtn WHITEFISH	PRESENT IN LOWER SECTIONS. (REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/17
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A. DESCRIPTION

Stream Name: CABINET CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-010-030	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/11
WEBSTER CREEK	010	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6226.60500
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NORTH INTO LEFT BANK OF GOATHORN CREEK.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
DV DOLLY VARDEN	PRESENCE SAMPLED. (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by:	BERMYN BOONSTRA	Date: 1990/04/17
Checked by:	TOM PENDRAY	Date: 1990/04/17

A. DESCRIPTION

Stream Name: WEBSTER CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-010-030-010	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/11
UNNAMED CREEK	010	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6210.60474
		Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows WEST INTO RIGHT BANK OF CABINET CREEK.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
DV DOLLY VARDEN	PRESENCE SAMPLED. (REF. 4D-22, REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17

A. DESCRIPTION

Stream Name: PINE CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/11
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6150.60570
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows SE INTO LEFT BANK TELKWA R., SW OF TELKWA.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	3.0	2.4		(REF. 4D-22)
F FALLS		13.0		(REF. 4D-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
PK PINK SALMON	SPAWNING IN LOWER 2.0 KM (REF. 4D-103)
CT CUTTHROAT TROUT	OBSERVED AT 5.0 KM (REF. 4D-22)
DV DOLLY VARDEN	OBSERVED AT 10 KM (REF. 4D-22)
NW ROCKY MTN WHITEFISH	OBSERVED AT 5.0 KM (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	TOM PENDRAY	Date:	1991/02/22

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	TOM PENDRAY	Date:	1991/02/22

A. DESCRIPTION

Stream Name: SUNSETS CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-050-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/5
UNNAMED CREEK	020	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6069.60392
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows WEST INTO RIGHT BANK OF HOWSON CREEK.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CT CUTTHROAT TROUT	PRESENT IN LOWER REACHES UPTO MOOSESKIN JOHNNY CR. (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DV ALSO SUSPECTED PRESENT. (REF. 4D-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name: MOOSESKIN JOHNNY CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-050-020-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/SW
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6069.60386
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS FROM MOOSESKIN JOHNNY LAKE NORTH INTO LEFT BANK OF SUNSETS C.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CT CUTTHROAT TROUT	OBSERVED IN MOOSESKIN JOHNNY LAKE. (REF. 40-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DV ALSO SUSPECTED PRESENT. (REF. 40-22)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17

A. DESCRIPTION

Stream Name: WINFIELD CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-080	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/11
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5985.60516
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows SOUTH INTO LEFT BANK OF TELKWA RIVER.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
OV DOLLY VARDEN	PRESENCE SAMPLED. (REF. 40-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17

A. DESCRIPTION

Stream Name: SINCLAIR CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-090	Subdistrict: 4D SWITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/MW
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5965.60518
		Lat./Long. Mouth: D6. ' ' DG. ' ' "
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SOUTH INTO LEFT BANK OF TELKWA RIVER.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
DV DOLLY VARDEN	PRESENT. SAMPLED AT BRIDGE CROSSING. (REF. 4A-159, REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
LD LINEAR DEVELOPMENT	PIPELINE ACCESS ROAD UPGRADED AND BRIDGE INSTALLED (1990). SOME STREAM CHANNELIZATION OCCURRED DURING CONSTRUCTION. (REF. 4A-159)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

VERY UNSTABLE BRAIDED CHANNEL IN VICINITY OF BRIDGE CROSSING. (REF. 4A-159)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	BERMYN BOONSRTA	Date:	1990/04/17
Checked by:	TON PENDRAY	Date:	1990/04/17
Last updated by:	TON PENDRAY	Date:	1991/02/22

A. DESCRIPTION

Stream Name: TSAI CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/12
UNNAMED CREEK	010	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5946.60510
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SE INTO LEFT BANK OF TELKWA R., SW OF TELKWA.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	20.0	4.0		IMPASSABLE (REF. 4D-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED IN TRIBUTARY (REF. 4D-22)
DV DOLLY VARDEN	OBSERVED IN TRIBUTARY AND SAMPLED AT BRIDGE CROSSING. (REF. 4A-159, REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
LD LINEAR DEVELOPMENT	PIPELINE ACCESS ROAD UPGRADED (1990). CROSSING CONSISTS OF A FORD. (REF. 4A-159)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-100-010	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/12
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5940.60515
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS S INTO TSAI C., AT POWER LINE. NOT EXACTLY AS SHOWN ON NTS MAP.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	4.0	3.0		(REF. 4D-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 0.7 KM (REF. 4D-22)
DV DOLLY VARDEN	OBSERVED AT 0.7 KM (REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: ELLIOTT CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-3800-110	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/12
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5925.60488
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: - Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS N INTO RIGHT BANK TELKWA R., SW OF TELKWA.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	8.0	3.5		IMPASSABLE FALLS. (REF. 4D-22)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED SPawning AT 2.0 KM (REF. 4D-114)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: HELPS CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-4100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/11 B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6282.60597 Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0" Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
Location: FLOWS NE INTO LEFT BANK BULKLEY R., SE OF TELKWA.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 2.0 KM (REF. 4D-103, REF. 4D-164)
ST STEELHEAD	OBSERVED AT 2.0 KM (REF. 4D-103)
CT CUTTHROAT TROUT	OBSERVED SPAWNING AT 7.0 KM (REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

RESOURCE ASSESSMENT DATA FOR TELKWA COAL PROJECT AVAILABLE (REF. 4D-114)
--

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	TOM PENDRAY	Date:	1991/02/26

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name: ROUND LAKE CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-4300	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/10 B.C.G.S. (1:20k) Map: U.T.M. Mouth: 9.6355.60548 Lat./Long. Mouth: 06. ' ' 06. ' ' ' ' ' ' Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
		Location: FLOWS SOUTH INTO RIGHT BANK OF BULKLEY RIVER, WEST OF QUICK.

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: FED BY ROUND LAKE. (REF. 6N-28)			
LAKE SURVEY DATA AVAILABLE FOR ROUND LAKE. (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
BB BURBOT	PRESENT IN ROUND LAKE. (REF. 4D-92)
CT CUTTHROAT TROUT	PRESENT THROUGHOUT TO ROUND LAKE. (REF. 4D-92)
RB RAINBOW TROUT	PRESENT IN LOWER CREEK AND STOCKED IN ROUND LAKE. (REF. 4D-92, REF. 4D-102)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	BERMYN BOONSTRA	Date:	1990/04/17
Checked by:	TOM PENORAY	Date:	1990/04/17
Last updated by:	GIRA TINGSTAD	Date:	1991/02/22
Last checked by:	TOM PENORAY	Date:	1990/12/11

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name: COFFIN LAKE CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-4400	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/10 B.C.G.S. (1:20k) Map: U.T.M. Mouth: Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' ' Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
Location: FLOWS NORTH INTO LEFT BANK OF BULKLEY RIVER, WEST OF QUICK.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: FED BY COFFIN LAKE. (REF. 6N-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CT CUTTHROAT TROUT	PRESENT THROUGHOUT TO COFFIN LAKE. (REF. 4D-92)
DV DOLLY VARDEN	PRESENT THROUGHOUT TO COFFIN LAKE. (REF. 4D-92)
RB RAINBOW TROUT	PRESENT THROUGHOUT TO COFFIN LAKE. (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/17
Last updated by: GINA TINGSTAD	Date: 1991/02/22
Last checked by: TOM PENDRAY	Date: 1990/12/11

A. DESCRIPTION

Stream Name: THOMPSON CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-4700	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/10
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6403.60477
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NW INTO RIGHT BANK OF BULKLEY RIVER.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: LAKE SURVEY DATA AVAILABLE FOR FISHPAN LAKE. (REF. 40-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
RB RAINBOW TROUT	PRESENT IN FISHPAN LAKE. (REF. 40-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/23
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G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	BERWYN BOONSTRA	Date:	1990/04/17
Last updated by:	GINA TINGSTAD	Date:	1991/02/22
Last checked by:	TOM PENDRAY	Date:	1990/12/11

A. DESCRIPTION

Stream Name: EMERSON CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5200	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/7
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth:
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NE INTO LEFT BANK BULKLEY RIVER WEST OF MORICE RIVER CONFLUENCE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
NO INFORMATION AVAILABLE	

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
HY HATCHERY	CH CHINOOK SALMON	0.5	PILOT HATCHERY OPERATION FOR INCUBATION OF CHINOOK FROM MORICE RIVER. ABANDONED DUE TO COLD WATER TEMPERATURES. (REF. 4B-170)	1980/1984

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: TOM PENDRAY	Date: 1991/02/22
Checked by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: STOCK CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5300	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/7
DUNALTER CREEK	020	B.C.G.S. (1:20k) Map: U.T.M. Mouth: 9.6452.60325 Lat./Long. Mouth: DG. ' ' DG. ' ' Mainstem Length: Watershed Area: Ref. No.:
Location: FLOWS SOUTH INTO RIGHT BANK OF BULKLEY R., AT BARRETT		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: LAKE SURVEY DATA FOR DUNALTER LAKE AVAILABLE. (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CT CUTTHROAT TROUT	PRESENT IN DUNALTER LAKE. (REF. 4D-92)
RB RAINBOW TROUT	PRESENT IN DUNALTER LAKE. (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERWYN BOONSTRA	Date: 1990/04/23
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A. DESCRIPTION

Stream Name: MORICE RIVER	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/7
HOUSTON TOMMY CREEK	040	B.C.G.S. (1:20k) Map:
OWEN CREEK	050	U.T.M. Mouth: 9,6465.60312
FENTON CREEK	060	Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
LAMPREY CREEK	100	Mainstem Length: Ref. No.:
THAUTIL RIVER	140	Watershed Area: Ref. No.:
UNNAMED CREEK	170	Location: FLOWS N INTO BULKLEY R., SE OF BARRETT, RGE. 5, COAST DIST.
MCBRIDE CREEK	180	
NANIKA RIVER	190	
ATNA RIVER	240	

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y
W.S.C. Station No. 1: 08ED003	No. 2: 08ED002 No. 3: No. 4:
Comments: FLOW DATA AVAILABLE. (REF. 4D-51, REF. 4D-66)	
LAKE SURVEY DATA FOR MORICE LAKE AVAILABLE. (REF. 4D-92)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	TO MORICE LAKE AND TRIBUTARIES. SOME LAKE SPAWNING. (REF. 4D-1, REF. 4D-92)
CO COHO SALMON	TO MORICE LAKE AND TRIBS. SPAWNING IN RIVER SIDECHANNELS AND AT LAKE OUTLET. (REF. 4D-1, REF. 4D-92, REF. 4D-156)
PK PINK SALMON	OBSERVED SPAWNING AT 72 KM. RIVER SIDECHANNELS HEAVILY UTILIZED. (REF. 4D-1, REF. 4D-103)
CH CHINOOK SALMON	TO MORICE LAKE - MAJOR SPAWNING AT LAKE OUTLET. (REF. 4D-1, REF. 4D-92)
ST STEELHEAD	TO MORICE LAKE AND TRIBUTARIES. (REF. 4D-1, REF. 4D-92)
BB BURBOT	IN MORICE LAKE AND OWEN LAKE. (REF. 4D-92)
CT CUTTHROAT TROUT	THROUGHOUT (REF. 4D-1, REF. 4D-92)
DV DOLLY VARDEN	THROUGHOUT (REF. 4D-1, REF. 4D-92)
KD KOKANEK	IN MORICE LAKE (REF. 4D-92)

D. DISTRIBUTION SUMMARY CONTINUED

Species	Watershed Distribution
LT LAKE TROUT	IN MORICE LAKE. (REF. 4D-92)
LW LAKE WHITEFISH	IN MORICE LAKE. (REF. 4D-92)
MW ROCKY MTN WHITEFISH	TO MORICE LAKE (REF. 4D-1, REF. 4D-92)
RB RAINBOW TROUT	THROUGHOUT (REF. 4D-1, REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
SK SOCKEYE SALMON		-				2000	4D-158
CO COHO SALMON	114	1980 - 1989	28A-18	500	4D-158	10050	4D-158
PK PINK SALMON	26020	1980 - 1988	28A-18	70000	4D-158	50000	4D-158
PK PINK SALMON	104500	1981 - 1989	28A-18	300000	28A-18		
CH CHINOOK SALMON	7800	1980 - 1989	28A-18	15000	4D-158	15000	4D-158
Comments: ONLY 500 CO 1981, 300 CO 1984				MORICE LAKE 20 COHO IN 1980 (REF. 28A-18)			

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SK SOCKEYE SALMON	Migration Spawning Incubation Rearing							X	X X	X X	X X		
CO COHO SALMON	Migration Spawning Incubation Rearing								X X X X	X X	X X	X X	X
PK PINK SALMON	Migration Spawning Incubation Rearing								X X X	X X			
CH CHINOOK SALMON	Migration Spawning Incubation Rearing							X	X X	X X	X X		
ST STEELHEAD	Migration Spawning Incubation Rearing					X X	X X	X	X X	X X	X X	X	

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		SEVERAL SIDE CHANNEL SITES MONITORED ANNUALLY FOR JUVENILE CO DENSITIES. (REF. 4D-163)	1987/
MR MARK RECOVERY	DV DOLLY VARDEN LT LAKE TROUT MW ROCKY MTN WHITEFISH RB RAINBOW TROUT ST STEELHEAD	0.0	(REF. 4D-66)	1979/1980

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED CONTINUED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
MR MARK RECOVERY	CH CHINOOK SALMON CO COHO SALMON	0.0	50 CH AND 182 CO (REF. 4D-64)	1974/1974
MR MARK RECOVERY	CH CHINOOK SALMON CO COHO SALMON	0.0	50000 CH FRY (REF. 4D-51)	1978/1980
JP JUVENILE PLANT	ST STEELHEAD	0.0	FRY RELEASES: 3900 IN 1985, 20976 IN 1986. (REF. 4D-102)	1985/1986
FT LAKE FERTILIZAT'M	SK SOCKEYE SALMON	0.0	LAKE FERTILIZATION OF MORICE LAKE, FOR MANIKA SK. (REF. 4D-121)	1985/1986
CC CREEL CENSUS		0.0	MORICE LAKE (REF. 4D-66)	1979/1979
MR MARK RECOVERY	ST STEELHEAD	0.0	RADIO TELEMETRY (REF. 4D-44)	1978/1979

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

CH AND CO POPULATION, AND HABITAT UTILIZATION DATA AVAILABLE (REF. 4D-51)
CH POPULATION AND SPawning DATA AVAILABLE (REF. 4D-77)
CH POPULATION DATA AVAILABLE (REF. 4D-71)
DATA ON ST ENHANCEMENT POTENTIAL AVAILABLE (REF. 4D-117)
DETAILED CH, CO, PK AND SK POPULATION, TIMING AND HABITAT UTILIZATION DATA AVAILABLE. ALSO, DATA ON POTENTIAL HABITAT AND KEMANO II DEVELOPMENT IMPACTS. (REF. 4D-64)
DETAILED FISH POPULATION, TIMING AND HABITAT UTILIZATION WITH REFERENCE TO THE KEMANO II DEVELOPMENT AVAILABLE. (REF. 4D-66)
GAMEFISH FEEDING HABITS DATA AVAILABLE (REF. 4D-9)
HABITAT DESCRIPTION OF TRIBUTARIES AVAILABLE (REF. 4D-59)
IMPACTS ASSESSMENT DATA OF THE KEMANO II PROPOSAL AVAILABLE (REF. 4D-46)
IMPACTS ASSESSMENT OF PULPMILL OPERATIONS AT HOUSTON, B.C., AVAILABLE. (REF. 4D-83)
KEMANO II DEVELOPMENT IMPACTS ASSESSMENT DATA AVAILABLE (REF. 4D-80)
MORICE LAKE LIMNOLOGICAL DATA AND KEMANO II DEVELOPMENT IMPACTS DATA AVAILABLE (REF. 4D-75)
MORICE LAKE LIMNOLOGY DATA AVAILABLE (REF. 4D-81)
PK SPawning OCCURS THROUGHOUT - WHEREVER RIFFLES ARE PRESENT. (REF. 4D-140)
SALMON STUDIES DATA AVAILABLE (REF. 4D-82)
SK POPULATION DATA AND NATIVE FOOD FISHERY DATA AVAILABLE (REF. 4D-79)
SNORKEL SURVEY DATA AVAILABLE (REF. 4D-31)
ST, CH POPULATION ESTIMATES DERIVED FROM BOAT SHOCKING DATA AVAILABLE (REF. 4D-38)
ST FRY DENSITY DATA AVAILABLE (REF. 4D-35)
ST POPULATION DATA AND HABITAT DESCRIPTION AVAILABLE (REF. 4D-41)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS CONTINUED

ST POPULATION DATA AVAILABLE (REF. 4D-2)

ST POPULATION DATA IN MORICE R. SIDE CHANNELS AVAILABLE (REF. 4D-25)

JUVENILE CO PRESENCE AND DENSITY INFORMATION AVAILABLE. (REF. 4D-163)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /

Prepared By:

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO
Checked by: TOM PENDRAY
Last updated by: B MASON
Last checked by: T PENDRAY

Date: 1987/04/07
Date: 1987/01/30
Date: 1991/05/08
Date: 1991/05/08

ESCAPEMENT : MORICE RIVER

WATERSHED-CODE : 46-5500

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	700	7500	3500	0	10000	UNK
1954	N/O	10000	1000	0	11000	UNK
1955	N/O	10000	4000	0	7000	UNK
1956	N/O	15000	N/O	0	15000	UNK
1957	N/O	3500	N/O	0	15000	UNK
1958	N/O	3500	25	0	15000	UNK
1959	N/O	3500	3500	0	15000	UNK
1960	0	7500	N/O	0	3500	UNK
1961	0	1500	1500	0	3500	UNK
1962	N/O	1500	N/O	0	4000	UNK
1963	1000	1000	1000	0	7500	UNK
1964	3000	1000	0	0	5000	UNK
1965	200	1500	500	0	5000	UNK
1966	100	1500	500	0	6000	UNK
1967	0	2500	400	0	12000	UNK
1968	0	2500	0	0	7000	UNK
1969	0	3000	2500	0	5000	UNK
1970	0	2500	UNK	0	4600	UNK
1971	0	3000	4500	0	4200	UNK
1972	0	3500	1000	0	8400	UNK
1973	0	4000	14000	0	12000	UNK
1974	0	3000	UNK	0	9000	UNK
1975	100	30	50000	0	2500	UNK
1976	UNK	UNK	100	0	1700	UNK
1977	0	4000	25000	0	4500	UNK
1978	0	3000	200	0	6000	UNK
1979	0	300	5800	0	4100	UNK
1980	0	N/O	100	0	4500	UNK
1981	UNK	500	12500	0	3000	UNK
1982	0	UNK	0	0	3000	UNK
1983	N/O	UNK	30000	0	4500	UNK
1984	N/O	300	N/O	0	4500	UNK
1985	0	0	70000	0	11300	UNK
1986	0	UNK	60000	UNK	15000	UNK
1987	0	0	110000	0	10000	UNK
1988	0	N/O	70000	0	12000	UNK
1989	N/O	N/O	300000	UNK	10200	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

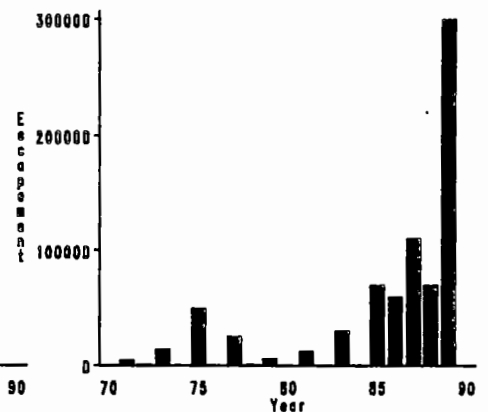
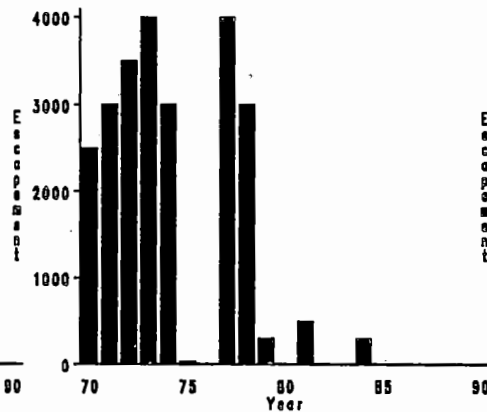
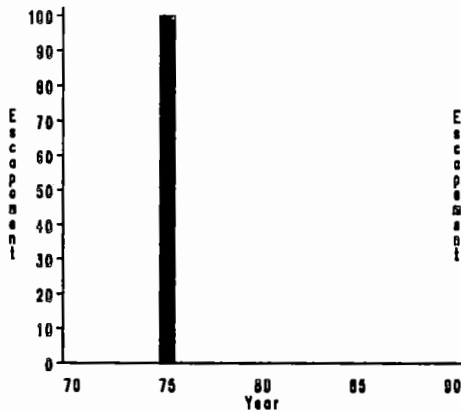
MORICE RIVER (46-5500)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

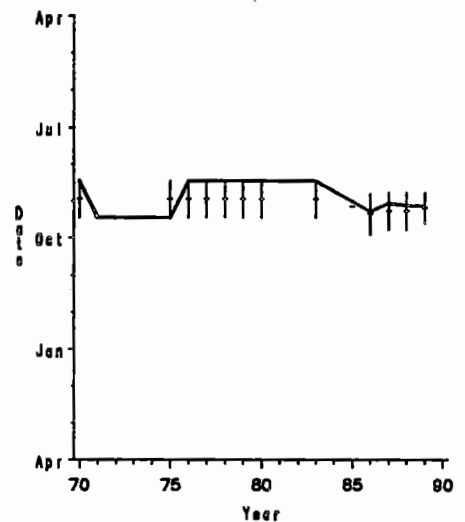
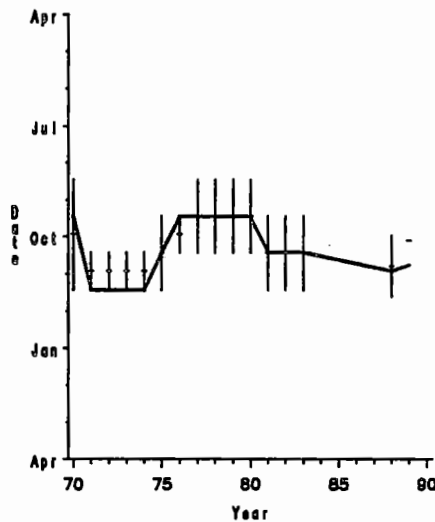
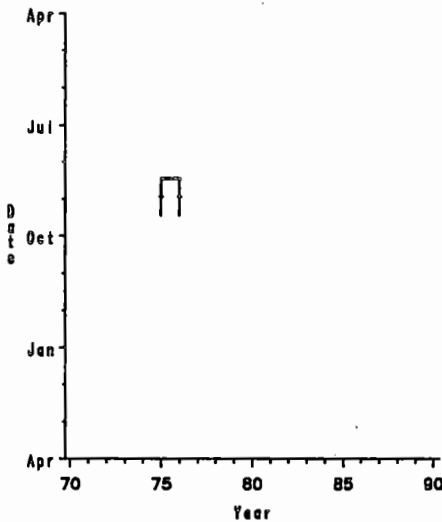
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	100	15AUG	15AUG	15SEP
1976	-	15AUG	15AUG	15SEP
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	-	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	2,500	15AUG	15SEP	15NOV
1971	3,000	15OCT	15NOV	15NOV
1972	3,500	15OCT	15NOV	15NOV
1973	4,000	15OCT	15NOV	15NOV
1974	3,000	15OCT	15NOV	15NOV
1975	30	15SEP	15OCT	15NOV
1976	-	15SEP	15SEP	15OCT
1977	4,000	15AUG	15SEP	15OCT
1978	3,000	15AUG	15SEP	15OCT
1979	300	15AUG	15SEP	15OCT
1980	0	15AUG	15SEP	15OCT
1981	500	15SEP	15OCT	15NOV
1982	-	15SEP	15OCT	15NOV
1983	-	15SEP	15OCT	15NOV
1984	300	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	01OCT	30OCT	20NOV
1989	0	05OCT	25OCT	-

Pink				
Year	Escapement	Start	Peak	End
1970	-	15AUG	15AUG	15SEP
1971	4,500	15SEP	15SEP	15SEP
1972	1,000	15SEP	15SEP	15SEP
1973	14,000	15SEP	15SEP	15SEP
1974	-	-	-	-
1975	30,000	15AUG	15SEP	15SEP
1976	100	15AUG	15AUG	15SEP
1977	25,000	15AUG	15AUG	15SEP
1978	200	15AUG	15AUG	15SEP
1979	5,800	15AUG	15AUG	15SEP
1980	100	15AUG	15AUG	15SEP
1981	12,500	-	-	-
1982	0	-	-	-
1983	30,000	15AUG	15AUG	15SEP
1984	0	-	-	-
1985	70,000	-	-	00SEP
1986	80,000	20AUG	10SEP	20SEP
1987	110,000	25AUG	05SEP	25SEP
1988	70,000	25AUG	05SEP	25SEP
1989	300,000	25AUG	05SEP	20SEP

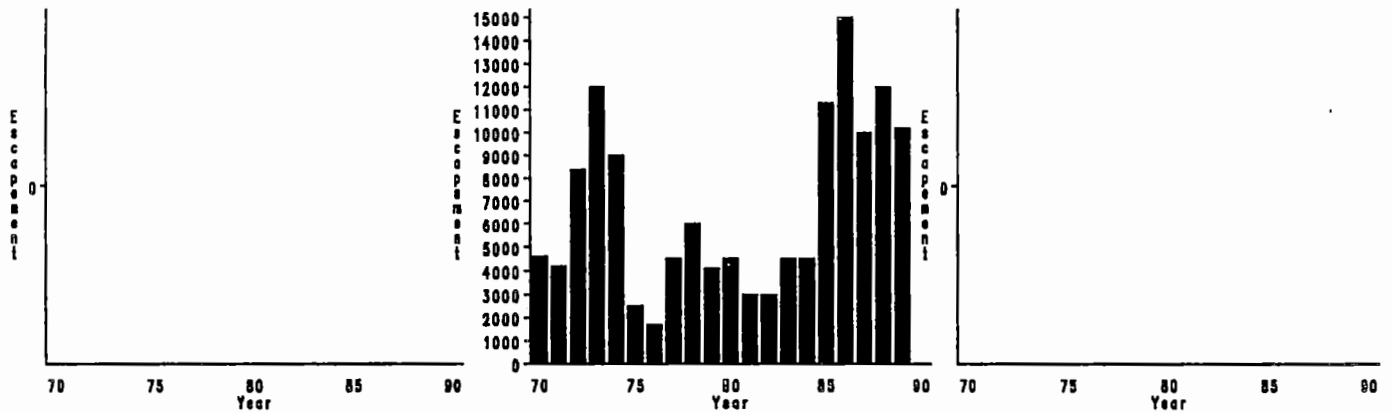
MORICE RIVER (46-5500)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

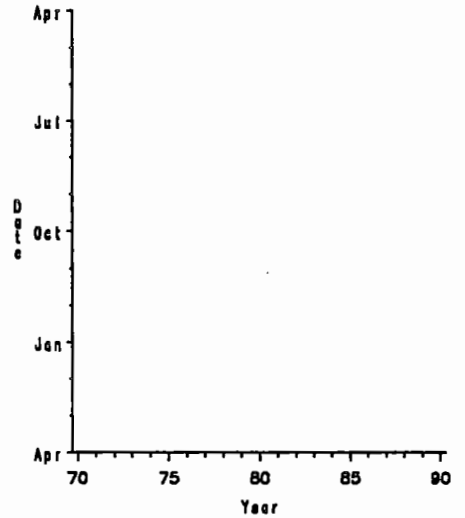
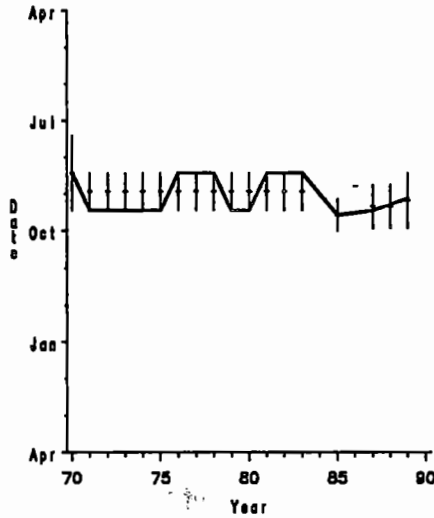
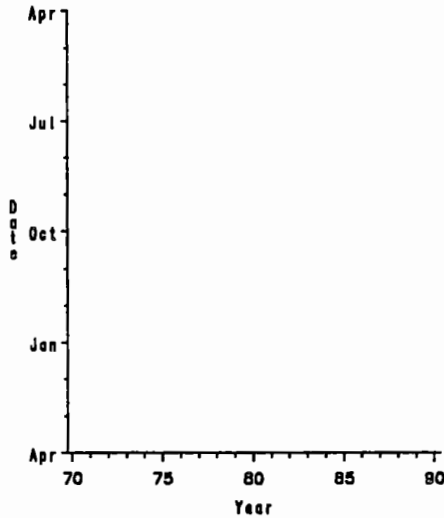
Steelhead (ST)



Chum

Chinook

Steelhead



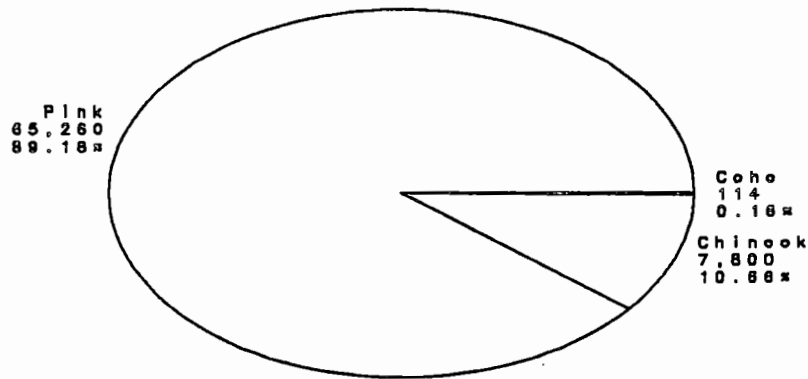
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	4,800	15AUG	15AUG	15SEP
1971	4,200	15AUG	15SEP	15SEP
1972	8,400	15AUG	15SEP	15SEP
1973	12,000	15AUG	15SEP	15SEP
1974	9,000	15AUG	15SEP	15SEP
1975	2,500	15AUG	15SEP	15SEP
1976	1,700	15AUG	15AUG	15SEP
1977	4,500	15AUG	15AUG	15SEP
1978	6,000	15AUG	15AUG	15SEP
1979	4,100	15AUG	15SEP	15SEP
1980	4,500	15AUG	15SEP	15SEP
1981	3,000	15AUG	15AUG	15SEP
1982	3,000	15AUG	15AUG	15SEP
1983	4,500	15AUG	15AUG	15SEP
1984	4,500	-	-	-
1985	11,300	06SEP	10SEP	02OCT
1986	15,000	20AUG	-	-
1987	10,000	25AUG	15SEP	30SEP
1988	12,000	25AUG	10SEP	30SEP
1989	10,200	15AUG	05SEP	30SEP

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

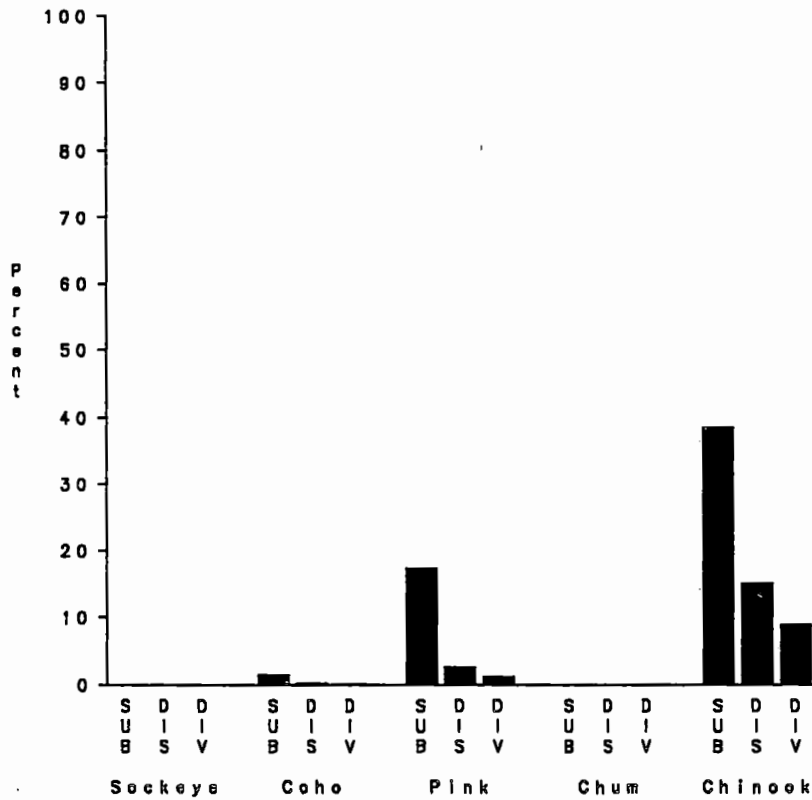
MORICE RIVER (46-5500)

10-yr Mean Escapement
(1980-1989)



MORICE RIVER : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: HOUSTON TOMMY CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-040	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/7
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6399.60164
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS E INTO LEFT BANK MORICE R.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: LAKE FED (REF. 6M-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 15 KM (REF. 4D-66)
PK PINK SALMON	OBSERVED SPAWNING IN LOWER 0.3 KM (REF. 4D-140)
ST STEELHEAD	SPAWNING THROUGHOUT, TO FALLS (REF. 4D-102)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
AU AUGMENTATION	ST STEELHEAD	0.0	FRY RELEASES: 40000 IN 1983, 30000 IN 1984, 43700 IN 1985, 25000 IN 1986. (REF. 4D-102)	1983/1986

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

HABITAT DESCRIPTION AVAILABLE (REF. 4D-64)
ST POPULATION DATA AND HABITAT DESCRIPTION AVAILABLE (REF. 4D-41)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: OWEN CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-050	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/2
KLATE CREEK	090	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6397.60081
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
		Location: FLows NW INTO MORICE R., NW OF OWEN LAKE, RGE. S, COAST DIST.

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	GRADIENT DATA AVAILABLE (REF. 4D-25, REF. 4D-41)

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
BD BEAVER DAM				CONSIDERABLE BEAVER ACTIVITY (REF. 4D-100)
CV CULVERT				CULVERT AT HIGHWAY CAUSES PROBLEMS AT LOW FLOWS (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: FLOW DATA AVAILABLE (REF. 4D-41, REF. 4D-66)			
LAKE FED. LAKE SURVEY DATA FOR OWEN LAKE AVAILABLE (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	HISTORICALLY TO 12 KM BUT ADULTS NOT SEEN IN STREAM SINCE 1980. (REF. 4D-10, REF. 4D-25, REF. 4D-66)
ST STEELHEAD	SPAWNING BELOW 12 KM (REF. 4D-1, REF. 4D-25)
BB BURBOT	IN OWEN LAKE. (REF. 4D-92)
DV DOLLY VARDEN	IN OWEN LAKE (REF. 4D-10, REF. 4D-25)
NW ROCKY MTH WHITEFISH	IN OWEN LAKE (REF. 4D-10, REF. 4D-25)
RB RAINBOW TROUT	IN OWEN LAKE (REF. 4D-10, REF. 4D-25)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON	75	1980 - 1989	28A-18	600	4D-158	500	4D-158
PK PINK SALMON		-				20	4D-158

Comments: 600 CO OBSERVED IN 1980, 2 OBSERVED IN 1987 ONLY. (REF. 28A-18)

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing								X X X	X X	X X	X	
PK PINK SALMON	Migration Spawning Incubation Rearing								X X X	X X			

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		SEVERAL SITES MONITORED ANNUALLY FOR JUVENILE COHO PRESENCE/DENSITIES. (REF. 4D-163)	1987/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
LD LINEAR DEVELOPMENT	CONSTRUCTION OF LOGGING ROAD ALONG CREEK HAS CAUSED HEAVY SILTATION. (REF. 4D-103)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

ADULT CO NOT OBSERVED IN THE CREEK SINCE 1980, JUVENILES PRESENT IN THE LOWER 2 KM ONLY (1987-1990). (REF. 4D-140, REF. 4D-163)
DATA ON CONSTRUCTION OF SPAWNING FACILITIES FOR ST AVAILABLE (REF. 4D-10)
DETAILED FISH POPULATION AND TIMING DATA, AND HABITAT UTILIZATION DATA WITH REFERENCE TO THE KEMANO II DEVELOPMENT AVAILABLE. (REF. 4D-66)
DETAILED HABITAT DESCRIPTION AVAILABLE (REF. 4D-25)
HABITAT DESCRIPTION AVAILABLE (REF. 4D-59)
HABITAT DESCRIPTION AVAILABLE. 2 M HIGH BEAVER DAM AT 0.4 MILE UPSTREAM MIGHT BE A BARRIER. MANY BEAVER DAMS UPSTREAM (AT LEAST 25) EXCELLENT REARING POTENTIAL, GOOD SPAWNING IN UPPER SECTION. (REF. 4D-64)
ST POPULATION DATA AND HABITAT DESCRIPTION AVAILABLE (REF. 4D-41)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	B MASON	Date:	1991/05/09
Last checked by:	T PENDRAY	Date:	1991/05/09

ESCAPEMENT : OWEN CREEK

WATERSHED-CODE : 46-5500-050

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	200	0	0	0	UNK
1954	0	UNK	0	0	0	UNK
1955	0	400	0	0	0	UNK
1956	0	400	0	0	0	UNK
1957	0	200	0	0	0	UNK
1958	0	200	0	0	0	UNK
1959	0	400	0	0	0	UNK
1960	0	200	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	0	300	0	0	0	UNK
1963	0	400	0	0	0	UNK
1964	0	200	0	0	0	UNK
1965	0	200	0	0	0	UNK
1966	0	50	0	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	0	200	0	0	0	UNK
1969	0	200	UNK	0	0	UNK
1970	0	100	0	0	0	UNK
1971	0	N/O	0	0	0	UNK
1972	0	400	12	0	0	UNK
1973	0	100	0	0	0	UNK
1974	0	100	0	0	0	UNK
1975	0	30	0	0	0	UNK
1976	0	50	0	0	0	UNK
1977	0	N/O	0	0	0	UNK
1978	0	UNK	0	0	0	UNK
1979	0	UNK	0	0	0	UNK
1980	0	600	0	0	0	UNK
1981	0	UNK	0	0	0	UNK
1982	0	N/O	0	0	0	UNK
1983	0	N/O	0	0	0	UNK
1984	0	N/O	0	0	0	UNK
1985	0	0	0	0	0	UNK
1986	0	2	0	0	0	UNK
1987	0	N/O	0	0	0	UNK
1988	0	N/O	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

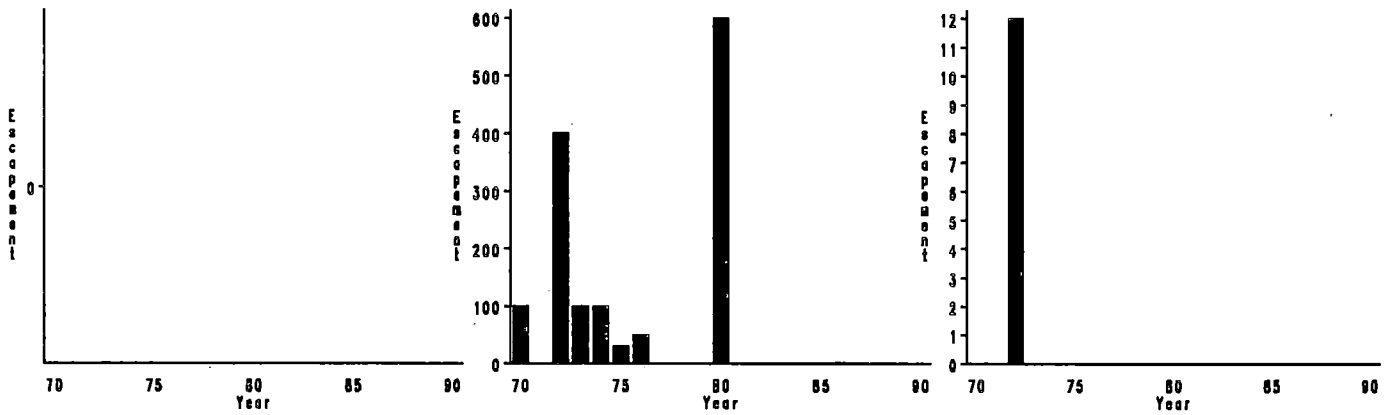
OWEN CREEK (46-5500-050)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

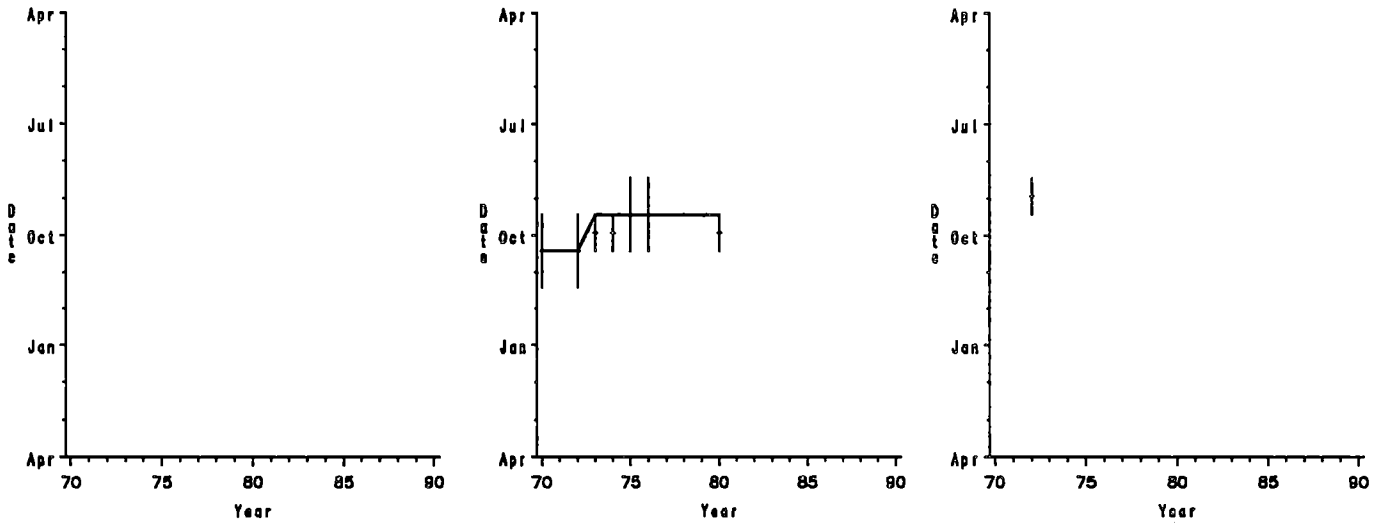
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	100	19SEP	19OCT	19NOV
1971	0	-	-	-
1972	400	19SEP	19OCT	19NOV
1973	100	19SEP	19SEP	19OCT
1974	100	19SEP	19SEP	19OCT
1975	30	19AUG	19SEP	19OCT
1976	50	19AUG	19SEP	19OCT
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	600	19SEP	19SEP	19OCT
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	12	19AUG	19SEP	19SEP
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

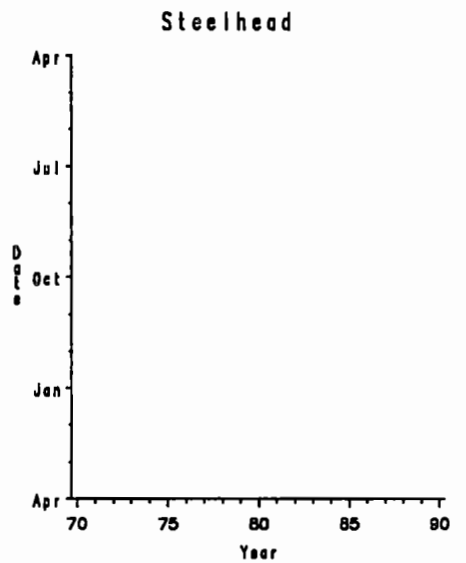
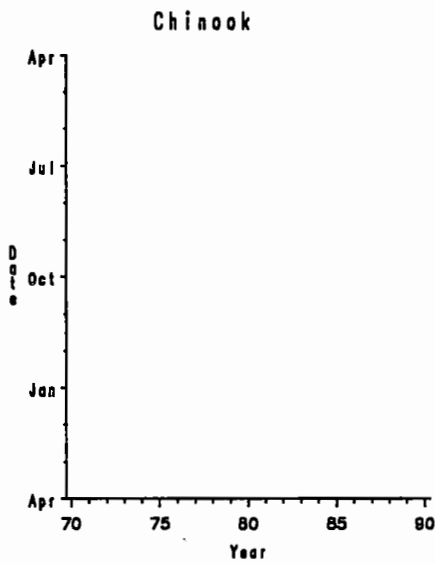
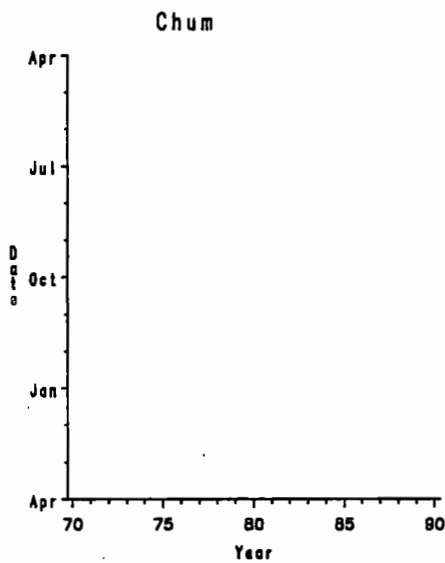
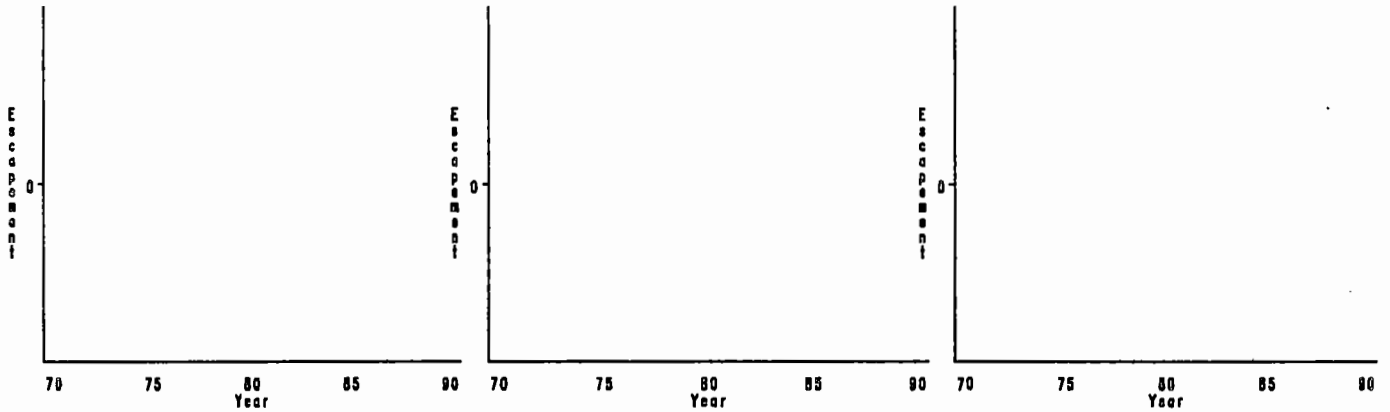
OWEN CREEK (46-5500-050)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

Steelhead (ST)



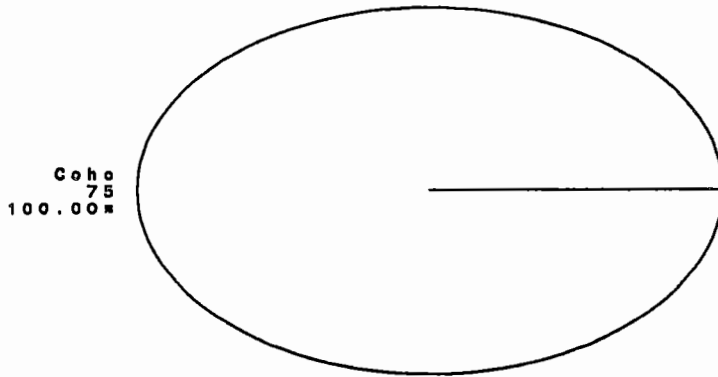
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

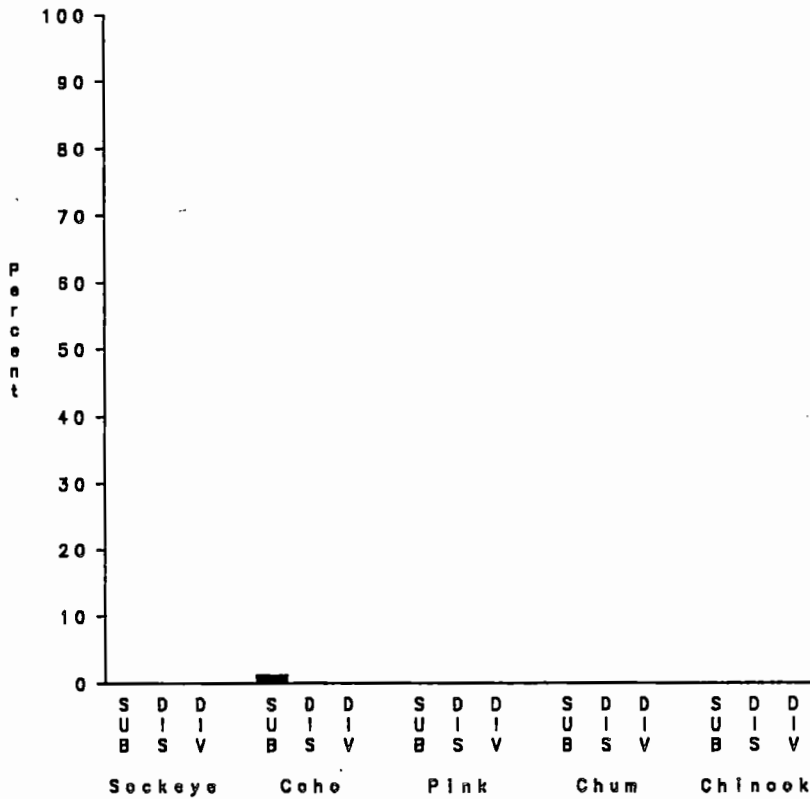
OWEN CREEK (46-5500-050)

10-yr Mean Escapement
(1980-1989)



OWEN CREEK : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: KLATE CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-050-090	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/2
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6470.59968
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: Flows East into Left Bank of Owen Creek.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: FED BY KLATE LAKE. (REF. 6N-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
NO INFORMATION AVAILABLE	

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17

A. DESCRIPTION

Stream Name: FENTON CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-060	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/2
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6366.60083
		Lat./Long. Mouth: 0 06. 0' 0'' 0 06. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows N INTO MORICE R., W OF OWEN HILL.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 2.0 KM. (REF. 40-66)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/22

A. DESCRIPTION

Stream Name: LAMPREY CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/3
UNNAMED CREEK	040	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6249.60056
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NE INTO MORICE R., NE OF MORICE L., RGE.5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	GRADIENT DATA AVAILABLE. (REF. 4D-2S, REF. 4D-41)

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: FLOW DATA AVAILABLE. LAKE HEADED. (REF. 4D-41, REF. 4D-66)			
LAKE SURVEY DATA AVAILABLE FOR COLLINS LAKE AND LAMPREY LAKE. (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED IN LOWER REACHES. (REF. 4D-59, REF. 4D-66)
ST STEELHEAD	SPAWNING OBSERVED IN UPPER REACHES. (REF. 4D-25)
CT CUTTHROAT TROUT	IN UPPER LAKES. (REF. 4D-92)
DV DOLLY VARDEN	PRESENT. (REF. 4D-66)
MW ROCKY MTN WHITEFISH	PRESENT (REF. 4D-66)
RB RAINBOW TROUT	PRESENT IN UPPER LAKES. (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED FISH POPULATION TIMING AND HABITAT UTILIZATION WITH REFERENCE TO KEMANO II DEVELOPMENT AVAILABLE. (REF. 4D-66)
DETAILED HABITAT DESCRIPTION AVAILABLE. FRY STOCKING IS RECOMMENDED DUE TO AVAILABLE HABITAT. (REF. 4D-25)
HABITAT DESCRIPTION AVAILABLE. (REF. 4D-59)
HABITAT DESCRIPTION AVAILABLE. HIGH REARING POTENTIAL AND GOOD SPWNING GRAVEL. (REF. 4D-64)
ST POPULATION DATA AND HABITAT DESCRIPTION AVAILABLE. (REF. 4D-41)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: BERMYN BOONSTRA	Date: 1990/04/20

A. DESCRIPTION

Stream Name: THAUTIL RIVER	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/3
GOSNELL CREEK	010	B.C.G.S. (1:20k) Map:
GABRIEL CREEK	050	U.T.M. Mouth: 9.6082.60075
STARR CREEK	070	Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS S INTO MORICE R., NE OF MORICE L., RGE.5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	GRADIENT DATA AVAILABLE. (REF. 4D-41)

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
C CASCADE				HIGH CANYON AND FAST WATER APPROX. 8 KM FROM THE MOUTH. (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: FLOW DATA AVAILABLE, LAKE FED. (REF. 4D-66)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED IN GABRIEL C. (REF. 4D-11, REF. 4D-102, REF. 4D-103)
PK PINK SALMON	OBSERVED AT GOSNELL C (REF. 4D-22, REF. 4D-66)
CH CHINOOK SALMON	OBSERVED AT GOSNELL C. (REF. 4D-132)
ST STEELHEAD	OBSERVED AT 27 KM. (REF. 4D-103)
CT CUTTHROAT TROUT	OBSERVED AT GOSNELL C. (REF. 4D-103, REF. 4D-132)
DV DOLLY VARDEN	OBSERVED AT 11 KM. (REF. 4D-11, REF. 4D-22)
MW ROCKY MTN WHITEFISH	OBSERVED AT SHEA LAKE. (REF. 4D-11, REF. 4D-22)
RB RAINBOW TROUT	OBSERVED AT 11 KM. (REF. 4D-11, REF. 4D-22)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
PK PINK SALMON		1980 - 1989	28A-18	5000	28A-18	500	4D-158
Comments: 5000 PK OBSERVED IN 1987 ONLY (REF. 28A-18)							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing								X X X	X X	X X	X	

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
JP JUVENILE PLANT	ST STEELHEAD	0.0	FRY RELEASES: 5,700 IN 85, 7,500 IN 86. (REF. 4D-102)	1985/1986

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
FO FORESTRY	LOGGING BEGAN IN THIS AREA APPROX. 1987. (REF. 4A-159)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED FISH POPULATION, TIMING AND HABITAT UTILIZATION, WITH REFERENCE TO THE KEMANO II DEVELOPMENT, AVAILABLE. (REF. 4D-66)
HABITAT DATA AVAILABLE (REF. 4D-106)
HABITAT DESCRIPTION AND WATER QUALITY DATA AVAILABLE. (REF. 4D-11)
HABITAT DESCRIPTION AVAILABLE (REF. 4D-59)
HABITAT DESCRIPTION AVAILABLE. EXCELLENT SPawning GRAVEL IN THE UPPER END. (REF. 4D-64)
IMPACT ASSESSMENT OF TRANSMISSION LINE DEVELOPMENT AVAILABLE (REF. 4D-47)
PREVIOUSLY UNTOUCHED, UNLOGGED WATERSHED. COAL DEPOSITS PRESENT IN UPPER WATERSHED. (REF. 4D-103)
ST POPULATIONS DATA AND HABITAT DESCRIPTION AVAILABLE. (REF. 4D-41)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: CAROL LAMONT	Date: 1991/03/28
Last checked by: TOM PENDRAY	Date: 1991/03/28

ESCAPEMENT : THAUTIL RIVER

WATERSHED-CODE : 46-5500-140

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	UNK	UNK	UNK	UNK	UNK	UNK
1954	UNK	UNK	UNK	UNK	UNK	UNK
1955	UNK	UNK	UNK	UNK	UNK	UNK
1956	UNK	UNK	UNK	UNK	UNK	UNK
1957	UNK	UNK	UNK	UNK	UNK	UNK
1958	UNK	UNK	UNK	UNK	UNK	UNK
1959	UNK	UNK	UNK	UNK	UNK	UNK
1960	UNK	UNK	UNK	UNK	UNK	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	UNK	UNK	UNK	UNK	UNK	UNK
1963	UNK	UNK	UNK	UNK	UNK	UNK
1964	UNK	UNK	UNK	UNK	UNK	UNK
1965	UNK	UNK	UNK	UNK	UNK	UNK
1966	0	300	0	0	0	UNK
1967	0	200	0	0	0	UNK
1968	0	300	0	0	0	UNK
1969	0	300	0	0	0	UNK
1970	0	300	0	0	0	UNK
1971	0	UNK	0	0	0	UNK
1972	0	UNK	0	0	0	UNK
1973	UNK	0	0	0	0	UNK
1974	UNK	UNK	0	0	0	UNK
1975	UNK	UNK	0	0	0	UNK
1976	UNK	0	0	0	0	UNK
1977	0	N/O	0	0	0	UNK
1978	0	UNK	0	0	0	UNK
1979	0	UNK	0	0	0	UNK
1980	0	N/O	0	0	0	UNK
1981	0	UNK	0	0	0	UNK
1982	0	UNK	0	0	0	UNK
1983	0	UNK	0	0	0	UNK
1984	0	0	0	0	0	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	0	0	0	UNK
1987	0	0	5000	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: GOSNELL CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/3
UNNAMED CREEK	020	B.C.G.S. (1:20k) Map:
UNNAMED CREEK	030	U.T.M. Mouth: 9.6080.60077
SHEA CREEK	040	Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
UNNAMED CREEK	060	Mainstem Length: Ref. No.:
UNNAMED CREEK	065	Watershed Area: Ref. No.:
UNNAMED CREEK	070	Location: FLows E INTO THAUTIL R., NEAR ITS CONFLUENCE WITH MORICE RIVER.

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	GRADIENT DATA AVAILABLE (REF. 40-41)

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS	3.0	31.0		PROBABLY IMPASSABLE TO CO. (REF. 40-22, REF. 40-163)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: FLOW DATA AVAILABLE (REF. 40-66)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED TO FALLS AT 31 KM (REF. 40-25, REF. 40-107, REF. 40-132)
PK PINK SALMON	OBSERVED AT 12 KM (REF. 40-66)
CH CHINOOK SALMON	OBSERVED AT 6.0 KM (REF. 40-132)
ST STEELHEAD	OBSERVED SPAWMING BELOW SHEA C. CONFLUENCE (13 KM) (REF. 40-103)
CT CUTTHROAT TROUT	OBSERVED IN TRIBUTARIES (REF. 40-132)
DV DOLLY VARDEN	THROUGHOUT. PRESENT ABOVE FALLS. (REF. 40-22, REF. 40-25, REF. 40-132)
MW ROCKY MTH WHITEFISH	OBSERVED IN SHEA LAKE (REF. 40-25, REF. 40-132)
RB RAINBOW TROUT	OBSERVED IN SHEA C (REF. 40-25, REF. 40-132)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				

E. ESCAPEMENT SUMMARY CONTINUED

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON	153	1980 - 1989	28A-18	1000	4D-158	2000	4D-158
PK PINK SALMON	588	1980 - 1988	28A-18	2250	28A-18	1000	4D-158
PK PINK SALMON		1981 - 1989		15000	28A-18		

Comments: ODD PINK 15000 IN 1987 ONLY (REF. 28A-18)

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X	
PK PINK SALMON	Migration Spawning Incubation Rearing								X X X	X X			

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
JP JUVENILE PLANT	ST STEELHEAD	0.0	FRY RELEASES: 20000 IN 1983, 15000 IN 1984, 11500 IN 1986. (REF. 4D-102)	1983/1986

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
FD FORESTRY	THOUGH CURRENTLY PRISTINE AND UNLOGGED, NORTHWOOD PULP AND TIMBER LTD. IS FORMULATING LONG TERM FOREST HARVESTING PLANS. (REF. 4D-131)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED FISH POPULATION, TIMING AND HABITAT UTILIZATION DATA, WITH REFERENCE TO THE KEMANO II DEVELOPMENT AVAILABLE. (REF. 4D-66)
DETAILED HABITAT DESCRIPTION AVAILABLE (REF. 4D-25)
FISHERIES RESOURCE VALUES MAPS AVAILABLE (REF. 4D-132)
HABITAT DESCRIPTION AND ENHANCEMENT OPPORTUNITIES DATA AVAILABLE (REF. 4D-131)
HABITAT DESCRIPTION AVAILABLE (REF. 4D-59)
HABITAT DESCRIPTION AVAILABLE (REF. 4D-64)
HABITAT SAMPLING DATA AVAILABLE (REF. 4D-107)
ST POPULATION DATA AND HABITAT DESCRIPTION AVAILABLE (REF. 4D-41)
UNTOUCHED, PREVIOUSLY UNLOGGED WATERSHED (REF. 4D-103)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	B MASON	Date:	1991/05/08
Last checked by:	T PENDRAY	Date:	1991/05/08

ESCAPEMENT : GOSNELL CREEK

WATERSHED-CODE : 46-5500-140-010

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	UNK	UNK	UNK	UNK	UNK	UNK
1954	UNK	UNK	UNK	UNK	UNK	UNK
1955	UNK	3000	UNK	UNK	UNK	UNK
1956	0	4000	0	0	0	UNK
1957	N/O	1500	0	0	0	UNK
1958	N/O	3500	0	0	0	UNK
1959	0	3500	0	0	0	UNK
1960	0	1500	0	0	0	UNK
1961	0	1500	0	0	0	UNK
1962	UNK	UNK	UNK	UNK	UNK	UNK
1963	0	1000	0	0	0	UNK
1964	0	500	0	0	0	UNK
1965	0	1000	0	0	0	UNK
1966	0	1000	0	0	0	UNK
1967	0	1200	0	0	0	UNK
1968	0	1500	0	0	0	UNK
1969	0	1000	0	0	0	UNK
1970	0	1000	0	0	0	UNK
1971	0	N/O	0	0	0	UNK
1972	0	UNK	0	0	0	UNK
1973	0	N/O	0	0	0	UNK
1974	0	UNK	0	0	0	UNK
1975	0	UNK	1200	0	0	UNK
1976	0	UNK	UNK	0	0	UNK
1977	0	N/O	200	0	0	UNK
1978	0	UNK	UNK	0	0	UNK
1979	N/O	N/O	N/O	0	0	UNK
1980	0	1000	N/O	0	0	UNK
1981	UNK	UNK	UNK	0	0	UNK
1982	0	0	2250	0	0	UNK
1983	0	UNK	UNK	0	0	UNK
1984	N/O	N/O	N/O	0	N/O	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	UNK	0	0	UNK
1987	0	0	15000	0	0	UNK
1988	0	50	100	0	0	UNK
1989	UNK	20	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

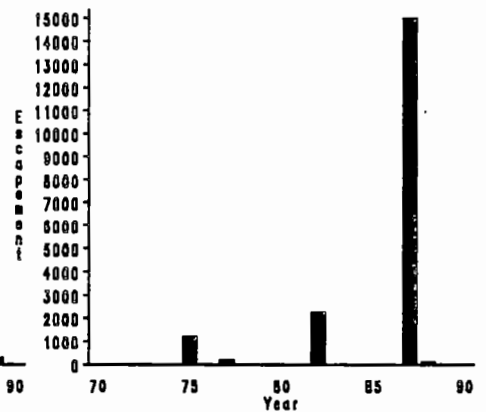
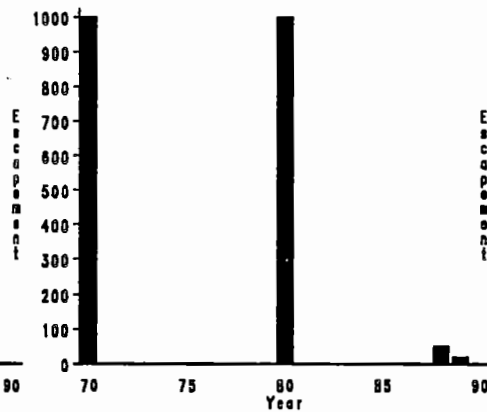
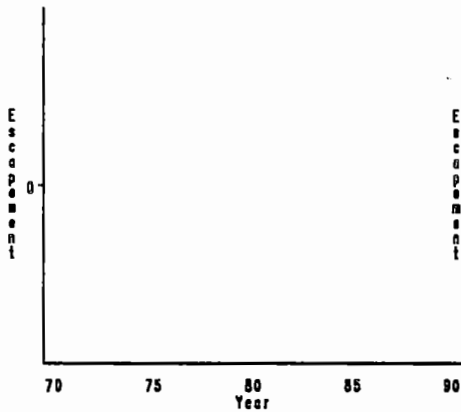
GOSNELL CREEK (46-5500-140-010)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

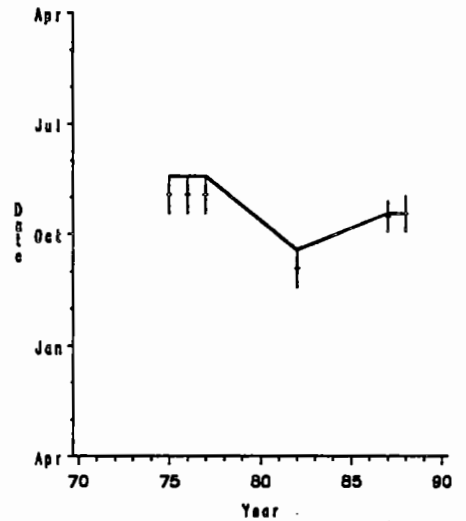
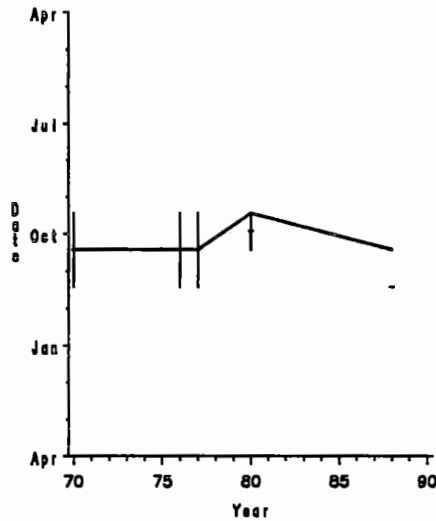
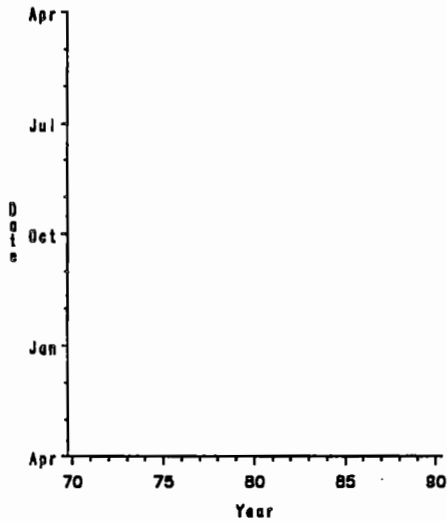
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1976	1,000	15SEP	15OCT	15NOV
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	0	15SEP	15OCT	15NOV
1978	0	-	-	-
1979	0	-	-	-
1980	1,000	15SEP	15SEP	15OCT
1981	-	-	-	-
1982	0	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	50	-	15OCT	15NOV
1989	20	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1976	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	1,200	15AUG	15AUG	15SEP
1976	-	15AUG	15AUG	15SEP
1977	200	15AUG	15AUG	15SEP
1978	-	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	-	-	-	-
1982	2,250	15OCT	15OCT	15NOV
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	15,000	05SEP	15SEP	30SEP
1988	100	01SEP	15SEP	30SEP
1989	-	-	-	-

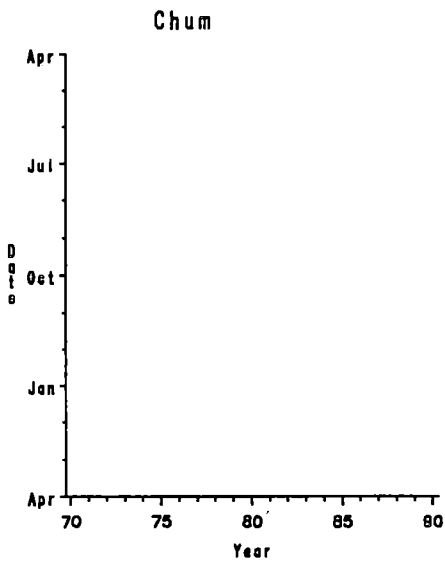
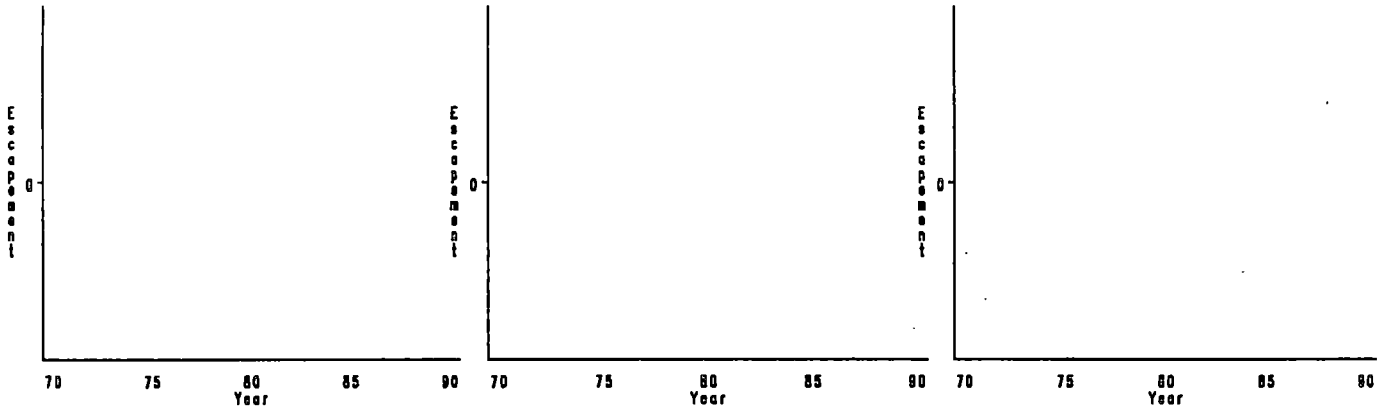
GOSNELL CREEK (46-5500-140-010)

Escapement & Run Timing

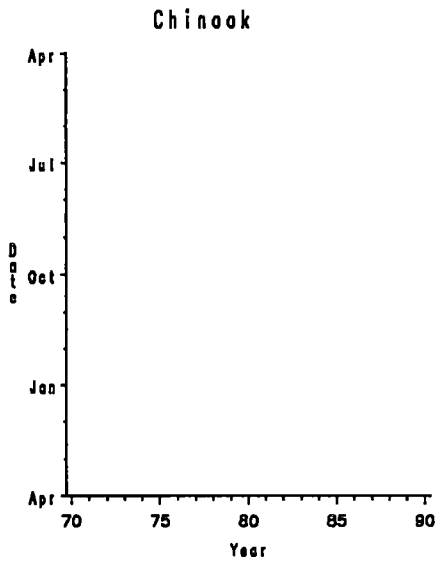
Chum (CM)

Chinook (CH)

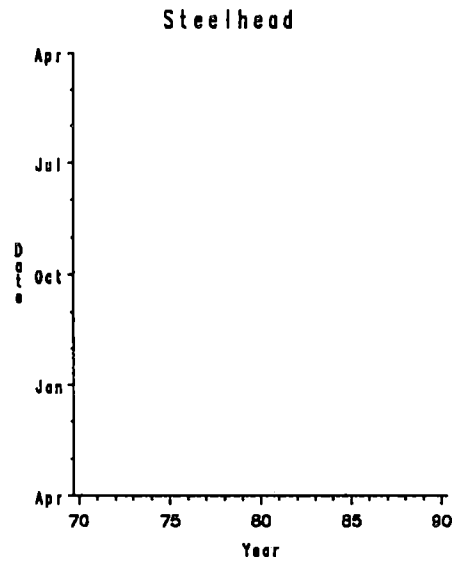
Steelhead (ST)



Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-



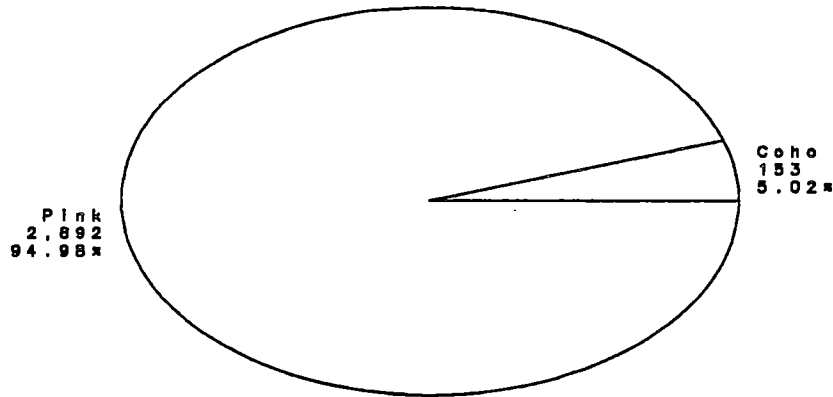
Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-



Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

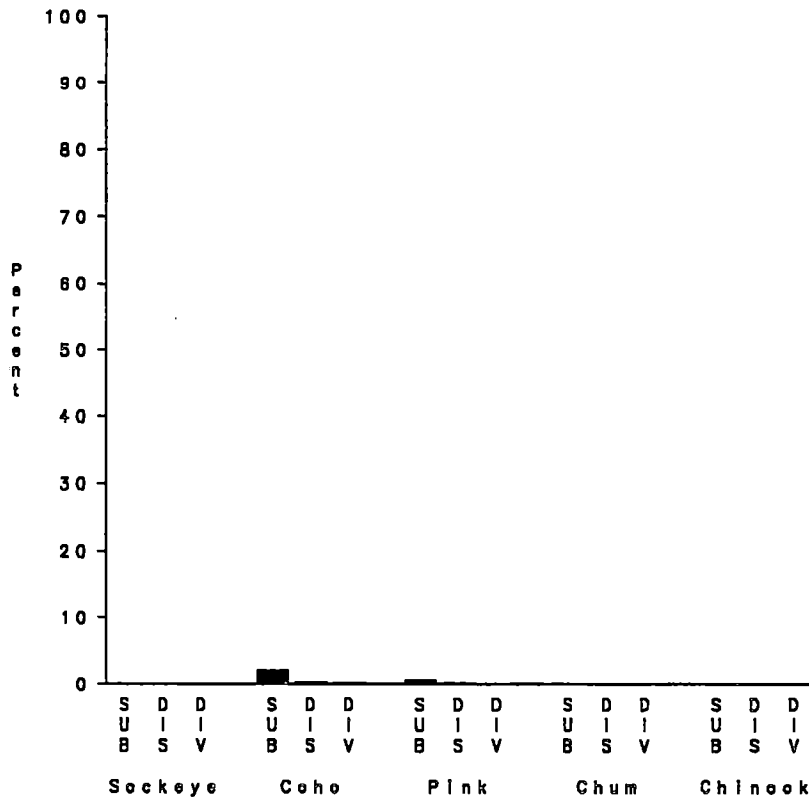
GOSNELL CREEK (46-5500-140-010)

10-yr Mean Escapement
(1980-1989)



GOSNELL CREEK : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/3
		B.C.G.S. (1:20k) Map: 9.6016.60093
		U.T.M. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NE INTO GOSNELL C., S OF HOLLAND LAKES.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 1.3 KM (REF. 40-107)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010-030	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/3
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5988.60092
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS N INTO GOSNELL C., DOWNSTREAM OF SHEA C. CONFLUENCE		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 1.3 KM (REF. 4D-132)
CT CUTTHROAT TROUT	OBSERVED AT 1.3 KM (REF. 4D-132)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: SHEA CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010-040	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/3
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5978.60095
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS S INTO GOSNELL C., N OF NANIKA MOUNTAIN		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
R ROCK	4.0	9.0	CO COHO SALMON ST STEELHEAD	IMPASSABLE FALLS. (REF. 4D-132)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: LAKE FED (REF. 6N-28)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 8.5 KM (REF. 4D-107, REF. 4D-132)
ST STEELHEAD	0 - 9.0 KM (TO FALLS) (REF. 4D-103)
CT CUTTHROAT TROUT	THROUGHOUT (REF. 4D-103, REF. 4D-132)
DV DOLLY VARDEN	OBSERVED AT 8.5 KM (REF. 4D-132)
MW ROCKY MTN WHITEFISH	OBSERVED IN SHEA LAKE (REF. 4D-132)
RB RAINBOW TROUT	OBSERVED AT 8.5 KM (REF. 4D-132)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
CO COLONIZATION	ST STEELHEAD	0.0	ABOVE AND BELOW FALLS. FRY RELEASES: 10000 IN 1983, 15000 IN 1984, 9500 IN 1985, 6476 IN 1986. (REF. 4D-102)	1983/1986

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010-060	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/4
		B.C.G.S. (1:20k) Map: 9.5926.60070
		U.T.M. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Lat./Long. Mouth: Ref. No.:
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NE INTO GOSNELL C., S OF SHEA LAKE		

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 2.3 KM (REF. 40-132)
CT CUTTHROAT TROUT	OBSERVED AT 2.3 KM (REF. 40-132)
DV DOLLY VARDEM	OBSERVED AT 2.3 KM (REF. 40-132)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010-065	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/4
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5882.60055
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS N AND W INTO GOSNELL C., SE OF HERD DOME		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: FED BY SMALL LAKE (REF. 6N-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 2.2 KM (REF. 4D-107)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-010-070	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/4
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5875.60054
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NE INTO GOSNELL C., SE OF HERD DOME		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: LAKE FED (REF. 6M-28)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHD SALMON	OBSERVED AT 2.0 KM (REF. 4D-107)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: GABRIEL CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-050	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/6
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6075.60210
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLWS SE INTO THAUTIL R., E OF BURNIE LAKES		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 3.5 KM (REF. 4D-106)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: STARR CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-140-070	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.C.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/SW
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6071.60287
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS SOUTHEAST INTO RIGHT BANK OF THAUTIL RIVER.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
ST STEELHEAD	OBSERVED APPROX. 2 KM FROM MOUTH. (REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/17
Checked by: TOM PENDRAY	Date: 1990/04/17
Last updated by: TOM PENDRAY	Date: 1991/02/22

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-170	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/3
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6030.59978
		Lat./Long. Mouth: 0 06. 0' 0'' 0 06. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows SE INTO MORICE R., JUST BELOW MORICE LAKE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 0.4 KM (REF. 4D-103)
ST STEELHEAD	OBSERVED SPAWNING AT 0.4 KM (REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/25

E. ESCAPEMENT SUMMARY CONTINUED

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		SEVERAL SITES MONITORED ANNUALLY FOR JUVENILE CO PRESENCE/DENSITY. (REF. 4D-163)	1987/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

CO DISTRIBUTION DEPENDS ON BEAVER DAM ACTIVITY FROM YEAR TO YEAR. (REF. 4D-140, REF. 4D-163)
CO POPULATION SERIOUSLY IMPEDED BY BEAVER DAMS. (REF. 4D-103)
DETAILED FISH POPULATION, TIMING AND HABITAT UTILIZATION DATA, WITH REFERENCE TO THE KEMANO II DEVELOPMENT AVAILABLE. (REF. 4D-66)
GOOD TO EXCELLENT REARING POTENTIAL THROUGHOUT LOWER SECTION OF STREAM. (REF. 4D-51)
HABITAT DESCRIPTION AVAILABLE (REF. 4D-59)
HABITAT DESCRIPTION AVAILABLE. GOOD SPawning GRAVEL, WELL SORTED. EXCELLENT REARING POTENTIAL TO MILE 47, GOOD SPawning POTENTIAL AT MILE 48 AND BELOW MCBRIDE LAKE. AT LEAST 10 BEAVER DAMS (2 M HIGH) BETWEEN OLD HATCHERY BRIDGE AND MILE 47 ON MORICE LAKE ROAD. (REF. 4D-64)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/25

A. DESCRIPTION

Stream Name: NANIKA RIVER	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-190	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/3
UNNAMED CREEK STEPP CREEK	020	B.C.G.S. (1:20k) Map:
	040	U.T.M. Mouth: 9.6003.59945
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NW INTO MORICE LAKE, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS	11.2	23.0	CH CHINOOK SALMON CO COHO SALMON PK PINK SALMON SK SOCKEYE SALMON ST STEELHEAD	AT ABOUT 0.4 KM BELOW KIDPRICE LAKE (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08ED001	No. 2:	No. 3:	No. 4:
Comments: LAKE SURVEY DATA FOR NANIKA, KIDPRICE, STEPP AND ANZAC LAKES AVAILABLE. (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	OBSERVED SPawning AT 21 KM (REF. 4D-22)
CO COHO SALMON	OBSERVED SPawning AT 21 KM (REF. 4D-22)
PK PINK SALMON	PRESENT (REF. 4D-158)
CH CHINOOK SALMON	0 - 23 KM (TO FALLS) (REF. 4D-103, REF. 4D-140)
ST STEELHEAD	OBSERVED SPawning AT 20 KM (REF. 4D-22)
CT CUTTHROAT TROUT	OBSERVED AT 18 KM (REF. 4D-22)
DV DOLLY VARDEN	THROUGHOUT (REF. 4D-22, REF. 4D-92, REF. 4D-103)
NW ROCKY Mtn WHITEFISH	OBSERVED AT 18 KM (REF. 4D-22)
RB RAINBOW TROUT	THROUGHOUT (REF. 4D-22, REF. 4D-92, REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
SK SOCKEYE SALMON	2700	1980 - 1989	28A-18	5600	28A-18	30000	4D-158
CO COHO SALMON	66	1980 - 1989	28A-18	500	4D-158	1000	4D-158
PK PINK SALMON		1981 - 1989		100	4D-158		
CH CHINOOK SALMON	107	1980 - 1989	28A-18	200	28A-18	200	4D-158

Comments: EVEN YEAR PINK, 100 FISH IN 1986 ONLY (REF. 28A-18)

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SK SOCKEYE SALMON	Migration Spawning Incubation Rearing								X X X	X X	X X		
CO COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	
CH CHINOOK SALMON	Migration Spawning Incubation Rearing								X X X	X X			

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
HC CHANNEL/HATCHERY	SK SOCKEYE SALMON	2.0	PILOT HATCHERY - DISCONTINUED (REF. 4D-52)	1960/1966

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DISCUSSION ON MANIKA R. - KIDPRICE L. OBSTRUCTION REMOVAL. (REF. 4D-52)
HABITAT DESCRIPTION AVAILABLE (REF. 4D-64)
HABITAT DESCRIPTION AVAILABLE. (REF. 4D-105)
IMPACTS ASSESSMENT DATA OF THE KEMANO II PROPOSAL AVAILABLE (REF. 4D-46)
KEMANO II IMPACTS ASSESSMENT DATA AVAILABLE (REF. 4D-80)
KEMANO II IMPACTS ASSESSMENT DATA AVAILABLE. (REF. 4D-76)
SALMON STUDIES DATA AVAILABLE (REF. 4D-82)
SK POPULATION DATA AND NATIVE FOOD FISHERY DATA AVAILBLE (REF. 4D-79)
SUITABLE SPawning GRAVEL ABOVE FALLS. INDIAN FOOD FISHERY. GOOD SPORT FISHERY. (REF. 4D-100)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /

Prepared By:

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO
Checked by: TOM PENDRAY
Last updated by: B MASON
Last checked by: T PENDRAY

Date: 1987/04/07
Date: 1987/01/30
Date: 1991/05/08
Date: 1991/05/08

ESCAPEMENT : NANIKA RIVER

WATERSHED-CODE : 46-5500-190

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	35000	N/O	0	0	0	UNK
1954	N/O	0	0	0	0	UNK
1955	4000	N/O	0	0	0	UNK
1956	6000	UNK	0	0	0	UNK
1957	400	N/O	0	0	0	UNK
1958	25	UNK	0	0	0	UNK
1959	750	25	0	0	75	UNK
1960	3500	0	0	0	200	UNK
1961	5000	0	0	0	0	UNK
1962	3000	500	0	0	0	UNK
1963	1000	400	0	0	0	UNK
1964	5000	500	0	0	0	UNK
1965	10000	300	0	0	0	UNK
1966	6000	300	0	0	150	UNK
1967	3400	300	0	0	200	UNK
1968	3000	200	0	0	100	UNK
1969	3300	300	0	0	UNK	UNK
1970	4700	300	0	0	UNK	UNK
1971	3300	300	0	0	25	UNK
1972	1800	200	0	0	400	UNK
1973	1000	UNK	0	0	UNK	UNK
1974	1200	UNK	0	0	UNK	UNK
1975	225	0	0	0	50	UNK
1976	100	UNK	0	0	120	UNK
1977	600	N/O	0	0	25	UNK
1978	500	0	0	0	50	UNK
1979	700	0	0	0	75	UNK
1980	400	N/O	0	0	75	UNK
1981	1000	500	0	0	40	UNK
1982	3000	N/O	0	0	150	UNK
1983	4000	0	0	0	100	UNK
1984	3000	100	0	0	100	UNK
1985	2000	0	0	0	100	UNK
1986	3000	UNK	100	UNK	100	UNK
1987	4000	0	0	0	200	UNK
1988	1000	0	0	0	50	UNK
1989	5600	N/O	N/O	UNK	150	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

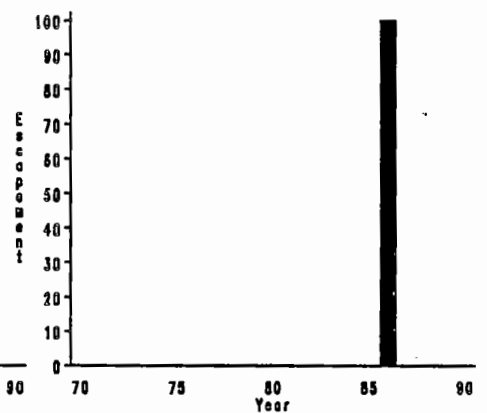
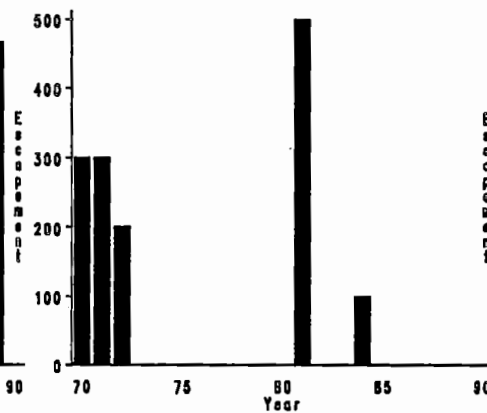
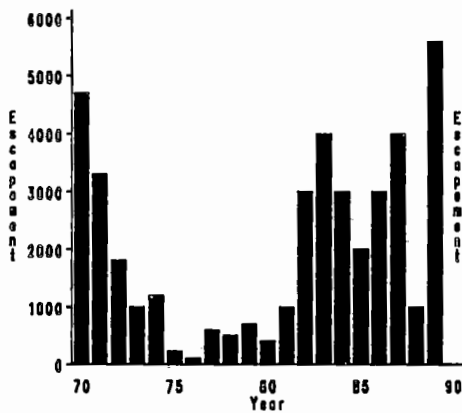
NANIKA RIVER (46-5500-190)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

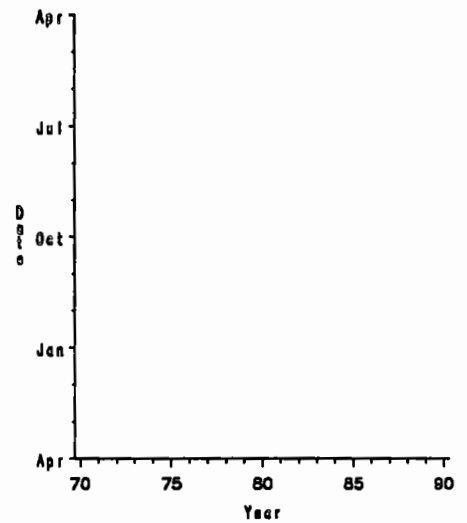
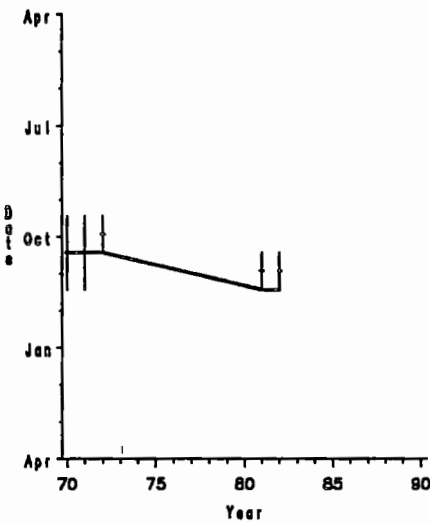
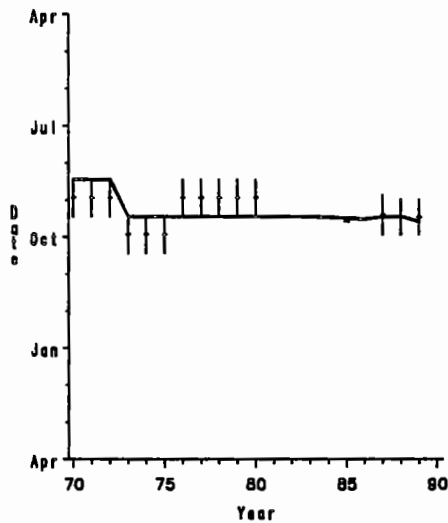
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	4,700	15AUG	15AUG	15SEP
1971	3,300	15AUG	15AUG	15SEP
1972	1,800	15AUG	15AUG	15SEP
1973	1,000	15SEP	15SEP	15OCT
1974	1,200	15SEP	15SEP	15OCT
1975	225	15SEP	15SEP	15OCT
1976	100	15AUG	15SEP	15SEP
1977	600	15AUG	15SEP	15SEP
1978	500	15AUG	15SEP	15SEP
1979	700	15AUG	15SEP	15SEP
1980	400	15AUG	15SEP	15SEP
1981	1,600	15SEP	15SEP	15SEP
1982	3,000	15SEP	15SEP	15SEP
1983	4,000	15SEP	15SEP	15SEP
1984	3,000	-	-	-
1985	2,000	-	-	18SEP
1986	3,000	-	-	17SEP
1987	4,000	28AUG	15SEP	30SEP
1988	1,000	01SEP	15SEP	30SEP
1989	5,600	01SEP	18SEP	30SEP

Coho				
Year	Escapement	Start	Peak	End
1970	300	15SEP	15OCT	15NOV
1971	300	15SEP	15OCT	15NOV
1972	200	15SEP	15OCT	15OCT
1973	-	-	-	-
1974	-	-	-	-
1975	0	-	-	-
1976	-	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	500	15OCT	15NOV	15NOV
1982	0	15OCT	15NOV	15NOV
1983	0	-	-	-
1984	100	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	100	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-

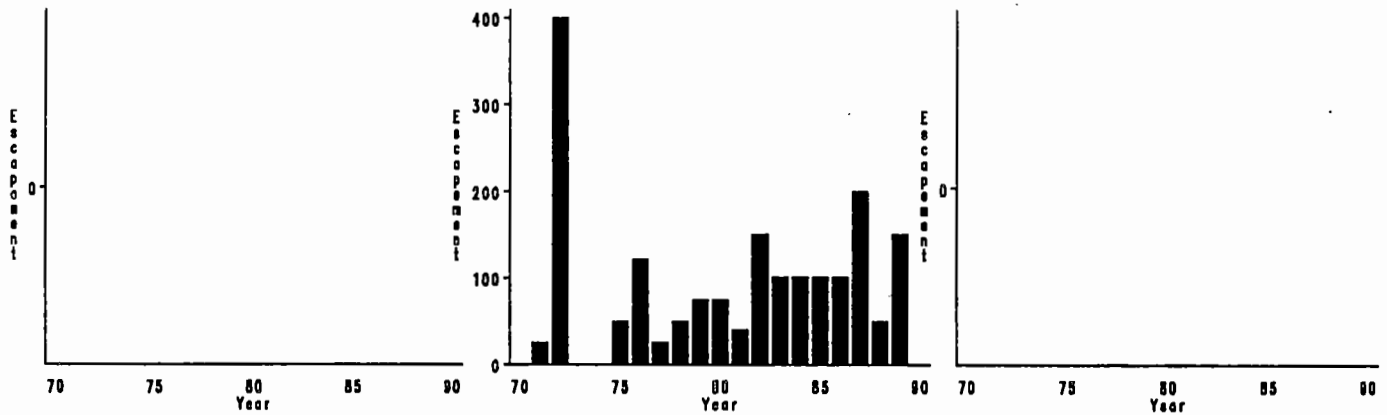
NANIKA RIVER (46-5500-190)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

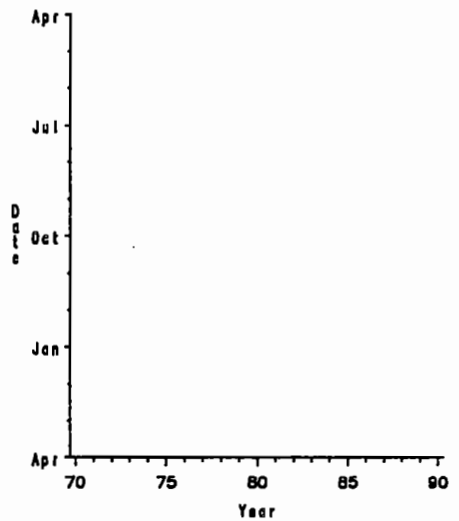
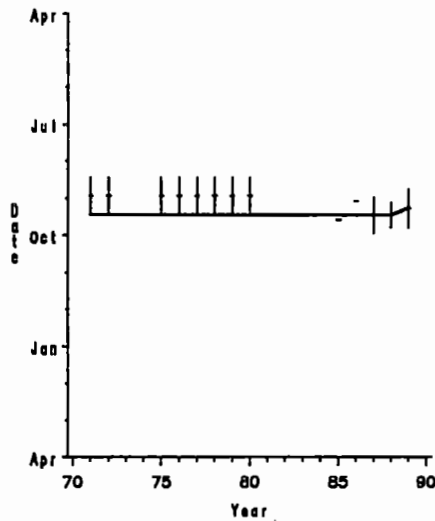
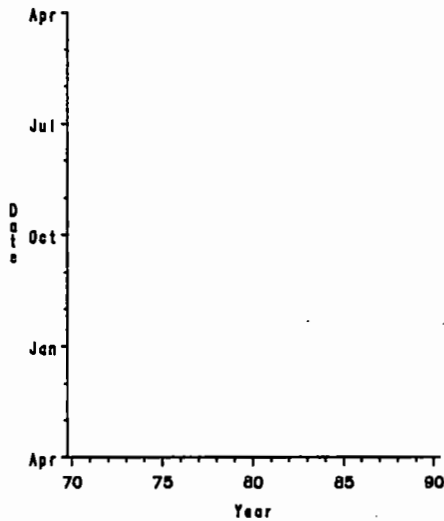
Steelhead (ST)



Chum

Chinook

Steelhead



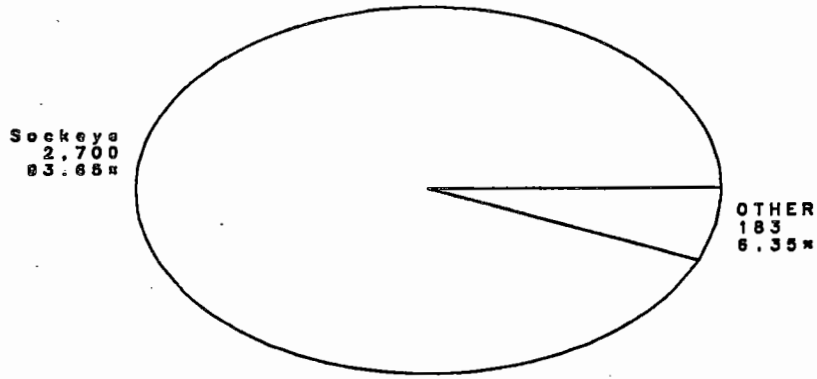
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	25	15AUG	15SEP	15SEP
1972	400	15AUG	15SEP	15SEP
1973	-	-	-	-
1974	-	-	-	-
1975	50	15AUG	15SEP	15SEP
1976	120	15AUG	15SEP	15SEP
1977	25	15AUG	15SEP	15SEP
1978	50	15AUG	15SEP	15SEP
1979	75	15AUG	15SEP	15SEP
1980	75	15AUG	15SEP	15SEP
1981	40	15SEP	15SEP	15SEP
1982	150	15SEP	15SEP	15SEP
1983	100	15SEP	15SEP	15SEP
1984	100	-	-	-
1985	100	-	-	10SEP
1986	100	04SEP	-	-
1987	200	01SEP	15SEP	30SEP
1988	50	05SEP	15SEP	25SEP
1989	150	25AUG	08SEP	25SEP

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

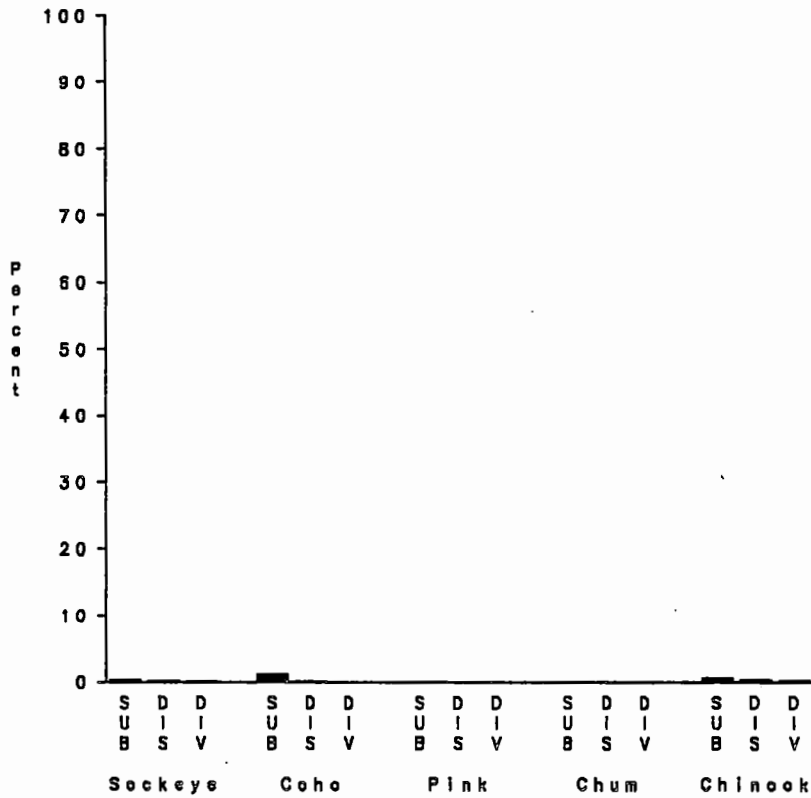
NANIKA RIVER (46-5500-190)

10-yr Mean Escapement
(1980-1989)



NANIKA RIVER : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-190-020	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/3
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6005.59865
		Lat./Long. Mouth: 0 06. 0' 0'' 0 06. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NE INTO NANIKA R., W OF LAMPREY LAKE		

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: LAKE FED (REF. 6N-28)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 0.6 KM (REF. 4D-103)
CH CHINOOK SALMON	OBSERVED AT 0.6 KM (REF. 4D-103)
RB RAINBOW TROUT	OBSERVED AT 0.6 KM (REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/25

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/17
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A. DESCRIPTION

Stream Name: BERGELAND CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-190-040-080	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93E/14
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5987.59699
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NORHTWEST INTO RIGHT BANK OF HANIKA RIVER.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
DV DOLLY VARDEN	OBSERVED AT APPROX. 7 KM UPSTREAM FROM MOUTH. (REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/17
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A. DESCRIPTION

Stream Name: ATNA RIVER	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-240	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/4
UNNAMED CREEK	100	B.C.G.S. (1:20k) Map:
UNNAMED CREEK	110	U.T.M. Mouth: 9.5825.59854
UNNAMED CREEK	300	Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NE INTO ATNA LAKE, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS		1.0	SK SOCKEYE SALMON	IMPASSABLE FALLS DURING LOW FLOWS (REF. 4D-51)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: LAKE FED. LAKE SURVEY DATA FOR ATNA LAKE AVAILABLE (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	OBSERVED SPAWNING AT 12 KM (REF. 4D-148)
CO COHO SALMON	OBSERVED AT 16 KM (REF. 4D-66)
CH CHINOOK SALMON	OBSERVED BELOW FALLS (AT 0.7 KM) (REF. 4D-140)
DV DOLLY VARDEN	OBSERVED IN ATNA LAKE (REF. 4D-92)
LT LAKE TROUT	IN ATNA LAKE. (REF. 4D-92)
NW ROCKY MTN WHITEFISH	OBSERVED IN ATNA LAKE (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
SK SOCKEYE SALMON	92	1980 - 1989	28A-18	300	4D-158	500	4D-158
CO COHO SALMON		-				300	4D-158
Comments: SOCKEYE OBSERVED IN 1980 (250) AND 1981 (300) ONLY (REF. 28A-18)							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SK SOCKEYE SALMON	Migration Spawning Incubation Rearing								X X X	X X	X X		

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
OR BARRIER REMOVAL	SK SOCKEYE SALMON	1.0	RAPIDS BLASTED (REF. 40-103)	/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED FISH POPULATION, TIMING AND HABITAT UTILIZATION DATA, WITH REFERENCE TO THE KEMANO II DEVELOPMENT AVAILABLE. (REF. 40-66)
HABITAT DESCRIPTION AVAILABLE (REF. 40-59)
HABITAT DESCRIPTION AVAILABLE (REF. 40-64)
HEAVY GLACIAL SILT LOAD. (REF. 40-100)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: B MASON	Date: 1991/05/09
Last checked by: T PENDRAY	Date: 1991/05/09

ESCAPEMENT : ATNA LAKE

WATERSHED-CODE : 46-5500-240

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	UNK	UNK	UNK	UNK	UNK	UNK
1954	UNK	UNK	UNK	UNK	UNK	UNK
1955	UNK	UNK	UNK	UNK	UNK	UNK
1956	UNK	UNK	UNK	UNK	UNK	UNK
1957	UNK	UNK	UNK	UNK	UNK	UNK
1958	UNK	UNK	UNK	UNK	UNK	UNK
1959	UNK	UNK	UNK	UNK	UNK	UNK
1960	UNK	UNK	UNK	UNK	UNK	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	UNK	UNK	UNK	UNK	UNK	UNK
1963	500	UNK	UNK	UNK	UNK	UNK
1964	500	UNK	UNK	UNK	UNK	UNK
1965	500	0	0	0	0	UNK
1966	500	0	0	0	0	UNK
1967	500	0	0	0	0	UNK
1968	500	0	0	0	0	UNK
1969	UNK	0	0	0	0	UNK
1970	N/O	0	0	0	0	UNK
1971	UNK	0	0	0	0	UNK
1972	UNK	0	0	0	0	UNK
1973	200	0	0	0	0	UNK
1974	UNK	0	0	0	0	UNK
1975	UNK	0	0	0	0	UNK
1976	UNK	0	0	0	0	UNK
1977	N/O	N/O	0	0	0	UNK
1978	200	N/O	0	0	0	UNK
1979	350	0	0	0	0	UNK
1980	250	N/O	0	0	0	UNK
1981	300	0	0	0	0	UNK
1982	UNK	UNK	UNK	UNK	UNK	UNK
1983	UNK	UNK	UNK	UNK	UNK	UNK
1984	0	0	0	0	0	UNK
1985	2	0	0	0	0	UNK
1986	0	UNK	UNK	UNK	UNK	UNK
1987	UNK	0	0	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

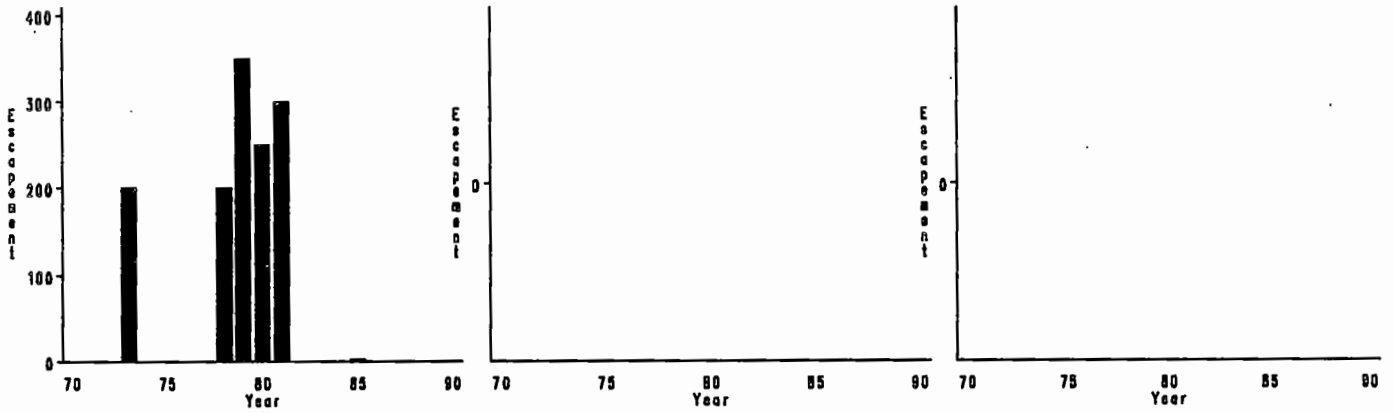
ATNA LAKE (46-5500-240)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

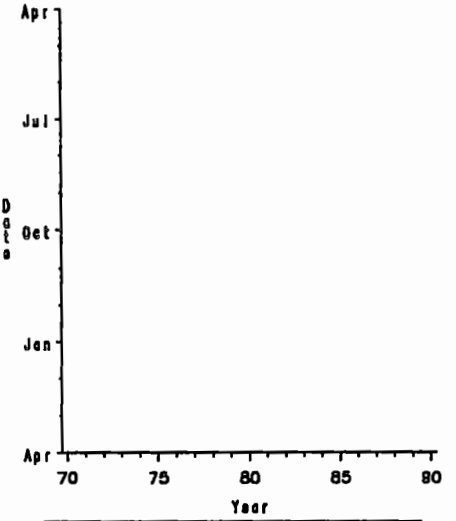
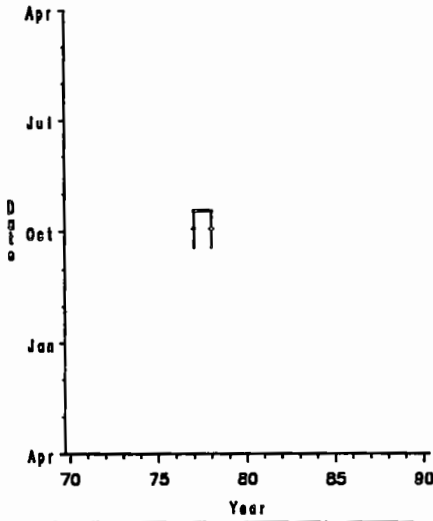
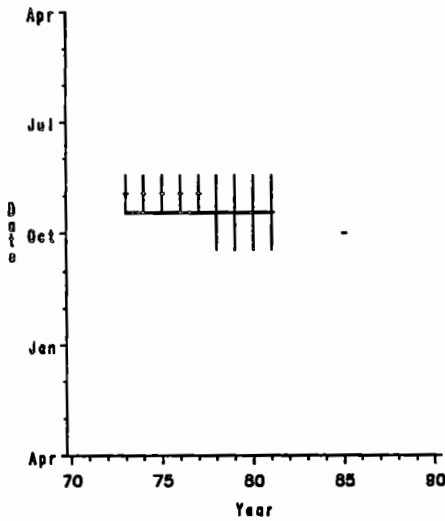
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	200	15AUG	15SEP	15SEP
1974	-	15AUG	15SEP	15SEP
1975	-	15AUG	15SEP	15SEP
1976	-	15AUG	15SEP	15SEP
1977	0	15AUG	15SEP	15SEP
1978	200	15AUG	15SEP	15OCT
1979	350	15AUG	15SEP	15OCT
1980	250	15AUG	15SEP	15OCT
1981	300	15AUG	15SEP	15OCT
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	2	-	-	02OCT
1986	0	-	-	-
1987	-	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	15SEP	15SEP	15OCT
1978	0	15SEP	15SEP	15OCT
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

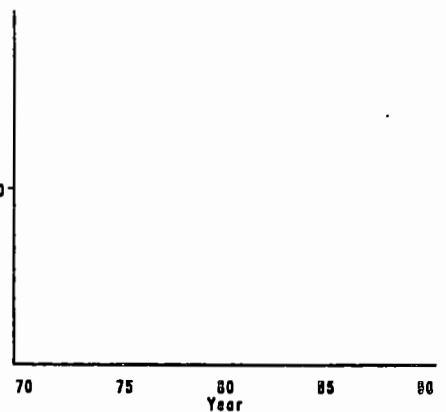
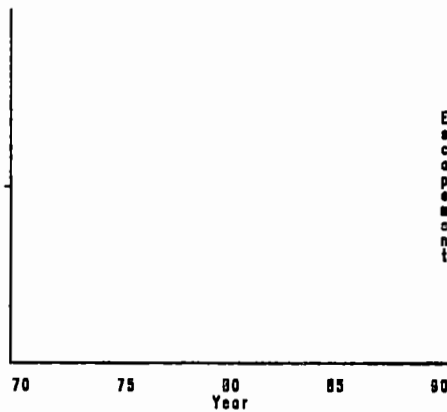
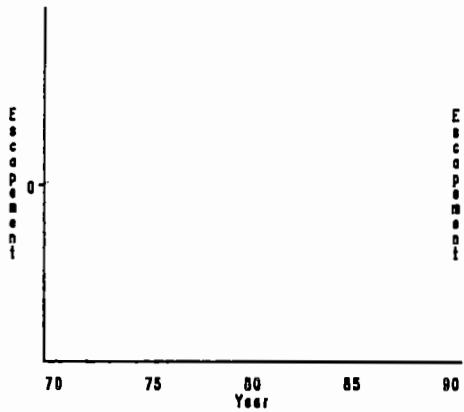
ATNA LAKE (46-5500-240)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

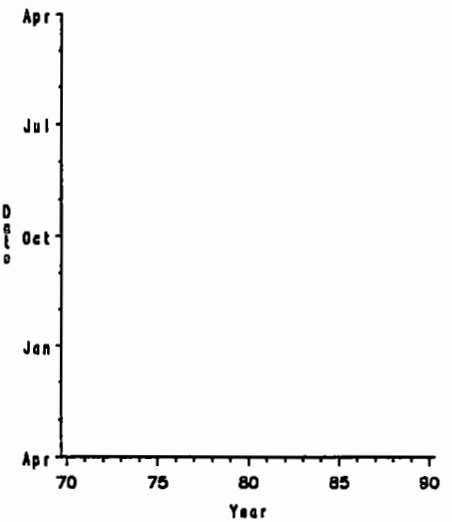
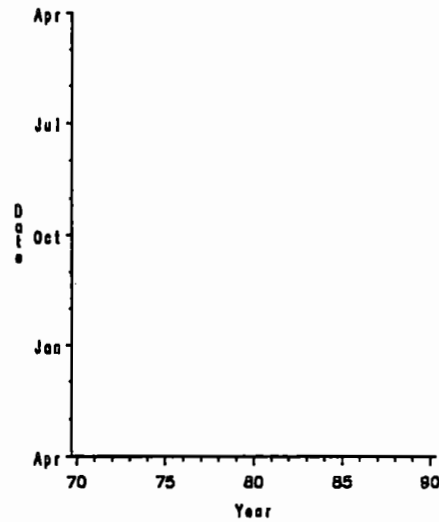
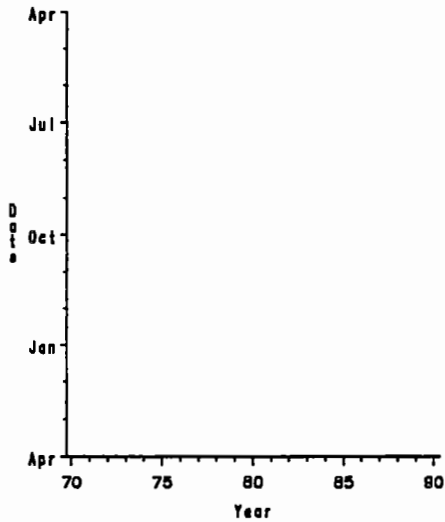
Steelhead (ST)



Chum

Chinook

Steelhead



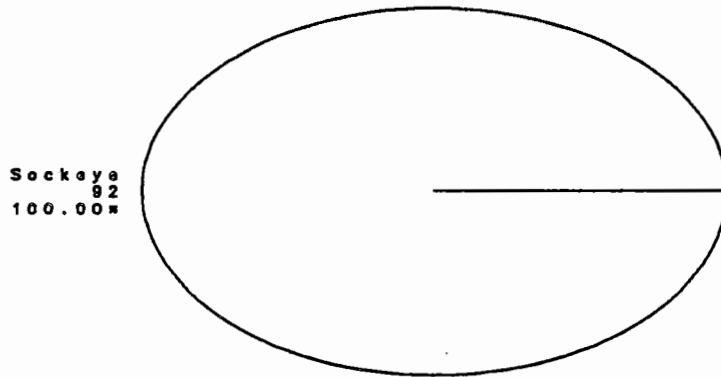
Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

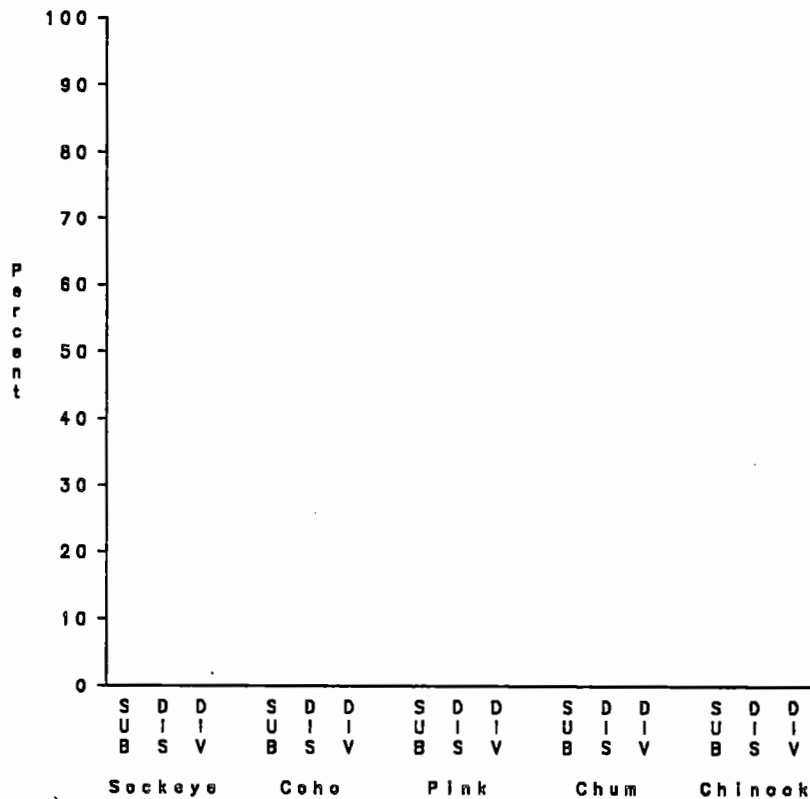
ATNA LAKE (46-5500-240)

10-yr Mean Escapement
(1980-1989)



ATNA LAKE : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-240-100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/4
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5765.59858
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
		Location: FLOWS NW INTO ATNA R., JUST UPSTREAM OF ATNA LAKE

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHD SALMON	OBSERVED AT 0.2 KM (REF. 4D-66)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/25

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-240-110	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/4
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5763.59855
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows NE INTO ATNA R., S OF CORONA PEAK		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 0.3 KM (REF. 4D-66)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/25

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5500-240-300	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93E/13
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.5715.59828
		Lat./Long. Mouth: 0 DG. 0' 0" 0 DG. 0' 0"
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS E INTO ATNA R.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 0.2 KM (REF. 40-66)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
----------------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GIRA TINGSTAD	Date: 1991/02/25

A. DESCRIPTION

Stream Name: BUCK CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-5600	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/7
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6521.60292
		Lat./Long. Mouth: 0 06. 0' 0'' 0 06. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows N INTO BULKLEY R. AT HOUSTON.		

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
C CASCADE		5.0		PASSABLE WITH GOOD WATER LEVELS (REF. 4D-100)
F FALLS		9.8		SUSPECT IMPASSABLE TO COHO AND CHINOOK. (REF. 4D-100)

C. FLOW

Flow Control: W.S.C. Station No. 1: 08EE013	Water Survey of Canada (WSC) Flow Gauge: Y No. 2:	No. 3:	No. 4:
Comments: ESTIMATED DISCHARGE AUG. 30 0 SEP. 3, 1981: 0.46 C.M.S. (REF. 4D-26)			
LAKE FED. LAKE SURVEY DATA FOR GOOSLY LAKE AVAILABLE (REF. 4D-92)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OBSERVED AT 2.0 KM. REPORTED PRESENT TO DUNGATE C. (REF. 4D-26, REF. 4D-100, REF. 4D-163)
PK PINK SALMON	PRESENT SPORADICALLY NEAR MOUTH. (REF. 4D-100, REF. 4D-158)
CH CHINOOK SALMON	JUVENILES PRESENT IN LOWER REACHES. PROBABLY SOME SPAWNERS. (REF. 4D-26, REF. 4D-100, REF. 4D-163)
ST STEELHEAD	PRESENT TO AT LEAST 10 KM. (REF. 4D-26, REF. 4D-102)
KD KOKanee	IN GOOSLY LAKE (REF. 4D-92)
NW ROCKY MTN WHITEFISH	OBSERVED IN GOOSLY LAKE (REF. 4D-92)
RB RAINBOW TROUT	SPAWNING AT 5.0 KM ABOVE GOOSLY LAKE (REF. 4D-92, REF. 4D-103)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON		1982 - 1989	28A-18	50	4D-158	500	4D-158
PK PINK SALMON		-				50	4D-158
CH CHINOOK SALMON	11	1982 - 1989	28A-18	50	28A-18	50	4D-158

Comments: CO OBSERVED IN 1982 ONLY. (REF. 28A-18)

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing									X X	X X	X X	
CH CHINOOK SALMON	Migration Spawning Incubation Rearing								X X	X X			

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		ONE SITE MONITORED ANNUALLY FOR JUVENILE CO PRESENCE/DENSITY. (REF. 4D-163)	1988/
FS FISH SAMPLING			TWO SITES IN UPPER REACHES MONITORED ANNUALLY FOR RB/ST DENSITIES - FOR EQUITY SILVER. (REF. 4D-103)	1984/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
MI MINING	HEADWATERS AREA - EQUITY SILVER MINES LTD. (REF. 4D-29)

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

A MAJOR ACID SPILL (108 METRIC TONS OF SULPHURIC ACID) OCCURRED AT EQUITY SILVER MINES IN THE HEADWATERS, IN NOVEMBER 1981. THIS WAS CONSIDERED A MAJOR EVENT IN A CONTINUING PROBLEM OF ACID MINE DRAINAGE. (REF. 4D-29)
CH UTILIZATION OF CREEK AT HOUSTON. (REF. 4D-58)
DETAILED HABITAT DESCRIPTION AND ST POPULATION DATA AVAILABLE. (REF. 4D-26)
EQUITY MINES LTD. DEVELOPMENT IMPACTS DATA AVAILABLE. (REF. 4D-78)
EROSION, SILTING AND SCOURING IN LOWER RIVER. SILT FROM MINING ROAD AFFECTING 10% OF RIVER BELOW DUNGATE. (REF. 4D-100)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30

ESCAPEMENT : BUCK CREEK

WATERSHED-CODE : 46-5600

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	300	0	0	0	UNK
1954	UNK	UNK	UNK	UNK	UNK	UNK
1955	0	60	0	0	0	UNK
1956	0	75	0	0	0	UNK
1957	0	75	0	0	0	UNK
1958	0	200	0	0	0	UNK
1959	0	200	0	0	0	UNK
1960	0	200	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	0	500	0	0	0	UNK
1963	0	400	0	0	0	UNK
1964	0	600	0	0	0	UNK
1965	0	200	0	0	0	UNK
1966	0	200	0	0	0	UNK
1967	0	200	100	0	0	UNK
1968	0	200	0	0	0	UNK
1969	0	300	N/O	0	0	UNK
1970	0	300	0	0	50	UNK
1971	0	300	0	0	N/O	UNK
1972	N/O	0	0	0	25	UNK
1973	0	N/O	N/O	0	N/O	UNK
1974	0	N/O	N/O	0	N/O	UNK
1975	0	150	N/O	0	N/O	UNK
1976	0	200	UNK	0	UNK	UNK
1977	0	250	N/O	0	N/O	UNK
1978	0	200	N/O	0	N/O	UNK
1979	0	0	0	0	0	UNK
1980	0	N/O	N/O	0	N/O	UNK
1981	N/O	0	0	0	0	UNK
1982	0	50	0	0	12	UNK
1983	0	N/O	0	0	N/O	UNK
1984	UNK	UNK	UNK	UNK	UNK	UNK
1985	UNK	UNK	UNK	UNK	25	UNK
1986	0	UNK	UNK	UNK	UNK	UNK
1987	0	0	0	0	N/O	UNK
1988	0	N/O	0	0	50	UNK
1989	0	N/O	N/O	0	N/O	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

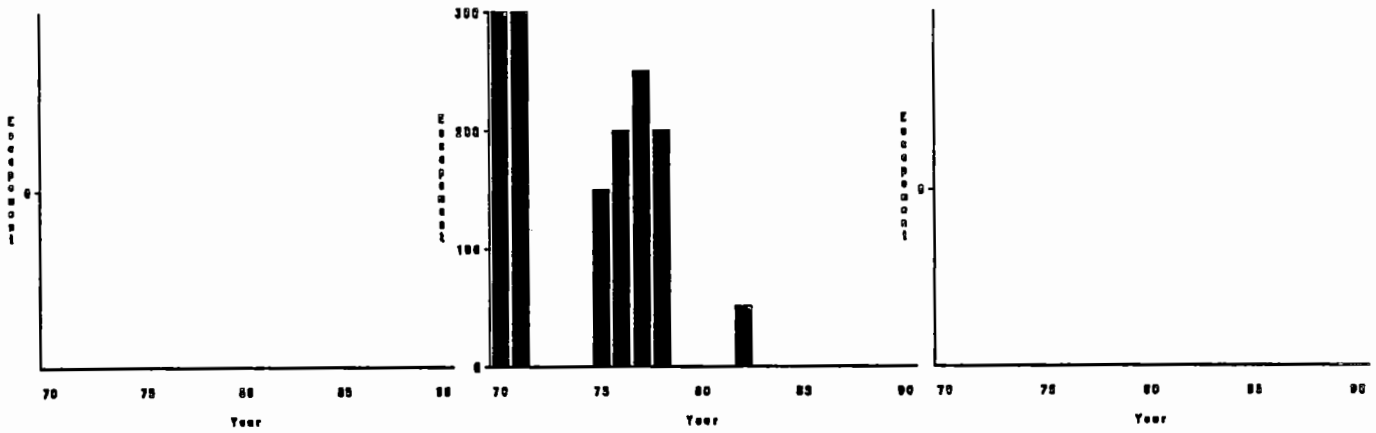
BUCK CREEK (46-5600)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

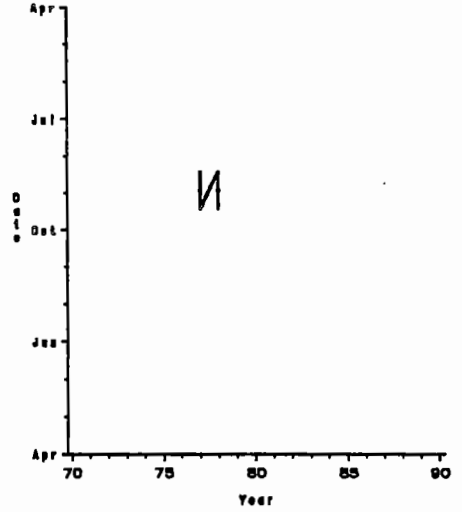
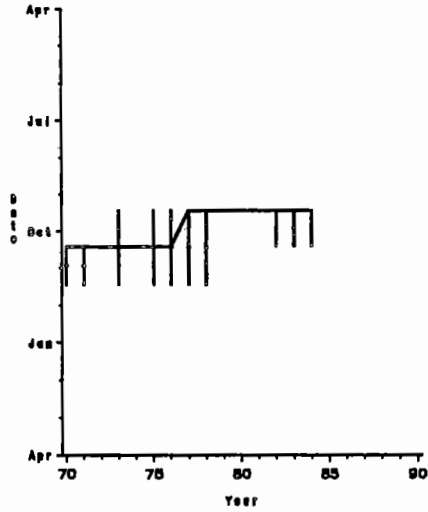
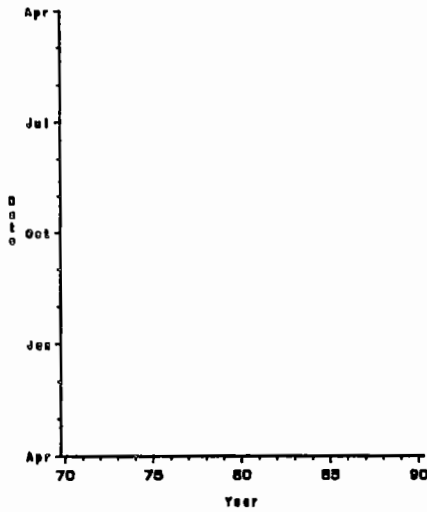
Pink (PK)



Sockeye

Coho

Pink



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	0	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-
1990	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	300	19OCT	19OCT	19NOV
1971	200	19OCT	19OCT	19NOV
1972	0	-	-	-
1973	0	19SEP	19OCT	19NOV
1974	0	-	-	-
1975	190	19SEP	19OCT	19NOV
1976	200	19SEP	19OCT	19NOV
1977	200	19SEP	19OCT	19NOV
1978	200	19SEP	19OCT	19NOV
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	30	19SEP	19OCT	19OCT
1983	0	19SEP	19OCT	19OCT
1984	-	19SEP	19OCT	19OCT
1985	-	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-
1990	0	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	-	-	-	-
1977	0	19AUG	19SEP	19SEP
1978	0	19AUG	19AUG	19SEP
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	0	-	-	-
1990	0	-	-	-

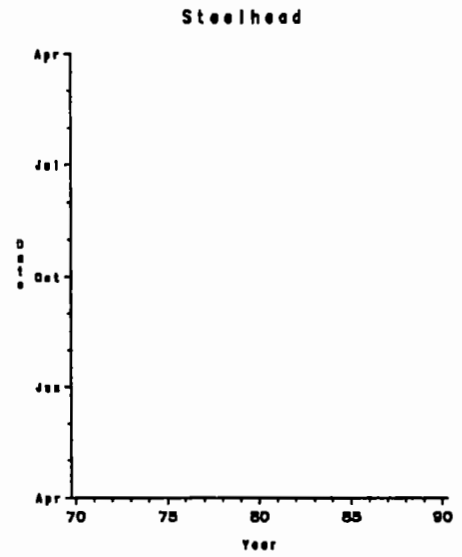
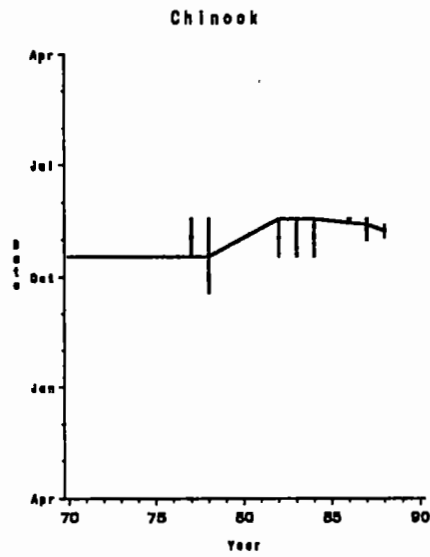
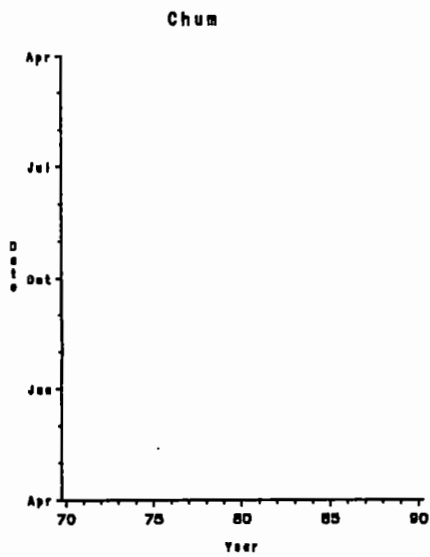
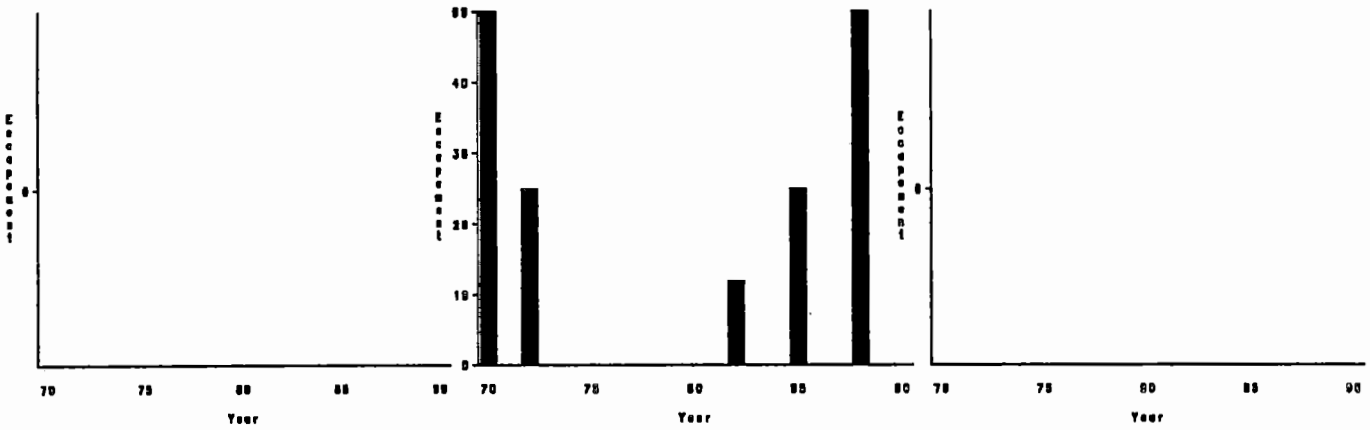
BUCK CREEK (46-5600)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

Steelhead (ST)



Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-
1990	-	-	-	-

Chinook				
Year	Escapement	Start	Peak	End
1970	50	15SEP	15SEP	10SEP
1971	0	-	-	-
1972	25	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	-	-	-	-
1977	0	15AUG	15SEP	10SEP
1978	0	15AUG	15SEP	10OCT
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	50	15AUG	15AUG	10SEP
1983	0	15AUG	15AUG	10SEP
1984	-	15AUG	15AUG	10SEP
1985	-	-	-	-
1986	25	-	-	-
1987	-	15AUG	-	-
1988	0	15AUG	20AUG	01SEP
1989	50	20AUG	20AUG	20AUG
1990	0	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-
1990	-	-	-	-

A. DESCRIPTION

Stream Name: BARREN CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-6010	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/8 B.C.G.S. (1:20k) Map: U.T.M. Mouth: Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' ' Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
		Location: FLOWS SOUTHEAST INTO RIGHT BANK OF BULKLEY RIVER.

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
NO INFORMATION AVAILABLE	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
RB RAINBOW TROUT	PRESENT AT HIGHWAY CROSSING. (REF. 4D-163)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/23
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A. DESCRIPTION

Stream Name: MCQUARRIE CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-6100	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 8

Tributaries	Code	Topographic (1:50k) Map: 93L/9
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6644.60434
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
		Location: FLOWS SE INTO RIGHT BANK OF BULKLEY RIVER, JUST DOWNSTREAM FROM PEROW.

Gradient Class/Location (km upstream from mouth)					Comments
0 - .5%	.5 - 2%	2 - 5%	5 - 10%	>10%	
NO INFORMATION AVAILABLE					

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1:	No. 2: No. 3: No. 4:
Comments: ESTIMATED DISCHARGE AUG. 30 - SEP. 3, 1981: 0.075 C.M.S. (REF. 4D-26)	
LAKE FED. LAKE SURVEY DATA FOR MCQUARRIE LAKE AVAILABLE (REF. 4D-92)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	JUVENILES PRESENT IN LOWER REACHES. LOCAL RESIDENTS REPORT CO SPAWNERS IN SOME YEARS. (REF. 4D-26, REF. 4D-163)
ST STEELHEAD	0 - 12 KM (REF. 4D-102)
RB RAINBOW TROUT	IN MCQUARRIE LAKE (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED HABITAT DESCRIPTION AND ST POPULATION DATA AVAILABLE. IMPORTANT ST SPawning AND REARING SYSTEM. (REF. 40-26)
 LARGE AREA OF SPRING-FED PONDS OCCURS NEAR THE MOUTH OF MCQUARRIE CREEK. THIS AREA HAS BEEN USED FOR SMALL SCALE COHO OUTPLANTING AND IS BEING INVESTIGATED FOR FURTHER ENHANCEMENT. (REF. 4A-159)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO Date: 1987/04/07
 Checked by: TOM PENDRAY Date: 1987/01/30
 Last checked by: T. PERDRAY Date: 1991/02/26

A. DESCRIPTION

Stream Name: BYMAN CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-6200	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/9
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6656.60436
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows S INTO BULKLEY R. AT PEROM, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
Comments: ESTIMATED DISCHARGE AUG. 30 - SEP. 30, 1981: 0.034 C.M.S. (REF. 4D-26)			
EXTREME LOW FLOW PROBLEMS IN DRY YEARS. (REF. 4A-159)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	PRESENT. JUVENILES FOUND TO HIGHWAY CROSSING. (REF. 4D-26, REF. 4D-163)
CH CHINOOK SALMON	PRESENT. JUVENILES FOUND TO HIGHWAY CROSSING. (REF. 4D-163)
ST STEELHEAD	PRESENT. JUVENILES FOUND TO HIGHWAY CROSSING. (REF. 4D-163)
RB RAINBOW TROUT	PRESENT. (REF. 4D-163)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		THIS SYSTEM MONITORED ANNUALLY FOR JUVENILE CO DENSITIES. (REF. 4D-163)	1987/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED HABITAT DESCRIPTION AND ST POPULATION DATA AVAILABLE. (REF. 4D-26)
HABITAT DESCRIPTION AND CO POPULATION DATA AVAILABLE. THE LOWER 1.0 KM HAS GOOD CO REARING HABITAT, BUT MAY HAVE LOW FLOW PROBLEMS IN DRY YEARS. (REF. 4D-163)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	GINA TINGSTAD	Date:	1991/02/25

A. DESCRIPTION

Stream Name: RICHFIELD CREEK	D.F.O. Division: NORTH COAST
Local Name: FINDLEY CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-6400	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/9
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6721.60430
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows S INTO BULKLEY R., W OF TOPLEY, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
F FALLS	18.2	4.8	AF ALL SPECIES	PASSABLE AT HIGH WATER LEVELS (REF. 4D-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE009	No. 2:	No. 3:	No. 4:
Comments: ESTIMATED DISCHARGE AUG. 30 - SEP. 3, 1981: 0.20 C.M.S. (REF. 4D-26)			
LAKE FED. LAKE SURVEY DATA AVAILABLE FOR NEZ LAKE. (REF. 4D-92)			
STREAM DRY IN 1961. LOW FLOW PROBLEMS LIMIT PRODUCTION. (REF. 4A-159, REF. 4D-100)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	PRESENT (REF. 4D-26, REF. 4D-100)
CH CHINOOK SALMON	PRESENCE BY HISTORICAL REFERENCE ONLY. (REF. 4D-100)
ST STEELHEAD	PRESENT IN LOWER PORTION. (REF. 4D-26)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
CO COHO SALMON		-				250	4D-158
CH CHINOOK SALMON		-				100	4D-158

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CO COHO SALMON	Migration Spawning Incubation Rearing									X X	X X	X X	X X
CH CHINOOK SALMON	Migration Spawning Incubation Rearing								X X	X X	X X		

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

DETAILED HABITAT DESCRIPTION AND ST POPULATION DATA AVAILABLE (REF. 4D-26)
LOW FLOWS LIMIT PRODUCTION MOST YEARS. (REF. 4A-159)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
--------------------	--------------

K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last updated by: GINA TINGSTAD	Date: 1991/02/25
Last checked by: T. PENDRAY	Date: 1991/02/22

ESCAPEMENT : RICHFIELD CREEK

WATERSHED-CODE : 46-6400

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	0	100	0	0	N/O	UNK
1954	0	UNK	0	0	0	UNK
1955	0	15	0	0	25	UNK
1956	0	75	0	0	N/O	UNK
1957	0	N/O	0	0	N/O	UNK
1958	0	75	0	0	N/O	UNK
1959	0	N/O	0	0	N/O	UNK
1960	0	75	0	0	0	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	0	50	0	0	0	UNK
1963	0	300	0	0	30	UNK
1964	0	50	0	0	100	UNK
1965	N/O	0	0	0	N/O	UNK
1966	0	100	0	0	0	UNK
1967	0	N/O	0	0	0	UNK
1968	N/O	0	0	0	0	UNK
1969	0	100	0	0	0	UNK
1970	UNK	UNK	UNK	UNK	UNK	UNK
1971	0	N/O	0	0	0	UNK
1972	0	150	0	0	0	UNK
1973	0	UNK	0	0	0	UNK
1974	0	N/O	0	0	0	UNK
1975	0	UNK	0	0	0	UNK
1976	0	25	0	0	0	UNK
1977	0	200	0	0	0	UNK
1978	0	250	0	0	0	UNK
1979	N/O	N/O	0	0	0	UNK
1980	N/O	N/O	0	0	0	UNK
1981	0	UNK	0	0	0	UNK
1982	UNK	UNK	UNK	UNK	UNK	UNK
1983	0	0	UNK	0	UNK	UNK
1984	0	0	0	0	0	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	0	0	0	UNK
1987	0	UNK	0	0	0	UNK
1988	0	0	0	0	0	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

A. DESCRIPTION

Stream Name: CESFORD CREEK Local Name: Watershed Code: 46-6500	D.F.O. Division: NORTH COAST District: 8 PRINCE RUPERT Subdistrict: 40 SMITHERS Statistical Subarea: - M.O.E. Region: 6 SKEENA Management Unit:
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Tributaries	Code	Topographic (1:50k) Map: 93L/9 B.C.G.S. (1:20k) Map: U.T.M. Mouth: 9.6740.60430 Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' ' Mainstem Length: Ref. No.: Watershed Area: Ref. No.:
Location: FLOWS SW INTO RIGHT BANK BULKLEY RIVER AT TOPLEY.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control: W.S.C. Station No. 1:	Water Survey of Canada (WSC) Flow Gauge: No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
RB RAINBOW TROUT	PRESENT AT ROAD CROSSING. (REF. 4D-164)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

LOW SUMMER FLOWS LIMIT PRODUCTION. (REF. 4A-159)
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J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: TOM PENDRAY	Date: 1991/02/25
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A. DESCRIPTION

Stream Name: WATSON CREEK	D.F.O. Division: NORTH COAST
Local Name: AILPORT CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-6600	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 08

Tributaries	Code	Topographic (1:50k) Map: 93L/8
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6778.60401
		Lat./Long. Mouth: DG. ' ' DG. ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows WEST INTO RIGHT BANK OF BULKLEY R., EAST OF TOPLEY. NOTE: AILPORT C. IS THE MAINSTEM. THIS IS AN INACCURACY IN RAB WATERSHED CODE DICTIONARY.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CD COHO SALMON	JUVENILES PRESENT TO AT LEAST 2 KM (REF. 4D-163)
DV DOLLY VARDEN	OBSERVED NEAR MOUTH. (REF. 4A-159)
RB RAINBOW TROUT	JUVENILES PRESENT TO AT LEAST 2 KM (REF. 4D-163)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		THIS STREAM MONITORED ANNUALLY FOR JUVENILE CO DENSITIES. (REF. 4D-163)	1987/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

HABITAT DESCRIPTION AND CO POPULATION DATA AVAILABLE. LOWER 2 KM HAVE EXCELLENT CO REARING HABITAT, BUT LOW FLOWS LIMIT PRODUCTION IN SOME YEARS. (REF. 4D-163)
RB SAMPLED AT 2 KM SUSPECTED TO BE ST. (REF. 4D-163)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERMYN BOONSTRA	Date: 1990/04/23
Last updated by: GINA TINGSTAD	Date: 1991/02/25

A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name: SUNSET LAKE CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-6610	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/8
UNNAMED CREEK	010	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6784.60393
		Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS EAST INTO LEFT BANK OF BULKLEY R., FROM SUNSET LAKE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control: Water Survey of Canada (WSC) Flow Gauge:
W.S.C. Station No. 1: No. 2: No. 3: No. 4:
Comments: LAKE SURVEY DATA AVAILABLE FOR ELWIN LAKE. (REF. 4D-92)

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
NW ROCKY MTN WHITEFISH	PRESENT IN ELWIN LAKE. (REF. 4D-92)
RB RAINBOW TROUT	PRESENT IN ELWIN LAKE. (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERYN BOONSTRA	Date: 1990/04/23
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A. DESCRIPTION

Stream Name: UNNAMED CREEK	D.F.O. Division: NORTH COAST
Local Name: ELWIN LAKE CREEK	District: 8 PRINCE RUPERT
Watershed Code: 46-6610-010	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/8	
		B.C.G.S. (1:20k) Map: 9.6736.60392	
		U.T.M. Mouth: DG. ' ' DG. ' '	
		Lat./Long. Mouth:	
		Mainstem Length:	Ref. No.:
		Watershed Area:	Ref. No.:
Location: FLows NORTH INTO RIGHT BANK OF UNNAMED CREEK.			

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control: W.S.C. Station No. 1:	Water Survey of Canada (WSC) Flow Gauge: No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
MW ROCKY NTN WHITEFISH	PRESENT INTO ELWIN LAKE. (REF. 4D-92)
RB RAINBOW TROUT	PRESENT THROUGH TO ELWIN LAKE. (REF. 4D-92)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
NO INFORMATION AVAILABLE				

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

NO INFORMATION AVAILABLE

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: BERYN BOONSTRA	Date: 1990/04/23
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A. DESCRIPTION

Stream Name: CROW CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-6700	Subdistrict: 4D SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 9

Tributaries	Code	Topographic (1:50k) Map: 93L/8
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9 6854.60302
		Lat./Long. Mouth: DG. ' ' ' ' DG. ' ' ' '
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS NE INTO LEFT BANK BULKLEY RIVER DOWNSTREAM FROM BULKLEY LAKE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge:		
W.S.C. Station No. 1:	No. 2:	No. 3:	No. 4:
NO INFORMATION AVAILABLE			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	COHO FRY OUTPLANTED NEAR MAXAM LAKE ROAD CROSSING.(1990) (REF. 4A-159)
RB RAINBOW TROUT	PRESENT. (REF. 4A-159)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
CO COLONIZATION	CO COHO SALMON		COHO FRY FROM UPPER BULKLEY STOCK OUTPLANTED TO CROW CREEK (REF. 4D-156)	1990/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

APPEARS TO HAVE RELATIVELY STABLE SUMMER FLOWS AND COOL SUMMER WATER TEMPERATURES. 10-12 C. IN EARLY JULY 1990. (REF. 4A-159)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	TOM PENDRAY	Date:	1991/02/25
Checked by:	TOM PENDRAY	Date:	1991/02/25
Last updated by:	TOM PENDRAY	Date:	1991/02/26

A. DESCRIPTION

Stream Name: MAXAM CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-6800	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/8
FOXY CREEK	010	B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6867.60295
		Lat./Long. Mouth: 0 06. 0' 0'' 0 06. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLows N INTO BULKLEY LAKE, RGE. 5, COAST DIST.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
BD BEAVER DAM				NUMEROUS THROUGHOUT SYSTEM AND MAY LIMIT FISH DISTRIBUTION. (REF. 40-100)

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y
W.S.C. Station No. 1: 08EE018	No. 2: 08EE019 No. 3: 08EE015 No. 4: 08EE016
Comments: CREEK DRY IN 1970, 1980. SUBJECT TO SEASONAL FLUCTUATIONS AND DRYING. (REF. 40-100)	
ESTIMATED DISCHARGE AUG. 30 - SEP. 3, 1981: 0.20 C.M.S. (REF. 40-26)	
LAKE FED. LAKE SURVEY DATA FOR MAXAM LAKE AVAILABLE. (REF. 40-92)	

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
SK SOCKEYE SALMON	OBSERVED TO MAXAM LAKE. NOT OBSERVED SINCE 1970'S. (REF. 40-92, REF. 40-140)
CO COHO SALMON	OBSERVED TO MAXAM LAKE AND ABOVE. NOT OBSERVED SINCE 1970'S. (REF. 40-26, REF. 40-92, REF. 40-163)
CH CHINOOK SALMON	OBSERVED SPawning AT 11 KM. FRY PRESENT IN FOXY CREEK. (REF. 40-112, REF. 40-140)
BB BURBOT	PRESENT IN MAXAM LAKE. (REF. 40-92)
DV DOLLY VARDEN	PRESENT (REF. 40-12)
LT LAKE TROUT	PRESENT IN MAXAM LAKE. (REF. 40-92)
MW ROCKY MTN WHITEFISH	IN MAXAM LAKE (REF. 40-92)
RB RAINBOW TROUT	OBSERVED IN MAXAM LAKE (REF. 40-12, REF. 40-112)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
SK SOCKEYE SALMON		-				200	4D-158
CO COHO SALMON		-				1500	4D-158
CH CHINOOK SALMON		1980 - 1989		50	28A-18		

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SK SOCKEYE SALMON	Migration Spawning Incubation Rearing								X X X	X X			
CO COHO SALMON	Migration Spawning Incubation Rearing									X X X	X X	X X	

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	CO COHO SALMON		LOWER PORTION OF THIS SYSTEM MONITORED ANNUALLY FOR JUVENILE CO PRESENCE. (REF. 4D-163)	/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

ACTIVE BEAVER AREA (REF. 4D-100)
DETAILED HABITAT DESCRIPTION AVAILABLE AS WELL AS ST POPULATION DATA. (REF. 4D-26)
SUBJECT TO LOW FLOW/HIGH TEMPERATURE PROBLEMS. CO AND CH DISTRIBUTION DEPENDS LARGELY ON FLOWS. (REF. 4A-159)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / /	Prepared By:
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K. SIS COMPLETED BY

Completed by: ROSS DE MARCO	Date: 1987/04/07
Checked by: TOM PENDRAY	Date: 1987/01/30
Last checked by: T PENDRAY	Date: 1991/06/03

ESCAPEMENT : MAXAN CREEK

WATERSHED-CODE : 46-6800

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK	STEELHEAD
1953	UNK	UNK	UNK	UNK	UNK	UNK
1954	UNK	UNK	UNK	UNK	UNK	UNK
1955	UNK	UNK	UNK	UNK	UNK	UNK
1956	UNK	UNK	UNK	UNK	UNK	UNK
1957	UNK	UNK	UNK	UNK	UNK	UNK
1958	UNK	UNK	UNK	UNK	UNK	UNK
1959	UNK	UNK	UNK	UNK	UNK	UNK
1960	UNK	UNK	UNK	UNK	UNK	UNK
1961	UNK	UNK	UNK	UNK	UNK	UNK
1962	UNK	UNK	UNK	UNK	UNK	UNK
1963	UNK	UNK	UNK	UNK	UNK	UNK
1964	UNK	UNK	UNK	UNK	UNK	UNK
1965	0	100	0	0	0	UNK
1966	0	200	0	0	0	UNK
1967	UNK	UNK	UNK	UNK	UNK	UNK
1968	0	400	0	0	0	UNK
1969	200	500	0	0	0	UNK
1970	N/O	N/O	0	0	0	UNK
1971	300	300	0	0	0	UNK
1972	0	70	0	0	0	UNK
1973	UNK	0	0	0	0	UNK
1974	UNK	UNK	0	0	0	UNK
1975	UNK	UNK	0	0	0	UNK
1976	N/O	N/O	0	0	0	UNK
1977	100	N/O	0	0	0	UNK
1978	0	N/O	0	0	0	UNK
1979	N/O	N/O	0	0	0	UNK
1980	0	N/O	0	0	0	UNK
1981	UNK	UNK	0	0	0	UNK
1982	UNK	UNK	0	0	0	UNK
1983	UNK	UNK	0	0	0	UNK
1984	N/O	N/O	0	0	0	UNK
1985	0	0	0	0	0	UNK
1986	0	UNK	UNK	UNK	UNK	UNK
1987	UNK	UNK	0	0	UNK	UNK
1988	0	0	0	0	50	UNK
1989	UNK	UNK	UNK	UNK	UNK	UNK
1990						
1991						
1992						
1993						
1994						
1995						

N/O = STREAM INSPECTED, NO FISH OBSERVED

UNK = STREAM NOT INSPECTED OR NOT INSPECTED FOR SPECIES INDICATED OR SPECIES PRESENT BUT NO ESTIMATE MADE

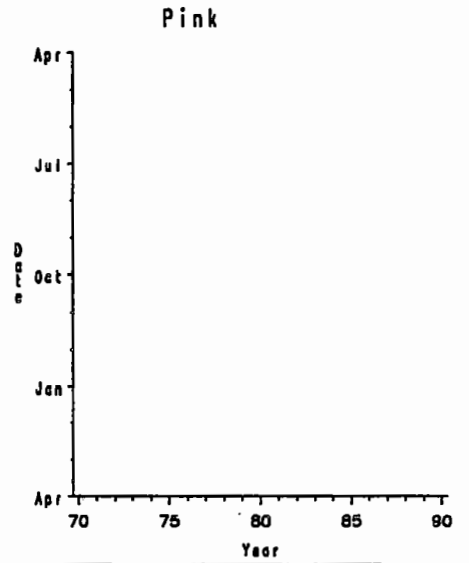
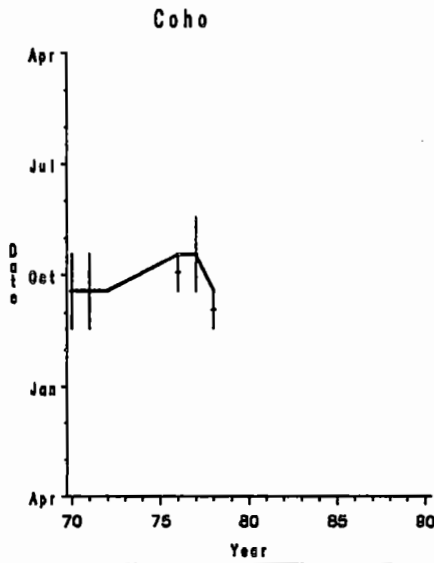
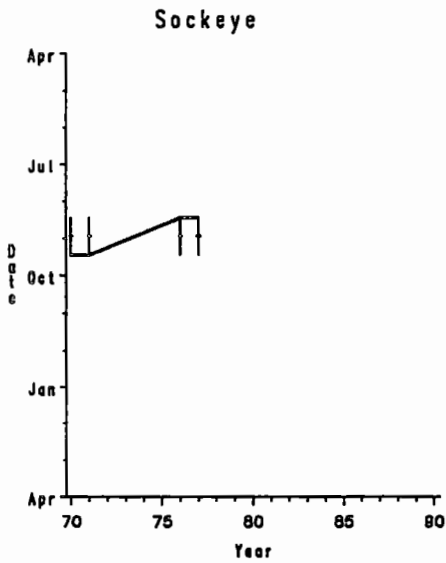
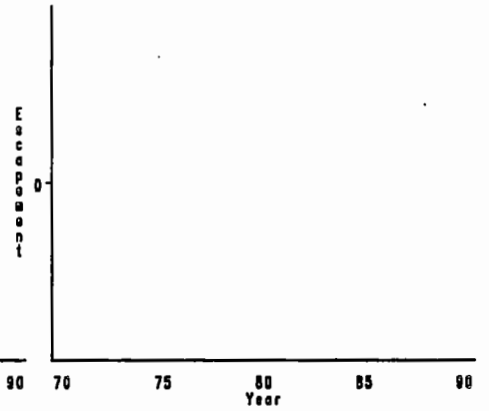
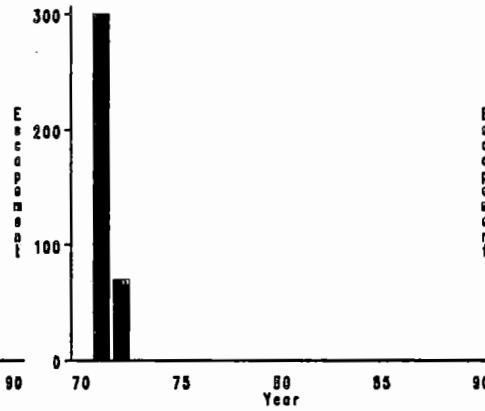
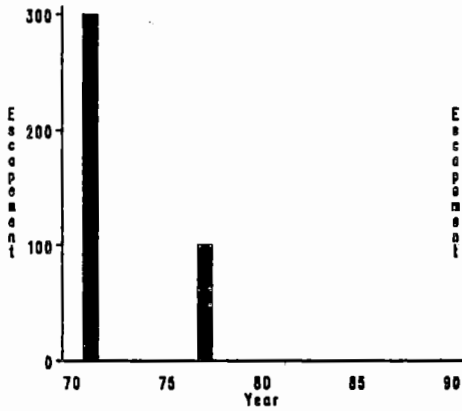
MAXAN CREEK (46-6800)

Escapement & Run Timing

Sockeye (SK)

Coho (CO)

Pink (PK)



Sockeye				
Year	Escapement	Start	Peak	End
1970	0	15AUG	15SEP	15SEP
1971	300	15AUG	15SEP	15SEP
1972	0	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	0	15AUG	15AUG	15SEP
1977	100	15AUG	15AUG	15SEP
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	0	-	-	-
1987	-	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Coho				
Year	Escapement	Start	Peak	End
1970	0	15SEP	15OCT	15NOV
1971	300	15SEP	15OCT	15NOV
1972	70	-	15OCT	-
1973	0	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	0	15SEP	15SEP	15OCT
1977	0	15AUG	15SEP	15OCT
1978	0	15OCT	15OCT	15NOV
1979	0	-	-	-
1980	0	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	0	-	-	-
1989	-	-	-	-

Pink				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

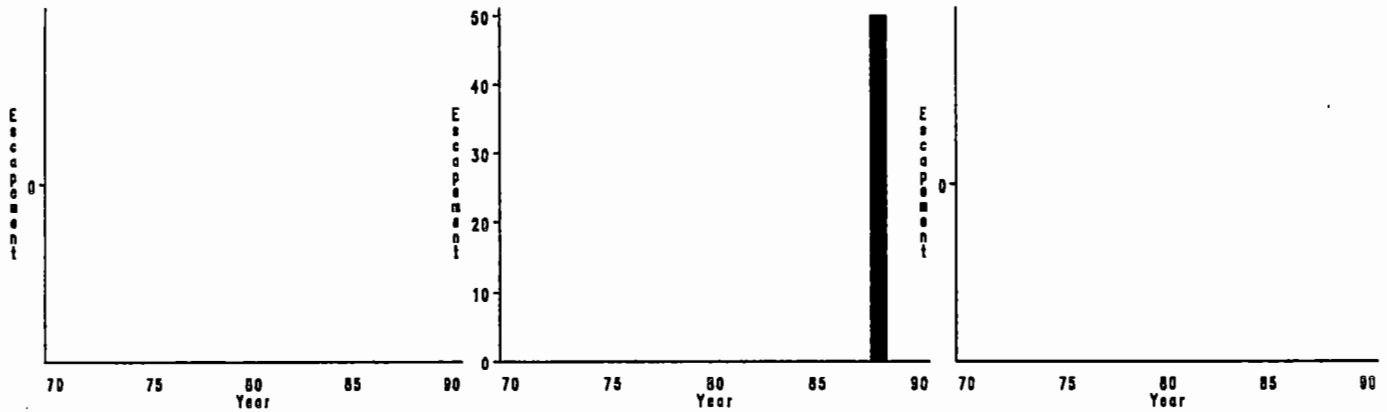
MAXAN CREEK (46-6800)

Escapement & Run Timing

Chum (CM)

Chinook (CH)

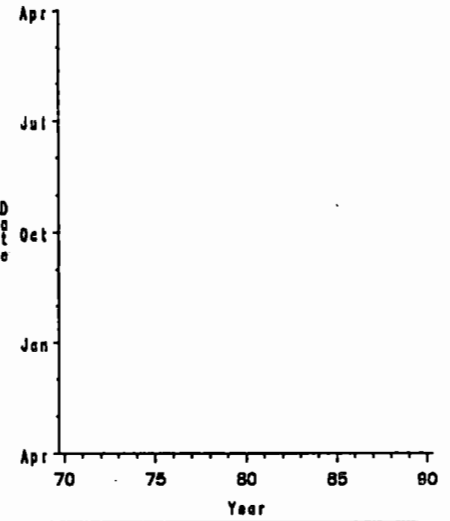
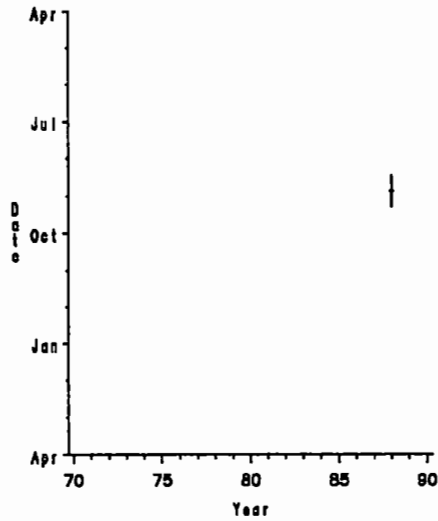
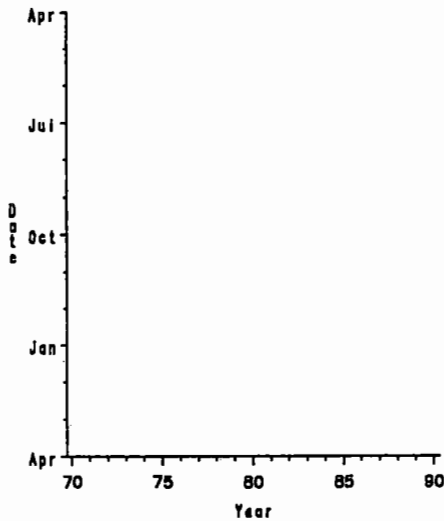
Steelhead (ST)



Chum

Chinook

Steelhead



Chum				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	0	-	-	-
1988	0	-	-	-
1989	-	-	-	-

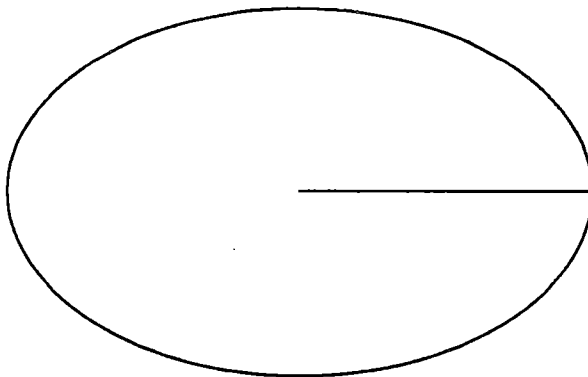
Chinook				
Year	Escapement	Start	Peak	End
1970	0	-	-	-
1971	0	-	-	-
1972	0	-	-	-
1973	0	-	-	-
1974	0	-	-	-
1975	0	-	-	-
1976	0	-	-	-
1977	0	-	-	-
1978	0	-	-	-
1979	0	-	-	-
1980	0	-	-	-
1981	0	-	-	-
1982	0	-	-	-
1983	0	-	-	-
1984	0	-	-	-
1985	0	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	50	19AUG	25AUG	10SEP
1989	-	-	-	-

Steelhead				
Year	Escapement	Start	Peak	End
1970	-	-	-	-
1971	-	-	-	-
1972	-	-	-	-
1973	-	-	-	-
1974	-	-	-	-
1975	-	-	-	-
1976	-	-	-	-
1977	-	-	-	-
1978	-	-	-	-
1979	-	-	-	-
1980	-	-	-	-
1981	-	-	-	-
1982	-	-	-	-
1983	-	-	-	-
1984	-	-	-	-
1985	-	-	-	-
1986	-	-	-	-
1987	-	-	-	-
1988	-	-	-	-
1989	-	-	-	-

MAXAN CREEK (46-6800)

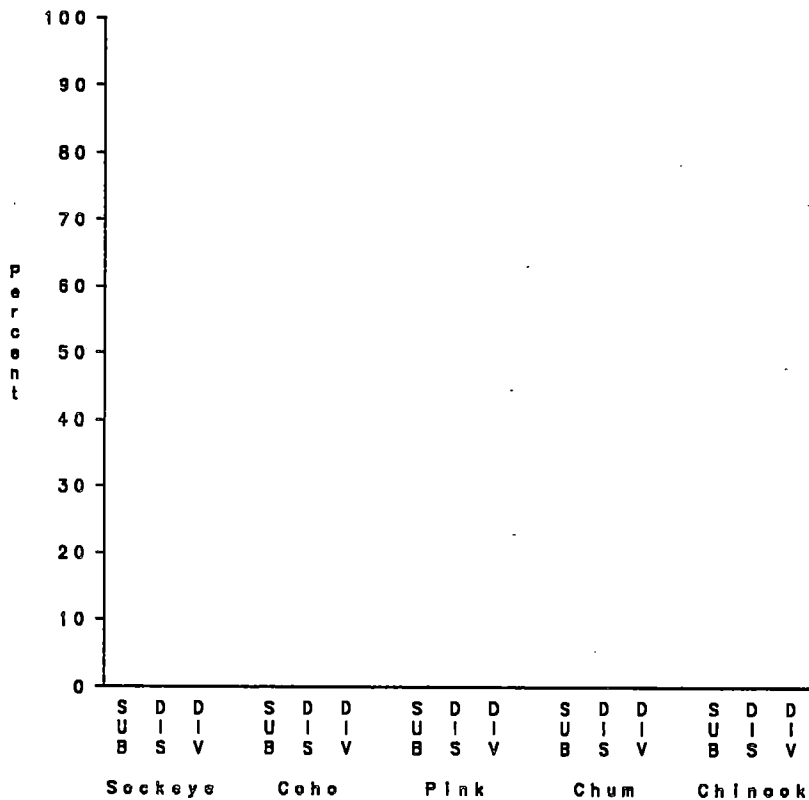
10-yr Mean Escapement
(1980-1989)

Chinook
7
100.00%



MAXAN CREEK : Escapement (1980-1989)

Species Escapement as a Proportion of DFO Management Units
(ie Subdistrict, District & Division)



A. DESCRIPTION

Stream Name: FOXY CREEK	D.F.O. Division: NORTH COAST
Local Name:	District: 8 PRINCE RUPERT
Watershed Code: 46-6800-010	Subdistrict: 40 SMITHERS
	Statistical Subarea: -
	M.O.E. Region: 6 SKEENA
	Management Unit: 09

Tributaries	Code	Topographic (1:50k) Map: 93L/8
		B.C.G.S. (1:20k) Map:
		U.T.M. Mouth: 9.6870.60230
		Lat./Long. Mouth: 0 DG. 0' 0'' 0 DG. 0' 0''
		Mainstem Length: Ref. No.:
		Watershed Area: Ref. No.:
Location: FLOWS N INTO MAXAN C., JUST BELOW MAXAN LAKE.		

Gradient Class/Location (km upstream from mouth)	Comments
0 - .5% .5 - 2% 2 - 5% 5 - 10% >10%	
NO INFORMATION AVAILABLE	

B. OBSTRUCTIONS TO MIGRATION

Barrier (Type)	Height (meters)	Location (km U/S)	Impassable to (species)	Comments
NO INFORMATION AVAILABLE				

C. FLOW

Flow Control:	Water Survey of Canada (WSC) Flow Gauge: Y		
W.S.C. Station No. 1: 08EE015	No. 2: 08EE016	No. 3:	No. 4:
Comments: LAKE FED (REF. 6N-28)			

D. DISTRIBUTION SUMMARY

Species	Watershed Distribution
CO COHO SALMON	OUTPLANTED TO LOWER FOXY CREEK. (1990) (REF. 4D-156)
CH CHINOOK SALMON	JUVENILES OBSERVED AT 2.0 KM (REF. 4D-112)
RB RAINBOW TROUT	OBSERVED AT 7.0 KM (REF. 4D-112)

E. ESCAPEMENT SUMMARY

Species	Escapement			Maximum Recorded Escapement	Ref. No.	Management Target Escapement	Ref. No.
	Mean	Period of Record	Ref. No.				
NO INFORMATION AVAILABLE							

F. LIFE HISTORY TIMING

Species	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NO INFORMATION AVAILABLE													

G. ENHANCEMENT/MANAGEMENT ACTIVITIES IN WATERSHED

Type of Activity	Species	Location (km U/S)	Comments	Period of Operation Start/Finish
FS FISH SAMPLING	RB RAINBOW TROUT		LOWER PORTION MONITORED ANNUALLY FOR RB DENSITIES AND TISSUE SAMPLES FOR EQUITY SILVER. (REF. 40-103)	1984/
CO COLONIZATION	CO COHO SALMON	1.0	FRY OUTPLANTED FROM UPPER BULKLEY STDCCK (REF. 40-156)	1990/

H. LAND USE/WATER USE/WATER QUALITY

Activity	Description/Location
NO INFORMATION AVAILABLE	

I. FISH PRODUCTION POTENTIAL/CONSTRAINTS/GENERAL COMMENTS

RELATIVELY STABLE SUMMER FLOWS AND COOL SUMMER WATER TEMPERATURES (REF. 4A-159)

J. FISHERY OFFICER NARRATIVE

Date Prepared: / / Prepared By:

K. SIS COMPLETED BY

Completed by:	ROSS DE MARCO	Date:	1987/04/07
Checked by:	TOM PENDRAY	Date:	1987/01/30
Last updated by:	TOM PENDRAY	Date:	1991/02/26
Last checked by:	T. PENDRAY	Date:	1991/02/22

NUMERIC BIBLIOGRAPHY

REFERENCE LIST
1991/04/09

Page: 1

REFERENCE NO: 4A-159

AUTHOR: PENDRAY, T.
DESCRIPTION: T. PENDRAY. HABITAT INVENTORY BIOLOGIST. DEPT. OF FISHERIES AND OCEANS, PRINCE RUPERT, B.C. PERSONAL COMMUNICATION AND MISCELLANEOUS FISH SAMPLING.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS:

REFERENCE NO: 4C- 92

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: SKEENA RIVER LAKE MANAGEMENT FILES. B.C. MINISTRY OF ENVIRONMENT, SMITHERS, B.C.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES AO ALL SALMON CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
KD KOKAMEE MW ROCKY MOUNTAIN WHITEFISH PY PHYSICAL HABITAT
RB RAINBOW TROUT ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 4D- 1

AUTHOR: PINSENT, M.E.; CHUDYK, W.E.
DESCRIPTION: AN OUTLINE OF THE STEELHEAD OF THE SKEENA RIVER SYSTEM (AN INITIAL BASIS FOR MANAGEMENT). F.& W.B. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: AO ALL SALMON CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
HS HABITAT SAMPLING PS POPULATION SAMPLING PY PHYSICAL HABITAT
ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 4D- 2

AUTHOR: TAYLOR, G.D.
DESCRIPTION: REPORT ON THE PRELIMINARY SURVEY OF THE SKEENA RIVER DRAINAGE STREAMS. MARCH 1968. F.& W.B. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 9

AUTHOR: TAYLOR, G.D.; SEREDICK, R.W.;
DESCRIPTION: FEEDING HABITS OF SOME SALMONIDS IN THE UPPER MORICE RIVER. SEPTEMBER 1968. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR FS FISH SAMPLING
MW ROCKY MOUNTAIN WHITEFISH RB RAINBOW TROUT ST STEELHEAD

REFERENCE NO: 4D- 10

AUTHOR: PINSENT, M.E.;
DESCRIPTION: A REPORT REGARDING THE SUITABILITY OF OWEN CREEK, B.C., AS A POTENTIAL SITE FOR THE CONSTRUCTION OF ARTIFICIAL SPAWNING FACILITIES FOR STEELHEAD TROUT. NOV.1969. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING M MIGRATION
PY PHYSICAL HABITAT S SPAWNING

REFERENCE NO: 4D- 11

AUTHOR: TAYLOR, G.D.; SEREDICK, R.W.;
DESCRIPTION: THAUTIL RIVER - DENYS CREEK INVENTORY. AUGUST 1968. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING PS POPULATION SAMPLING
PY PHYSICAL HABITAT WQ WATER QUALITY

REFERENCE NO: 4D- 12

AUTHOR: RENINGTON, D.; AMOS, J.;
DESCRIPTION: MAXAM CREEK. AUGUST 1974. STREAM SURVEY FORM.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
PY PHYSICAL HABITAT RB RAINBOW TROUT

REFERENCE NO: 4D- 13

AUTHOR: MARVER, D.;
DESCRIPTION: AGE AND SIZE OF STEELHEAD IN THE BABINE RIVER, BRITISH COLUMBIA. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 14

AUTHOR: PINSENT, M.E.;
DESCRIPTION: REPORT ON THE STEELHEAD TROUT (SALMO GAIRONERI) OF BABINE RIVER, BRITISH COLUMBIA, JUNE 1969. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 15

AUTHOR: PINSENT, M.E.;
DESCRIPTION: INCIDENTAL TAG RETURNS FROM A 1970 STEELHEAD TAGGING PROGRAM ON THE BABINE RIVER, B.C.. JANUARY 1973. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 16

AUTHOR: PINSENT, M.E.;
DESCRIPTION: POPULATION SIZE AND SOME OTHER CHARACTERISTICS OF THE STEELHEAD IN THE BABINE RIVER, BRITISH COLUMBIA, FEBRUARY 1971.
TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 17

AUTHOR: GRAHAM, C.C.; MCINDOE, R.A.; MEYERS, D.M.;
DESCRIPTION: BIOPHYSICAL STREAM SURVEY OF SEVERAL STREAMS IN THE BABINE - NIKKITKWA AREA. FISHERIES & MARINE SERVICE DATA
REPORT. SERIES PAC/D-76-3.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FO FORESTRY FS FISH SAMPLING HS HABITAT SAMPLING
HI MINING PY PHYSICAL HABITAT SK SOCKEYE

REFERENCE NO: 4D- 18

AUTHOR: THORNE, F.;
DESCRIPTION: SUSTUT RIVER, JUNE 1975. STREAM SURVEY FORM.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: HS HABITAT SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 4D- 19

AUTHOR: BALL, K.; HARDING, E.A.;
DESCRIPTION: AN INVENTORY OF THE STREAMS IN THE GRASSHAM, CANSSELL AND OGSTON LAKE SYSTEM, DECEMBER 1974. F.& W.B. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: HS HABITAT SAMPLING PY PHYSICAL HABITAT

REFERENCE NO: 4D- 20

AUTHOR: CARMICHAEL, N.B.;
DESCRIPTION: AN INVENTORY OF THE PINKUT WATERSHED, NOVEMBER 1977. TYPED REPORT. 231 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING KO KOKANEE
PY PHYSICAL HABITAT RB RAINBOW TROUT

REFERENCE NO: 4D- 22

AUTHOR: B.C. RESOURCE ANALYSIS BRANCH
DESCRIPTION: AQUATICS BIOPHYSICAL MAPS - 1:50000. MAPS-B.C., VICTORIA, B.C.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: AF ALL SPECIES FS FISH SAMPLING HS HABITAT SAMPLING
OB OBSTRUCTIONS PY PHYSICAL HABITAT

REFERENCE NO: 4D- 25

AUTHOR: TREDGER D.
DESCRIPTION: ASSESSMENT OF STEELHEAD ENHANCEMENT OPPORTUNITIES IN THE MORICE RIVER SYSTEM. PROGRESS IN 1980. DECEMBER, 1981. F
& W B. TYPED REPORT. 116 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
FS FISH SAMPLING HS HABITAT SAMPLING PS POPULATION SAMPLING
PY PHYSICAL HABITAT RB RAINBOW TROUT ST STEELHEAD

REFERENCE NO: 40- 26

AUTHOR: TREDGER, C.D.
DESCRIPTION: UPPER BULKLEY RIVER RECONNAISSANCE WITH REFERENCE TO JUVENILE STEELHEAD CARRYING CAPACITY. JUNE 1982. F&W B. TYPED REPORT. 78PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO HS HABITAT SAMPLING
PS POPULATION SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 40- 29

AUTHOR: TREDGER, C.D.
DESCRIPTION: UPPER BULKLEY RIVER STEELHEAD POPULATION MONITORING. MAY 1983. F.& W.B. TYPED REPORT. 42 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40- 31

AUTHOR: TREDGER, C.D.
DESCRIPTION: MORICE RIVER - SNORKEL SURVEY. FEBRUARY 1984. FISH HABITAT IMPROVEMENT RECONNAISSANCE REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO DV DOLLY VARDEN CHAR
FS FISH SAMPLING MW ROCKY MOUNTAIN WHITEFISH PK PINK
RB RAINBOW TROUT ST STEELHEAD

REFERENCE NO: 40- 32

AUTHOR: TREDGER, C.D.
DESCRIPTION: UPPER SKEENA STEELHEAD FRY POPULATION MONITORING. MARCH 1986. STEELHEAD STOCK MONITORING REPORT. B.C. MIN. OF ENVIRONMENT, VICTORIA, B.C.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO PS POPULATION SAMPLING
ST STEELHEAD

REFERENCE NO: 40- 35

AUTHOR: TREDGER, C.D.
DESCRIPTION: BULKLEY/MORICE STEELHEAD STOCK MONITORING. MARCH 1986. STOCK MONITORING REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40- 38

AUTHOR: TREDGER, C.D.
DESCRIPTION: SKEENA BOAT SHOCKING PROGRAM. FEBRUARY 1984. F.& W.B. TYPED REPORT. 55 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING MW ROCKY MOUNTAIN WHITEFISH
PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40- 39

AUTHOR: TREDGER, C.D.
DESCRIPTION: AN EVALUATION OF FISH HABITAT AND FISH POPULATIONS IN TOBOGGAN CREEK, NEAR SMITHERS, RELEVANT TO STEELHEAD ENHANCEMENT OPPORTUNITIES MARCH 1979. F.& W.B. TYPED REPORT. 130 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
FS FISH SAMPLING HS HABITAT SAMPLING MW ROCKY MOUNTAIN WHITEFISH
PS POPULATION SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 40- 41

AUTHOR: TREDGER, C.D.
DESCRIPTION: JUVENILE STEELHEAD POPULATIONS IN THE MORICE RIVER SYSTEM, 1980 TO 1982. DECEMBER 1983. F.& W.B. TYPED REPORT. 137 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO HS HABITAT SAMPLING
PS POPULATION SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 4D- 44

AUTHOR: LOUGH, M.J.
DESCRIPTION: COMMERCIAL INTERCEPTIONS OF STEELHEAD TROUT IN THE SKEENA RIVER - RADIO TELEMETRY STUDIES OF STOCK IDENTIFICATION AND RATES OF MIGRATION. 1981. B.C.FISH & WILDLIFE BR. SKEENA FISHERIES REPORT NO. 80-03 (S.E.P.). 34 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: EN ENHANCEMENT M MIGRATION PS POPULATION SAMPLING
ST STEELHEAD

REFERENCE NO: 4D- 46

AUTHOR: ANON.
DESCRIPTION: ASSESSMENT OF THE IMPACT OF THE KEMANO II PROPOSAL ON THE FISH AND WILDLIFE RESOURCES OF THE MANIKA-KIDPRICE AND MORICE SYSTEMS. 1979. M.O.E. F.& W.B. HABITAT PROTECTION SECTION REPORT. 124 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: DA DAMS FS FISH SAMPLING HS HABITAT SAMPLING
PS POPULATION SAMPLING PY PHYSICAL HABITAT MW WATER WITHDRAWAL

REFERENCE NO: 4D- 47

AUTHOR: HAYWARD & ASSOCIATES LTD.
DESCRIPTION: PRELIMINARY ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT OF THE STIKINE / ISKUT TRANSMISSION SYSTEM. JULY 1982. IAN HAYWARD & ASSOCIATES LTD. VOLUMES 1 - 4.
LOCATION: M MOE - PLANNING AND ASSESSMENT BRANCH - VICTORIA
KEYWORDS: AO ALL SALMON DA DAMS FS FISH SAMPLING
LD LINEAR DEVELOPMENT LU LAND USE TR TROUT
MU WATER USE

REFERENCE NO: 4D- 48

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: BRITISH COLUMBIA RAILWAY DEASE LAKE EXTENSION 1984 ENVIRONMENTAL INSPECTION. JANUARY 1984. B.C. PLANNING & ASSESSMENT BRANCH TYPED REPORT. 36 PP.
LOCATION: M MOE - PLANNING AND ASSESSMENT BRANCH - VICTORIA
KEYWORDS: LD LINEAR DEVELOPMENT LU LAND USE MU WATER USE

REFERENCE NO: 4D- 51

AUTHOR: SMITH, J.L.; BEREZAY, G.F.
DESCRIPTION: BIOPHYSICAL RECONNAISSANCE OF THE MORICE RIVER SYSTEM, 1978-1980. DFO S.E.P. OPERATIONS. TYPED REPORT. 78 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO EN ENHANCEMENT
FL FLOW FS FISH SAMPLING M MIGRATION
PS POPULATION SAMPLING S SPAWNING TE TEMPERATURE

REFERENCE NO: 4D- 52

AUTHOR: MCNALLY, J.W.C.; NIELSEN, G.O.; SCHOUWENBURG, W.J.
DESCRIPTION: ALLEVIATION OF OBSTRUCTION AT MANIKA RIVER FALLS LOCATED AT OUTLET OF KIDPRICE LAKE. MAY 1984. GOV. OF CANADA MEMORANDUM TO A.F. LILL / ENHANCEMENT OPPORTUNITIES COMMITTEE. FILE #5903-85-NH1. 10 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO EN ENHANCEMENT
SK SOCKEYE

REFERENCE NO: 4D- 53

AUTHOR: ANON.
DESCRIPTION: MORRISON RIVER CROSSING - HOUSTON FOREST PRODUCTS LTD. JUNE 1982. D.F.O. LETTER TO G. STAHL, M.O.F. HOUSTON, B.C.. FILE # 5915-121-50-3
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: EN ENHANCEMENT FO FORESTRY LD LINEAR DEVELOPMENT

REFERENCE NO: 4D- 54

AUTHOR: ANON.
DESCRIPTION: MEMORANDA AND LETTERS. VARIOUS DATES AND AUTHORS. BABINE RIVER TRIBUTARIES FILE. DFO HABITAT MANAGEMENT UNIT, PRINCE RUPERT.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: EN ENHANCEMENT SK SOCKEYE

REFERENCE NO: 40- 58

AUTHOR: Groat, A.M.
DESCRIPTION: PROPOSED FLOOD CONTROL WORK, BUCK CREEK, B.C. JANUARY 1973. D.F.O. LETTER TO R.N. PALMER. 2 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO EN ENHANCEMENT
PK PINK

REFERENCE NO: 40- 59

AUTHOR: BEREZAY, G.
DESCRIPTION: 1979 COHO SURVEY OF THE MORICE SYSTEM OCTOBER 17, 1979 TO OCTOBER 23, 1979. D.F.O. MEMORANDUM TO R. KADOWAKI. FILE # 5903-85-M391.8 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CO COHO FS FISH SAMPLING HS HABITAT SAMPLING
PY PHYSICAL HABITAT

REFERENCE NO: 40- 64

AUTHOR: SHEPHERD, B.G.
DESCRIPTION: SALMON STUDIES ON MANIKA AND MORICE RIVERS AND MORICE LAKE RELATIVE TO THE PROPOSED KEMANO II DEVELOPMENT. VOLUME 5. FEBRUARY 1979. DEPT. OF FISHERIES AND ENVIRONMENT PUBLICATION.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO DA DAMS
FS FISH SAMPLING HS HABITAT SAMPLING M MIGRATION
PK PINK PS POPULATION SAMPLING PY PHYSICAL HABITAT
R REARING S SPawning SK SOCKEYE

REFERENCE NO: 40- 66

AUTHOR: ENVIROCON LTD.
DESCRIPTION: KEMANO COMPLETION HYDROELECTRIC DEVELOPMENT BASELINE ENVIRONMENTAL STUDIES VOLUME 4 FISH RESOURCES: MORICE RIVER SYSTEM. SEPTEMBER 1981. ENVIROCON LTD. PUBLICATION FOR ALCAN.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO DA DAMS
FS FISH SAMPLING HS HABITAT SAMPLING PK PINK
PS POPULATION SAMPLING PY PHYSICAL HABITAT SK SOCKEYE
ST STEELHEAD

REFERENCE NO: 40- 71

AUTHOR: SHEPHERD, B.G.
DESCRIPTION: UPPER SKEENA CHINOOK STOCKS: EVALUATION OF THE BEAR - SUSTUT, MORICE AND LOWER BABINE STOCKS. 1975. FISHERIES & MARINE SERVICE. UNPUB. MANUSCRIPT.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: CH CHINOOK EN ENHANCEMENT PS POPULATION SAMPLING

REFERENCE NO: 40- 72

AUTHOR: SMITH, H.D.; JORDAN, F.P.
DESCRIPTION: TIMING OF BABINE L. SOCKEYE STOCKS IN THE NORTH-COAST COMMERCIAL FISHERY AS SHOWN BY SEVERAL TAGGINGS AT THE BABINE. 1973. F.R.B.C. TECHNICAL REPORT 418.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: EN ENHANCEMENT M MIGRATION SK SOCKEYE

REFERENCE NO: 40- 74

AUTHOR: TAKAGI, K.; SMITH, H.D.
DESCRIPTION: TIMING AND RATE OF MIGRATION OF BABINE SOCKEYE STOCKS THROUGH THE SKEENA AND BABINE R.. 1973. F.R.B.C. TECHNICAL REPORT 419.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: M MIGRATION SK SOCKEYE

REFERENCE NO: 40- 75

AUTHOR: CLEUGH, T.R.; LAWLEY, B.C.
DESCRIPTION: THE LIMNOLOGY OF MORICE L. RELATIVE TO THE PROPOSED KEMANO II POWER DEVELOPMENT. 1979. D.F.O. TYPED REPORT.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: DA DAMS FS FISH SAMPLING HS HABITAT SAMPLING
PS POPULATION SAMPLING

REFERENCE NO: 4D- 76

AUTHOR: ENVIROCON LTD
DESCRIPTION: KEMANO II HYDROELECTRIC DEVELOPMENT ENVIRONMENTAL IMPACT STUDY PHASE 1 OVERVIEW AND STUDY DESIGN. FEBRUARY 1979.
ENVIROCON LTD. PUBLICATION.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AF ALL SPECIES DA DAMS

REFERENCE NO: 4D- 77

AUTHOR: ENVIROCON LTD
DESCRIPTION: MORICE RIVER CHINOOK SPawner ENUMERATION STUDY, 1979. MARCH 1980. ENVIROCON LTD. PUBLICATION.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK PS POPULATION SAMPLING S SPAWNING

REFERENCE NO: 4D- 78

AUTHOR: HALLAM, R.L.; KUSSAT, R.H.; JONES, M.
DESCRIPTION: ENVIRONMENTAL IMPACT INFORMATION OF THE PROPOSED EQUITY MINING CAPITAL LTD. DEVELOPMENT NEAR HOUSTON, B.C.. JUNE
1975. E.P.S. POLLUTION ABATEMENT BRANCH. M.S. REPORT 75-1
LOCATION: B8 EPS - REGIONAL OFFICE - VANCOUVER
KEYWORDS: CD COHO ED EFFLUENT DISCHARGE MI MINING

REFERENCE NO: 4D- 79

AUTHOR: HARDING, D.R.
DESCRIPTION: THE STATUS OF THE NANIKA - MORICE SOCKEYE SALMON POPULATION AND THE MORICETOWN NATIVE FOOD FISHERY IN 1967 AND 1968.
1969. D.F.O. TYPED REPORT.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: M MIGRATION PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 4D- 80

AUTHOR: ANON
DESCRIPTION: SUMMARY OF SALMON STUDIES CONDUCTED ON NECHAKO / MORICE / NANIKA R. SYSTEMS RELATIVE TO PROPOSED KEMANO II POWER
DEVELOPMENT. VOLUME 1. 1979. I.P.S.F.C.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: AD ALL SALMON DA DAMS PS POPULATION SAMPLING

REFERENCE NO: 4D- 81

AUTHOR: ANON
DESCRIPTION: LIMNOLOGY OF MORICE LAKE. VOLUME 4. 1979. I.P.S.F.C.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING PS POPULATION SAMPLING

REFERENCE NO: 4D- 82

AUTHOR: ANON
DESCRIPTION: SALMON STUDIES OF NANIKA AND MORICE R. AND MORICE LAKE. VOLUME 5. 1979. I.P.S.F.C.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: AD ALL SALMON DA DAMS FS FISH SAMPLING
PS POPULATION SAMPLING

REFERENCE NO: 4D- 83

AUTHOR: KUSSAT, R.; PETERSON, K.
DESCRIPTION: AN ASSESSMENT OF THE EFFECTS ON THE MORICE AND BULKLEY R. SYSTEMS OF A PULP MILL AT HOUSTON, B.C.. APRIL 1972. D.F.O.
TYPED REPORT.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: AD ALL SALMON ED EFFLUENT DISCHARGE IP INDUSTRIAL PROCESSING

REFERENCE NO: 4D- 84

AUTHOR: CLARKE, W.C.; SMITH, H.D.
DESCRIPTION: OBSERVATIONS ON THE MIGRATION OF SOCKEYE SALMON FRY IN THE LOWER BABINE R.. 1972. J.F.R.B.C. 29:151-159.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: M MIGRATION PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 4D- 85

AUTHOR: AMON
DESCRIPTION: THE BABINE LAKE SALMON DEVELOPMENT PROGRAM. 1968. F.R.B.C. REPORT.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: EN ENHANCEMENT S SPANNING SK SOCKEYE

REFERENCE NO: 4D- 86

AUTHOR: GROOT, C.; SIMPSON, K.S.; TURNER, C.E.
DESCRIPTION: ANALYSIS OF ULTRASONIC TRACKING RECORDS OF ADULT SOCKEYE SALMON MIGRATION IN BABINE LAKE. SEPTEMBER 1972.F.R.B.C.
TECHNICAL REPORT 335.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: EN ENHANCEMENT M MIGRATION PS POPULATION SAMPLING
S SPANNING SK SOCKEYE

REFERENCE NO: 4D- 87

AUTHOR: JORDAN, F.P.; SMITH, H.D.
DESCRIPTION: SUMMARY OF SALMON COUNTS AND OBSERVATIONS FROM THE BABINE RIVER COUNTING FENCE 1967-71. AUGUST 1972. F.R.B.C.
TECHNICAL REPORT 331.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 4D- 88

AUTHOR: MCCART, P.J.
DESCRIPTION: A POLYMORPHIC POPULATION OF O. MERKA AT BABINE L. INVOLVING ANADROMOUS (SOCKEYE) AND NON-ANADROMOUS (KOKANEE).
1971.U.B.C. PH.D. THESIS.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: FS FISH SAMPLING KD KOKANEE PS POPULATION SAMPLING
SK SOCKEYE

REFERENCE NO: 4D- 89

AUTHOR: HARVER, D.W.
DESCRIPTION: PRIMARY PRODUCTIVITY IN THE BABINE LAKE SYSTEM, B.C.. 1967. J.F.R.B.C. 24(10),1967.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: HS HABITAT SAMPLING PY PHYSICAL HABITAT SK SOCKEYE
WQ WATER QUALITY

REFERENCE NO: 4D- 90

AUTHOR: VROOM, D.R.
DESCRIPTION: AN ATTEMPT TO DETERMINE ABUNDANCE AND DISTRIBUTION OF MIGRATING SKEENA RIVER SALMON STOCKS BY ACOUSTICAL MEANS. 1971.
D.F.O. TYPED REPORT.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: AO ALL SALMON M MIGRATION PS POPULATION SAMPLING

REFERENCE NO: 4D- 92

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: SKEENA RIVER LAKE MANAGEMENT FILES. VARIOUS AUTHDRS AND DATES. B.C. MIN. OF ENVIRONMENT, SMITHERS, B.C.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES AO ALL SALMON CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
KD KOKANEE NW ROCKY MOUNTAIN WHITEFISH PY PHYSICAL HABITAT
RB RAINBOW TROUT ST STEELHEAD MQ WATER QUALITY

REFERENCE NO: 4D- 99

AUTHOR: HANCOCK, M.J.; LEANEY-EAST A.J.; MARSHALL, D.E.;
DESCRIPTION: CATALOGUE OF SALMON STREAMS AND SPANNING ESCAPMENTS OF STATISTICAL AREA 4 (LOWER SKEENA RIVER) INCLUDING COASTAL
STREAMS. CAN. DATA REPORT OF FISHERIES AND AQUATIC SCIENCES NO.395 APRIL 1983.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AO ALL SALMON M MIGRATION PY PHYSICAL HABITAT
S SPANNING

REFERENCE NO: 4D-100

AUTHOR: HANCOCK, M.J.; LEANEY-EAST, A.J.; MARSHALL, D.E.
DESCRIPTION: CATALOGUE OF SALMON STREAMS AND SPANNING ESCAPMENTS OF STATISTICAL AREA 4 (UPPER SKEENA RIVER). APRIL 1983. CANADIAN
DATA REPORT OF FISHERIES & AQUATIC SCIENCES. NO. 394.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AO ALL SALMON M MIGRATION PY PHYSICAL HABITAT
S SPANNING

REFERENCE NO: 4D-102

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: B. CHUDYK, R. TETRAULT, G. SHULTZE. M.O.E. FISHERIES BRANCH PERSONNEL - SMITHERS. PERSONAL COMMUNICATIONS.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-103

AUTHOR: BUSTARD, D.
DESCRIPTION: FISHERIES CONSULTANT. DAVE BUSTARD & ASSOCIATES. SMITHERS, B.C. PERSONAL COMMUNICATION.
LOCATION: NA NOT APPLICABLE
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-104

AUTHOR: PENDRAY, T.
DESCRIPTION: BABINE / NICHYESKWA / MILKITKWA SURVEY - AUGUST/85 SUMMARY OF FISH SAMPLING RESULTS. MARCH 1986. D.F.O. TYPED REPORT. 5 PP. AND MAP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CD COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
FS FISH SAMPLING HW ROCKY MOUNTAIN WHITEFISH RB RAINBOW TROUT
SK SOCKEYE

REFERENCE NO: 4D-105

AUTHOR: CARSMELL, R.; WITT, A.
DESCRIPTION: AN INVENTORY OF THE NANIKA RIVER AND TRIBUTARIES (BETWEEN KIDPRICE LAKE AND MORICE LAKE). FEBRUARY 1979. F.& W.B. TYPED REPORT.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING

REFERENCE NO: 4D-106

AUTHOR: CARSMELL, R.
DESCRIPTION: AN INVENTORY OF THAUTIL RIVER AND TRIBUTARIES. FEBRUARY 1979. F.& W.B. TYPED REPORT. 26 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CD COHO DV DOLLY VARDEN CHAR FS FISH SAMPLING
HS HABITAT SAMPLING HW ROCKY MOUNTAIN WHITEFISH PY PHYSICAL HABITAT
RB RAINBOW TROUT

REFERENCE NO: 4D-107

AUTHOR: CARSMELL, R.
DESCRIPTION: AN INVENTORY OF GOSNELL CREEK AND TRIBUTARIES. FEBRUARY 1979. F.& W.B. TYPED REPORT.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING

REFERENCE NO: 4D-112

AUTHOR: BUSTARD, D.
DESCRIPTION: ASSESSMENT OF BENTHIC INVERTEBRATE AND JUVENILE FISH POPULATIONS IN FOXY AND BUCK CREEKS, SEPTEMBER 1984. OCTOBER 1984. DAVID BUSTARD & ASSOCIATES REPORT FOR EQUITY SILVER MINES. 26 PP AND APPENDICES.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: FS FISH SAMPLING PY PHYSICAL HABITAT

REFERENCE NO: 4D-113

AUTHOR: BUSTARD, D.
DESCRIPTION: 1983 INVESTIGATIONS OF ADULT PINK SALMON IN THE TELKWA RIVER. OCTOBER 1983. READ ENVIRONMENTAL & PLANNING ASSOCIATES LTD. REPORT. 11 PP AND APPENDICES.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: PK PINK S SPANNING

REFERENCE NO: 4D-114

AUTHOR: BUSTARD, D.
DESCRIPTION: AQUATIC RESOURCE ASSESSMENT OF THE TELKWA COAL PROJECT 1984 STUDIES. FEBRUARY 1985. DAVID BUSTARD & ASSOCIATES REPORT FOR CROWS NEST RESOURCES. 109 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING MI MINING
PS POPULATION SAMPLING PY PHYSICAL HABITAT

REFERENCE NO: 4D-115

AUTHOR: LEVY, D.A.; HALL, K.J.; YESAKI, I.
DESCRIPTION: LOG TRANSPORTATION IMPACT IN BABINE LAKE, PHASE II 1984. COMPARISON OF CONDITIONS IN ACTIVE AND HISTORICAL OPERATING SITES. JANUARY 1985. WESTWATER RESEARCH CENTRE (UBC) PUBLICATION. 160 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FO FORESTRY PS POPULATION SAMPLING SK SOCKEYE
WQ WATER QUALITY

REFERENCE NO: 4D-117

AUTHOR: HARDER, P.A. & ASSOCIATES
DESCRIPTION: ENHANCEMENT POTENTIAL FOR MORICE SYSTEM STEELHEAD TROUT STOCKS. SEPTEMBER 1983. P.A. HARDER & ASSOCIATES REPORT. 69 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: EN ENHANCEMENT ST STEELHEAD

REFERENCE NO: 4D-118

AUTHOR: WILLIAMS, R.A.; STEWART, G.O.; MURRAY, P.R.
DESCRIPTION: JUVENILE SALMONID STUDIES IN THE SUSTUT AND BEAR RIVERS, B.C., 1984. DECEMBER 1985. ENVIROCON LTD. REPORT FOR D.F.O. 1936/MP 1943.146 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CH CHINOOK CO COHO FS FISH SAMPLING
PK PINK PS POPULATION SAMPLING PY PHYSICAL HABITAT
SK SOCKEYE ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 4D-121

AUTHOR: LOUGH, M.J.
DESCRIPTION: M. LOUGH, M.O.E. FISHERIES BRANCH PERSONNEL - SMITHERS. PERSONAL COMMUNICATION.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT

REFERENCE NO: 4D-128

AUTHOR: WHATELY, M.R.
DESCRIPTION: BABINE STEELHEAD - A FUTURE. JUNE 1978. F.& W.B. SKEENA FISHERIES REPORT NO. 78-2 (S.E.P.). 8 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: EN ENHANCEMENT PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D-129

AUTHOR: HATLEVIK, S.P.
DESCRIPTION: TOBOGGAN CREEK: A REPORT ON THE RESULTS OF FIELD WORK UNDERTAKEN BY THE BULKLEY VALLEY STEELHEAD CLUB AUGUST - OCTOBER, 1978. NOVEMBER 1979. F.& W.B. SKEENA REG. FISHERIES PROGRESS REPORT NO. SK-20. 24 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO EN ENHANCEMENT PK PINK
PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D-131

AUTHOR: HATLEVIK, S.P.
DESCRIPTION: A FISHERIES INVENTORY OF THE GOSNELL CREEK WATERSHED. APRIL 1981. F.& W.B. SKEENA FISHERIES REPORT NO. 80-6. 29 PP. AND APPENDICES.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
EN ENHANCEMENT FO FORESTRY FS FISH SAMPLING
HS HABITAT SAMPLING ST STEELHEAD

REFERENCE NO: 4D-132

AUTHOR: ANON
DESCRIPTION: FISH SAMPLING INFORMATION FOR THE GOSNELL CREEK WATERSHED. OCTOBER 1980. F.& W.B. FISHERIES RESOURCE MAP. 1:50,000 SCALE.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CH CHINOOK CO COHO CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
RB RAINBOW TROUT

REFERENCE NO: 4D-133

AUTHOR: ANOW
DESCRIPTION: FISH SAMPLING INFORMATION FOR THE MORRISON LAKE WATERSHED, OCTOBER 1980. F. & W.B. FISHERIES RESOURCES MAP. 1:50,000 SCALE.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CH CHINOOK CO COHO FS FISH SAMPLING
HS HABITAT SAMPLING RB RAINBOW TROUT SK SOCKEYE

REFERENCE NO: 4D-136

AUTHOR: READ & ASSOCIATES LTD.
DESCRIPTION: TELKWA PROJECT STAGE I APPLICATION, DECEMBER 1983. READ ENVIRONMENTAL AND PLANNING ASSOCIATES LTD. REPORT FOR CROWS NEST RESOURCES AND B.C. MIN. ENERGY, MINES & PETROLEUM RESOURCES. 156 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
HS HABITAT SAMPLING LU LAND USE MI MINING
NW ROCKY MOUNTAIN WHITEFISH PK PINK PY PHYSICAL HABITAT
ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 4D-139

AUTHOR: SEKARAK, A.G.; TAYLOR, J.A.; STALLARD, M.
DESCRIPTION: FISHERIES INVESTIGATIONS IN RELATION TO THE MOUNT KLAPPAN COAL PROJECT FINAL REPORT, 1984. L.G.L. LTD. REPORT FOR GULF CANADA RESOURCES. 66 PP. AND APPENDICES.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING LU LAND USE

REFERENCE NO: 4D-140

AUTHOR: TURNBULL, T.
DESCRIPTION: 1987. FISHERIES OFFICER, DEPT. FISHERIES & OCEANS - SMITHERS. PERSONAL COMMUNICATION AND SUBDISTRICT FILES.
LOCATION: S DFO - SUBDISTRICT (INCLUDED IN REF. NO)
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-148

AUTHOR: HAZELWOOD, G.
DESCRIPTION: HAZELWOOD, G.. DEEP CREEK HATCHERY MANAGER. PERSONAL COMMUNICATION.
LOCATION: PP SEP - DEEP CREEK HATCHERY - TERRACE
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-156

AUTHOR: O'NEILL, M.
DESCRIPTION: O'NEILL, M.. TOBOGGAN CREEK HATCHERY MANAGER. PERSONAL COMMUNICATION.
LOCATION: SS CEDP/MOEP TOBOGGAN CREEK HATCHERY - SMITHERS
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-157

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: DIGITIZED GRADIENT DATA BY D.R.SYSTEMS LTD. FOR F. & W.B., B.C. MIN. OF ENVIRONMENT, VICTORIA, B.C.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: GA GRADIENT

REFERENCE NO: 4D-158

AUTHOR: JANTZ, L., B. ROSENBERGER, AND S. HILDEBRANDT
DESCRIPTION: SALMON ESCAPEMENT AND TIMING DATA FOR STATISTICAL AREA 4 OF THE NORTH COAST OF B.C., 1ST EDITION, 1989. DEPT. OF FISHERIES AND OCEANS, PRINCE RUPERT, B.C.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AO ALL SALMON M MIGRATION S SPawning

REFERENCE NO: 4D-160

AUTHOR: BUSTARD, D. & ASSOCIATES
DESCRIPTION: ASSESSMENT OF RAINBOW TROUT RECRUITMENT FROM STREAMS TRIBUTARY TO BABINE LAKE, 1989. REPORT FOR B.C. MINISTRY OF ENVIRONMENT, SMITHERS.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING PY PHYSICAL HABITAT
RB RAINBOW TROUT

REFERENCE NO: 4D-161

AUTHOR: BUSTARD, D. AND ASSOCIATES
DESCRIPTION: SUTHERLAND RIVER RAINBOW TROUT RADIO TELEMETRY STUDIES. 1989. TYPED REPORT FOR B.C. MINISTRY OF ENVIRONMENT, SMITHERS, B.C.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING PS POPULATION SAMPLING PY PHYSICAL HABITAT
RB RAINBOW TROUT

REFERENCE NO: 4D-163

AUTHOR: PENDRAY, T.
DESCRIPTION: SUMMARY OF JUVENILE COHO SAMPLING ON THE UPPER BULKLEY AND MORICE RIVER SYSTEMS. 1987 & 1988. UNPUBLISHED REPORT AND DATA. DEPT. OF FISHERIES AND OCEANS. PRINCE RUPERT, B.C.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CO COHO FS FISH SAMPLING HS HABITAT SAMPLING

REFERENCE NO: 4D-165

AUTHOR: SHIRVELL, DR. C.
DESCRIPTION: 1990. MEMO RE: 1990 FISH SAMPLING IN THE SUSTUT/BEAR SYSTEM BY DEPT. FISHERIES AND OCEANS, SCIENCE BRANCH, PACIFIC BIOLOGICAL STATION, NANAIMO.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS:

REFERENCE NO: 6N- 28

AUTHOR: S.H.I.P. ENVIRONMENTAL CONSULTANTS LTD.
DESCRIPTION: HARDING, E.A.; DE MARCO R.. AIR PHOTO ANALYSIS, TOPOGRAPHIC MAP DIGITIZING, AND GENERAL COMMENTS.
LOCATION: NA NOT APPLICABLE
KEYWORDS: MO MORPHOLOGY OB OBSTRUCTIONS PY PHYSICAL HABITAT

REFERENCE NO: 28A- 18

AUTHOR: DFO.
DESCRIPTION: SALMON ESCAPEMENT DATA SYSTEM (SEDS); PACIFIC BIOLOGICAL STATION; NANAIMO.
LOCATION: J DFO - PACIFIC BIOLOGICAL STATION - NANAIMO
KEYWORDS: CH CHINOOK CN CHUM CO COHO
PK PINK S SPawning SK SOCKEYE

ALPHABETIC BIBLIOGRAPHY

REFERENCE LIST
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Page: 1

REFERENCE NO: 4D- 80

AUTHOR: ANON
DESCRIPTION: SUMMARY OF SALMON STUDIES CONDUCTED ON NECHAKO / MORICE / NANIKA R. SYSTEMS RELATIVE TO PROPOSED KEMANO II POWER DEVELOPMENT. VOLUME 1. 1979. I.P.S.F.C.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: AD ALL SALMON DA DAMS PS POPULATION SAMPLING

REFERENCE NO: 4D- 81

AUTHOR: ANON
DESCRIPTION: LIMNOLOGY OF MORICE LAKE. VOLUME 4. 1979. I.P.S.F.C.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING PS POPULATION SAMPLING

REFERENCE NO: 4D- 82

AUTHOR: ANON
DESCRIPTION: SALMON STUDIES OF NANIKA AND MORICE R. AND MORICE LAKE. VOLUME 5. 1979. I.P.S.F.C.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: AD ALL SALMON DA DAMS FS FISH SAMPLING PS POPULATION SAMPLING

REFERENCE NO: 4D- 85

AUTHOR: ANON
DESCRIPTION: THE BABINE LAKE SALMON DEVELOPMENT PROGRAM. 1968. F.R.B.C. REPORT.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: EN ENHANCEMENT S SPAWNING SK SOCKEYE

REFERENCE NO: 4D-132

AUTHOR: ANON
DESCRIPTION: FISH SAMPLING INFORMATION FOR THE GOSWELL CREEK WATERSHED. OCTOBER 1980. F.& W.B. FISHERIES RESOURCE MAP. 1:50,000 SCALE.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CH CHINOOK CO COHO CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
RB RAINBOW TROUT

REFERENCE NO: 4D-133

AUTHOR: ANON
DESCRIPTION: FISH SAMPLING INFORMATION FOR THE MORRISON LAKE WATERSHED. OCTOBER 1980. F.& W.B. FISHERIES RESOURCES MAP. 1:50,000 SCALE.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CH CHINOOK CO COHO FS FISH SAMPLING
HS HABITAT SAMPLING RB RAINBOW TROUT SK SOCKEYE

REFERENCE NO: 4D- 46

AUTHOR: ANON.
DESCRIPTION: ASSESSMENT OF THE IMPACT OF THE KEMANO II PROPOSAL ON THE FISH AND WILDLIFE RESOURCES OF THE NANIKA-KIDPRICE AND MORICE SYSTEMS. 1979. M.O.E. F.& W.B. HABITAT PROTECTION SECTION REPORT. 124 PP.
LOCATION: H MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: DA DAMS FS FISH SAMPLING HS HABITAT SAMPLING
PS POPULATION SAMPLING PY PHYSICAL HABITAT WM WATER WITHDRAWAL

REFERENCE NO: 4D- 53

AUTHOR: ANON.
DESCRIPTION: MORRISON RIVER CROSSING - HOUSTON FOREST PRODUCTS LTD. JUNE 1982. D.F.O. LETTER TO G. STAHL, M.O.F. HOUSTON, B.C. FILE # 5915-121-50-3
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: EN ENHANCEMENT FO FORESTRY LD LINEAR DEVELOPMENT

REFERENCE NO: 4D- 54

AUTHOR: ANON.
DESCRIPTION: MEMORANDA AND LETTERS. VARIOUS DATES AND AUTHORS. BABINE RIVER TRIBUTARIES FILE. DFO HABITAT MANAGEMENT UNIT, PRINCE RUPERT.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: EN ENHANCEMENT SK SOCKEYE

REFERENCE NO: 4C- 92

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: SKEENA RIVER LAKE MANAGEMENT FILES. B.C. MINISTRY OF ENVIRONMENT, SMITHERS, B.C.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES AD ALL SALMON CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
KO KOKANEE MW ROCKY MOUNTAIN WHITEFISH PY PHYSICAL HABITAT
RB RAINBOW TROUT ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 4D- 48

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: BRITISH COLUMBIA RAILWAY DEASE LAKE EXTENSION 1984 ENVIRONMENTAL INSPECTION. JANUARY 1984. B.C. PLANNING & ASSESSMENT BRANCH TYPED REPORT.36 PP.
LOCATION: M MOE - PLANNING AND ASSESSMENT BRANCH - VICTORIA
KEYWORDS: LD LINEAR DEVELOPMENT LU LAND USE WJ WATER USE

REFERENCE NO: 4D- 92

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: SKEENA RIVER LAKE MANAGEMENT FILES. VARIOUS AUTHORS AND DATES. B.C. MIN. OF ENVIRONMENT, SMITHERS, B.C.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES AD ALL SALMON CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
KO KOKANEE MW ROCKY MOUNTAIN WHITEFISH PY PHYSICAL HABITAT
RB RAINBOW TROUT ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 4D-102

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: B. CHUDYK, R. TETRAULT, G. SHULTZE. M.O.E. FISHERIES BRANCH PERSONNEL - SMITHERS. PERSONAL COMMUNICATIONS.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-157

AUTHOR: B.C. MIN. OF ENVIRONMENT
DESCRIPTION: DIGITIZED GRADIENT DATA BY D.R.SYSTEMS LTD. FOR F.& W.B., B.C. MIN. OF ENVIRONMENT, VICTORIA, B.C.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: GA GRADIENT

REFERENCE NO: 4D- 22

AUTHOR: B.C. RESOURCE ANALYSIS BRANCH
DESCRIPTION: AQUATICS BIOPHYSICAL MAPS - 1:50000. MAPS-B.C., VICTORIA, B.C.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: AF ALL SPECIES FS FISH SAMPLING HS HABITAT SAMPLING
OB OBSTRUCTIONS PY PHYSICAL HABITAT

REFERENCE NO: 4D- 19

AUTHOR: BALL, K.; HARDING, E.A.;
DESCRIPTION: AN INVENTORY OF THE STREAMS IN THE GRASSHAM, CAMSELL AND OGSTON LAKE SYSTEM. DECEMBER 1974. F.& W.B. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: HS HABITAT SAMPLING PY PHYSICAL HABITAT

REFERENCE NO: 4D- 59

AUTHOR: BEREZAY, G.
DESCRIPTION: 1979 COHD SURVEY OF THE MORICE SYSTEM OCTOBER 17, 1979 TO OCTOBER 23, 1979. D.F.O. MEMORANDUM TO R. KADOWAKI. FILE # 5903-85-M391.8 PP.
LOCATION: H OFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CO COHD FS FISH SAMPLING HS HABITAT SAMPLING
PY PHYSICAL HABITAT

REFERENCE NO: 4D-103

AUTHOR: BUSTARD, D.
DESCRIPTION: FISHERIES CONSULTANT. DAVE BUSTARD & ASSOCIATES. SMITHERS, B.C. PERSONAL COMMUNICATION.
LOCATION: NA NOT APPLICABLE
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D-112

AUTHOR: BUSTARD, D.
DESCRIPTION: ASSESSMENT OF BENTHIC INVERTEBRATE AND JUVENILE FISH POPULATIONS IN FOXY AND BUCK CREEKS, SEPTEMBER 1984, OCTOBER 1984, DAVID BUSTARD & ASSOCIATES REPORT FOR EQUITY SILVER MINES. 26 PP AND APPENDICES.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: FS FISH SAMPLING PY PHYSICAL HABITAT

REFERENCE NO: 4D-113

AUTHOR: BUSTARD, D.
DESCRIPTION: 1983 INVESTIGATIONS OF ADULT PINK SALMON IN THE TELKWA RIVER. OCTOBER 1983. READ ENVIRONMENTAL & PLANNING ASSOCIATES LTD. REPORT. 11 PP AND APPENDICES.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: PK PINK S SPAWNING

REFERENCE NO: 4D-114

AUTHOR: BUSTARD, D.
DESCRIPTION: AQUATIC RESOURCE ASSESSMENT OF THE TELKWA COAL PROJECT 1984 STUDIES. FEBRUARY 1985. DAVID BUSTARD & ASSOCIATES REPORT FOR CROWS NEST RESOURCES. 109 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING MI MINING
PS POPULATION SAMPLING PY PHYSICAL HABITAT

REFERENCE NO: 4D-160

AUTHOR: BUSTARD, D. & ASSOCIATES
DESCRIPTION: ASSESSMENT OF RAINBOW TROUT RECRUITMENT FROM STREAMS TRIBUTARY TO BABINE LAKE. 1989. REPORT FOR B.C. MINISTRY OF ENVIRONMENT, SMITHERS.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING PY PHYSICAL HABITAT
RB RAINBOW TROUT

REFERENCE NO: 4D-161

AUTHOR: BUSTARD, D. AND ASSOCIATES
DESCRIPTION: SUTHERLAND RIVER RAINBOW TROUT RADIO TELEMETRY STUDIES. 1989. TYPED REPORT FOR B.C. MINISTRY OF ENVIRONMENT, SMITHERS, B.C.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING PS POPULATION SAMPLING PY PHYSICAL HABITAT
RB RAINBOW TROUT

REFERENCE NO: 4D-20

AUTHOR: CARNICHAEL, N.B.;
DESCRIPTION: AN INVENTORY OF THE PINKUT WATERSHED. NOVEMBER 1977. TYPED REPORT. 231 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING KD KOKANEE
PY PHYSICAL HABITAT RB RAINBOW TROUT

REFERENCE NO: 4D-106

AUTHOR: CARSWELL, R.
DESCRIPTION: AN INVENTORY OF THAUTIL RIVER AND TRIBUTARIES. FEBRUARY 1979. F. & W.B. TYPED REPORT. 26 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO DV DOLLY VARDEN CHAR FS FISH SAMPLING
HS HABITAT SAMPLING NW ROCKY MOUNTAIN WHITEFISH PY PHYSICAL HABITAT
RB RAINBOW TROUT

REFERENCE NO: 4D-107

AUTHOR: CARSWELL, R.
DESCRIPTION: AN INVENTORY OF GOSMELL CREEK AND TRIBUTARIES. FEBRUARY 1979. F. & W.B. TYPED REPORT.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING

REFERENCE NO: 4D-105

AUTHOR: CARSWELL, R.; WITT, A.
DESCRIPTION: AN INVENTORY OF THE NANIKA RIVER AND TRIBUTARIES (BETWEEN KIDPRICE LAKE AND MORICE LAKE). FEBRUARY 1979. F. & W.B. TYPED REPORT.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING

REFERENCE NO: 4D- 84

AUTHOR: CLARKE, W.C.; SMITH, H.D.
DESCRIPTION: OBSERVATIONS ON THE MIGRATION OF SOCKEYE SALMON FRY IN THE LOWER BABINE R.. 1972. J.F.R.B.C. 29:151-159.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: M MIGRATION PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 4D- 75

AUTHOR: CLEUGH, T.R.; LAWLEY, B.C.
DESCRIPTION: THE LIMNOLOGY OF MORICE L. RELATIVE TO THE PROPOSED KEMANO II POWER DEVELOPMENT. 1979. D.F.O. TYPED REPORT.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: DA DAMS FS FISH SAMPLING HS HABITAT SAMPLING
PS POPULATION SAMPLING

REFERENCE NO: 28A- 18

AUTHOR: DFO.
DESCRIPTION: SALMON ESCAPEMENT DATA SYSTEM (SEDS); PACIFIC BIOLOGICAL STATION; NANAIMO.
LOCATION: J DFO - PACIFIC BIOLOGICAL STATION - NANAIMO
KEYWORDS: CH CHIMOOK CM CHUM CO COHO
PK PINK S SPAWNING SK SOCKEYE

REFERENCE NO: 4D- 76

AUTHOR: ENVIROCON LTD
DESCRIPTION: KEMANO II HYDROELECTRIC DEVELOPMENT ENVIRONMENTAL IMPACT STUDY PHASE 1 OVERVIEW AND STUDY DESIGN. FEBRUARY 1979.
ENVIROCON LTD. PUBLICATION.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AF ALL SPECIES DA DAMS

REFERENCE NO: 4D- 77

AUTHOR: ENVIROCON LTD
DESCRIPTION: MORICE RIVER CHIMOOK SPawner ENUMERATION STUDY, 1979. MARCH 1980. ENVIROCON LTD. PUBLICATION.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHIMOOK PS POPULATION SAMPLING S SPAWNING

REFERENCE NO: 4D- 66

AUTHOR: ENVIROCON LTD.
DESCRIPTION: KEMANO COMPLETION HYDROELECTRIC DEVELOPMENT BASELINE ENVIRONMENTAL STUDIES VOLUME 4 FISH RESOURCES: MORICE RIVER
SYSTEM. SEPTEMBER 1981. ENVIROCON LTD. PUBLICATION FOR ALCAN.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHIMOOK CO COHO DA DAMS
FS FISH SAMPLING HS HABITAT SAMPLING PK PINK
PS POPULATION SAMPLING PY PHYSICAL HABITAT SK SOCKEYE
ST STEELHEAD

REFERENCE NO: 4D- 17

AUTHOR: GRAHAM, C.C.; MCINDOE, R.A.; MEYERS, D.N.;
DESCRIPTION: BIOPHYSICAL STREAM SURVEY OF SEVERAL STREAMS IN THE BABINE - WILKITKWA AREA. FISHERIES & MARINE SERVICE DATA
REPORT. SERIES PAC/D-76-3.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FO FORESTRY FS FISH SAMPLING HS HABITAT SAMPLING
MI MINING PY PHYSICAL HABITAT SK SOCKEYE

REFERENCE NO: 4D- 58

AUTHOR: Groat, A.M.
DESCRIPTION: PROPOSED FLOOD CONTROL WORK, BUCK CREEK, B.C. JANUARY 1973. D.F.O. LETTER TO R.N. PALMER. 2 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHIMOOK CO COHO EN ENHANCEMENT
PK PINK

REFERENCE NO: 4D- 86

AUTHOR: Groot, C.; SIMPSON, K.S.; TURNER, C.E.
DESCRIPTION: ANALYSIS OF ULTRASONIC TRACKING RECORDS OF ADULT SOCKEYE SALMON MIGRATION IN BABINE LAKE. SEPTEMBER 1972. F.R.B.C.
TECHNICAL REPORT 335.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: EN ENHANCEMENT M MIGRATION PS POPULATION SAMPLING
S SPAWNING SK SOCKEYE

REFERENCE NO: 40- 78

AUTHOR: HALLAM, R.L.; KUSSAT, R.H.; JONES, M.
DESCRIPTION: ENVIRONMENTAL IMPACT INFORMATION OF THE PROPOSED EQUITY MINING CAPITAL LTD. DEVELOPMENT NEAR HOUSTON, B.C.. JUNE 1975.E.P.S. POLLUTION ABATEMENT BRANCH. M.S. REPORT 75-1
LOCATION: BB EPS - REGIONAL OFFICE - VANCOUVER
KEYWORDS: CO COHO ED EFFLUENT DISCHARGE MI MINING

REFERENCE NO: 40- 99

AUTHOR: HANCOCK, M.J.; LEANEY-EAST A.J.; MARSHALL, D.E.;
DESCRIPTION: CATALOGUE OF SALMON STREAMS AND SPawning ESCAPEMENTS OF STATISTICAL AREA 4 (LOWER SKEENA RIVER) INCLUDING COASTAL STREAMS. CAN. DATA REPORT OF FISHERIES AND AQUATIC SCIENCES NO.395 APRIL 1983.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AO ALL SALMON M MIGRATION PY PHYSICAL HABITAT
S SPawning

REFERENCE NO: 40-100

AUTHOR: HANCOCK, M.J.; LEANEY-EAST, A.J.; MARSHALL, D.E.
DESCRIPTION: CATALOGUE OF SALMON STREAMS AND SPawning ESCAPEMENTS OF STATISTICAL AREA 4 (UPPER SKEENA RIVER), APRIL 1983. CANADIAN DATA REPORT OF FISHERIES & AQUATIC SCIENCES. NO. 394.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AO ALL SALMON M MIGRATION PY PHYSICAL HABITAT
S SPawning

REFERENCE NO: 40-117

AUTHOR: HARDER, P.A. & ASSOCIATES
DESCRIPTION: ENHANCEMENT POTENTIAL FOR MORICE SYSTEM STEELHEAD TROUT STOCKS. SEPTEMBER 1983. P.A. HARDER & ASSOCIATES REPORT. 69 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: EN ENHANCEMENT ST STEELHEAD

REFERENCE NO: 40- 79

AUTHOR: HARDING, D.R.
DESCRIPTION: THE STATUS OF THE NANIKA - MORICE SOCKEYE SALMON POPULATION AND THE MORICETOWN NATIVE FOOD FISHERY IN 1967 AND 1968. 1969. D.F.O.TYPED REPORT.
LOCATION: LL SIMON FRASER UNIVERSITY - VANCOUVER
KEYWORDS: M MIGRATION PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 40-129

AUTHOR: HATLEVIK, S.P.
DESCRIPTION: TOBOGGAN CREEK: A REPORT ON THE RESULTS OF FIELD WORK UNDERTAKEN BY THE BULKLEY VALLEY STEELHEAD CLUB AUGUST - OCTOBER, 1978.NOVEMBER 1979. F.& W.B. SKEENA REG. FISHERIES PROGRESS REPORT NO. SK-20. 24 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO EN ENHANCEMENT PK PINK
PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40-131

AUTHOR: HATLEVIK, S.P.
DESCRIPTION: A FISHERIES INVENTORY OF THE GOSWELL CREEK WATERSHED. APRIL 1981. F.& W.B. SKEENA FISHERIES REPORT NO. 80-6. 29 PP. AND APPENDICES.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
EN ENHANCEMENT FO FORESTRY FS FISH SAMPLING
HS HABITAT SAMPLING ST STEELHEAD

REFERENCE NO: 40- 47

AUTHOR: HAYWARD & ASSOCIATES LTD.
DESCRIPTION: PRELIMINARY ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT OF THE STIKINE / ISKUT TRANSMISSION SYSTEM. JULY 1982.IAN HAYWARD & ASSOCIATES LTD. VOLUMES 1 - 4.
LOCATION: M MOE - PLANNING AND ASSESSMENT BRANCH - VICTORIA
KEYWORDS: AO ALL SALMON DA DAMS FS FISH SAMPLING
LD LINEAR DEVELOPMENT LU LAND USE TR TROUT
WJ WATER USE

REFERENCE NO: 40-148

AUTHOR: HAZELWOOD, G.
DESCRIPTION: HAZELWOOD, G.. DEEP CREEK HATCHERY MANAGER. PERSONAL COMMUNICATION.
LOCATION: PP SEP - DEEP CREEK HATCHERY - TERRACE
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 40-158

AUTHOR: JANTZ, L., B. ROSENBERGER, AND S. HILDEBRANDT
DESCRIPTION: SALMON ESCAPEMENT AND TIMING DATA FOR STATISTICAL AREA 4 OF THE NORTH COAST OF B.C., 1ST EDITION, 1989. DEPT. OF FISHERIES AND OCEANS, PRINCE RUPERT, B.C.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: AO ALL SALMON M MIGRATION S SPawning

REFERENCE NO: 40- 87

AUTHOR: JORDAN, F.P.; SMITH, H.D.
DESCRIPTION: SUMMARY OF SALMON COUNTS AND OBSERVATIONS FROM THE BABINE RIVER COUNTING FENCE 1967-71. AUGUST 1972. F.R.B.C. TECHNICAL REPORT 331.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 40- 83

AUTHOR: KUSSAT, R.; PETERSON, K.
DESCRIPTION: AN ASSESSMENT OF THE EFFECTS ON THE MORICE AND BULKLEY R. SYSTEMS OF A PULP MILL AT HOUSTON, B.C.. APRIL 1972. D.F.O. TYPED REPORT.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: AO ALL SALMON ED EFFLUENT DISCHARGE IP INDUSTRIAL PROCESSING

REFERENCE NO: 40-115

AUTHOR: LEVY, D.A.; HALL, K.J.; YESAKI, I.
DESCRIPTION: LOG TRANSPORTATION IMPACT IN BABINE LAKE, PHASE II 1984. COMPARISON OF CONDITIONS IN ACTIVE AND HISTORICAL OPERATING SITES. JANUARY 1985. WESTWATER RESEARCH CENTRE (UBC) PUBLICATION. 160 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FO FORESTRY PS POPULATION SAMPLING SK SOCKEYE WQ WATER QUALITY

REFERENCE NO: 40- 44

AUTHOR: LOUGH, M.J.
DESCRIPTION: COMMERCIAL INTERCEPTIONS OF STEELHEAD TROUT IN THE SKEENA RIVER - RADIO TELEMETRY STUDIES OF STOCK IDENTIFICATION AND RATES OF MIGRATION. 1981. B.C.FISH & WILDLIFE BR. SKEENA FISHERIES REPORT NO. 80-03 (S.E.P.). 34 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: EN ENHANCEMENT M MIGRATION PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40-121

AUTHOR: LOUGH, M.J.
DESCRIPTION: M. LOUGH. M.O.E. FISHERIES BRANCH PERSONNEL - SMITHERS. PERSONAL COMMUNICATION.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT

REFERENCE NO: 40- 88

AUTHOR: MCCART, P.J.
DESCRIPTION: A POLYMORPHIC POPULATION OF O. MERKA AT BABINE L. INVOLVING ANADROMOUS (SOCKEYE) AND NON-ANADROMOUS (KOKANE). 1971.U.B.C. PH.D. THESIS.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: FS FISH SAMPLING KO KOKANE PS POPULATION SAMPLING SK SOCKEYE

REFERENCE NO: 40- 52

AUTHOR: McNALLY, J.W.C.; NIELSEN, G.O.; SCHOUMENBURG, W.J.
DESCRIPTION: ALLEVIATION OF OBSTRUCTION AT MANIKA RIVER FALLS LOCATED AT OUTLET OF KIDPRICE LAKE. MAY 1984. GOV. OF CANADA MEMORANDUM TO A.F. LILL / ENHANCEMENT OPPORTUNITIES COMMITTEE. FILE #5903-85-NH1. 10 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO EN ENHANCEMENT SK SOCKEYE

REFERENCE NO: 40- 13

AUTHOR: MARVER, D.;
DESCRIPTION: AGE AND SIZE OF STEELHEAD IN THE BABINE RIVER, BRITISH COLUMBIA. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING ST STEELHEAD

REFERENCE NO: 40- 89

AUTHOR: MARVER, D.W.
DESCRIPTION: PRIMARY PRODUCTIVITY IN THE BABINE LAKE SYSTEM, B.C.. 1967. J.F.R.B.C. 24(10),1967.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: HS HABITAT SAMPLING PY PHYSICAL HABITAT SK SOCKEYE
WQ WATER QUALITY

REFERENCE NO: 40-156

AUTHOR: O'NEILL, M.
DESCRIPTION: O'NEILL, M.. TOBBOGGAN CREEK HATCHERY MANAGER. PERSONAL COMMUNICATION.
LOCATION: SS CEDP/MOEP TOBBOGGAN CREEK HATCHERY - SMITHERS
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4A-159

AUTHOR: PENDRAY, T.
DESCRIPTION: T. PENDRAY. HABITAT INVENTORY BIOLOGIST. DEPT. OF FISHERIES AND OCEANS, PRINCE RUPERT, B.C. PERSONAL COMMUNICATION AND MISCELLANEOUS FISH SAMPLING.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS:

REFERENCE NO: 4D-104

AUTHOR: PENDRAY, T.
DESCRIPTION: BABINE / NICHYESKWA / MILKITKWA SURVEY - AUGUST/85 SUMMARY OF FISH SAMPLING RESULTS. MARCH 1986. D.F.O. TYPED REPORT. 5 PP. AND MAP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
FS FISH SAMPLING NM ROCKY MOUNTAIN WHITEFISH RB RAINBOW TROUT
SK SOCKEYE

REFERENCE NO: 4D-163

AUTHOR: PENDRAY, T.
DESCRIPTION: SUMMARY OF JUVENILE COHO SAMPLING ON THE UPPER BULKLEY AND MORICE RIVER SYSTEMS, 1987 & 1988. UNPUBLISHED REPORT AND DATA. DEPT. OF FISHERIES AND OCEANS. PRINCE RUPERT, B.C.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CO COHO FS FISH SAMPLING HS HABITAT SAMPLING

REFERENCE NO: 4D- 10

AUTHOR: PINSENT, M.E.;
DESCRIPTION: A REPORT REGARDING THE SUITABILITY OF OWEN CREEK, B.C., AS A POTENTIAL SITE FOR THE CONSTRUCTION OF ARTIFICIAL SPAWNING FACILITIES FOR STEELHEAD TROUT. NOV.1969. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING M MIGRATION
PV PHYSICAL HABITAT S SPAWNING

REFERENCE NO: 4D- 14

AUTHOR: PINSENT, M.E.;
DESCRIPTION: REPORT ON THE STEELHEAD TROUT (SALMO GAIRDNERI) OF BABINE RIVER, BRITISH COLUMBIA. JUNE 1969. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 15

AUTHOR: PINSENT, M.E.;
DESCRIPTION: INCIDENTAL TAG RETURNS FROM A 1970 STEELHEAD TAGGING PROGRAM ON THE BABINE RIVER, B.C.. JANUARY 1973. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40- 16

AUTHOR: PINSENT, M.E.;
DESCRIPTION: POPULATION SIZE AND SOME OTHER CHARACTERISTICS OF THE STEELHEAD IN THE BABINE RIVER, BRITISH COLUMBIA. FEBRUARY 1971.
TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 40- 1

AUTHOR: PINSENT, M.E.; CHUDYK, W.E.
DESCRIPTION: AN OUTLINE OF THE STEELHEAD OF THE SKEENA RIVER SYSTEM (AN INITIAL BASIS FOR MANAGEMENT). F.& W.B. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: AO ALL SALMON CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
HS HABITAT SAMPLING PS POPULATION SAMPLING PY PHYSICAL HABITAT
ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 40-136

AUTHOR: READ & ASSOCIATES LTD.
DESCRIPTION: TELKWA PROJECT STAGE I APPLICATION. DECEMBER 1983. READ ENVIRONMENTAL AND PLANNING ASSOCIATES LTD. REPORT FOR CROWS
NEST RESOURCES AND B.C. MIN. ENERGY, MINES & PETROLEUM RESOURCES. 156 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
HS HABITAT SAMPLING LU LAND USE MI MINING
NW ROCKY MOUNTAIN WHITEFISH PK PINK PY PHYSICAL HABITAT
ST STEELHEAD WQ WATER QUALITY

REFERENCE NO: 40- 12

AUTHOR: REMINGTON, D.; AMOS, J.;
DESCRIPTION: MAXAM CREEK. AUGUST 1974. STREAM SURVEY FORM.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: DV DOLLY VARDEN CHAR FS FISH SAMPLING HS HABITAT SAMPLING
PY PHYSICAL HABITAT RB RAINBOW TROUT

REFERENCE NO: 6M- 28

AUTHOR: S.H.I.P. ENVIRONMENTAL CONSULTANTS LTD.
DESCRIPTION: HARDING, E.A.; DE MARCO R.. AIR PHOTO ANALYSIS, TOPOGRAPHIC MAP DIGITIZING, AND GENERAL COMMENTS.
LOCATION: NA NOT APPLICABLE
KEYWORDS: MO MORPHOLOGY OB OBSTRUCTIONS PY PHYSICAL HABITAT

REFERENCE NO: 40-139

AUTHOR: SEKARAK, A.G.; TAYLOR, J.A.; STALLARD, M.
DESCRIPTION: FISHERIES INVESTIGATIONS IN RELATION TO THE MOUNT KLAPPAN COAL PROJECT FINAL REPORT. 1984. L.G.L. LTD. REPORT FOR
GULF CANADA RESOURCES.66 PP. AND APPENDICES.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING LU LAND USE

REFERENCE NO: 40- 64

AUTHOR: SHEPHERD, B.G.
DESCRIPTION: SALMON STUDIES ON NANIKA AND MORICE RIVERS AND MORICE LAKE RELATIVE TO THE PROPOSED KEMANO II DEVELOPMENT. VOLUME 5.
FEBRUARY 1979.DEPT. OF FISHERIES AND ENVIRONMENT PUBLICATION.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO DA DAMS
FS FISH SAMPLING HS HABITAT SAMPLING M MIGRATION
PK PINK PS POPULATION SAMPLING PY PHYSICAL HABITAT
R REARING S SPAWNING SK SOCKEYE

REFERENCE NO: 40- 71

AUTHOR: SHEPHERD, B.G.
DESCRIPTION: UPPER SKEENA CHINOOK STOCKS: EVALUATION OF THE BEAR - SUSTUT, MORICE AND LOWER BABINE STOCKS. 1975. FISHERIES &
MARINE SERVICE. UNPUB. MANUSCRIPT.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: CH CHINOOK EN ENHANCEMENT PS POPULATION SAMPLING

REFERENCE NO: 4D-165

AUTHOR: SHIRVELL, DR. C.
DESCRIPTION: 1990. MEMO RE: 1990 FISH SAMPLING IN THE SJUSTUT/BEAR SYSTEM BY DEPT. FISHERIES AND OCEANS, SCIENCE BRANCH, PACIFIC BIOLOGICAL STATION, NANAIMO.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS:

REFERENCE NO: 4D- 72

AUTHOR: SMITH, H.D.; JORDAN, F.P.
DESCRIPTION: TIMING OF BABINE L. SOCKEYE STOCKS IN THE NORTH-COAST COMMERCIAL FISHERY AS SHOWN BY SEVERAL TAGGINGS AT THE BABINE. 1973.F.R.B.C. TECHNICAL REPORT 41B.
LOCATION: A DFO - REGIONAL LIBRARY - VANCOUVER
KEYWORDS: EN ENHANCEMENT M MIGRATION SK SOCKEYE

REFERENCE NO: 4D- 51

AUTHOR: SMITH, J.L.; BEREZAY, G.F.
DESCRIPTION: BIOPHYSICAL RECONNAISSANCE OF THE MORICE RIVER SYSTEM, 1978-1980. DFO S.E.P. OPERATIONS. TYPED REPORT. 78 PP.
LOCATION: H DFO - NORTH COAST DIVISION - PRINCE RUPERT
KEYWORDS: CH CHINOOK CO COHO EN ENHANCEMENT
FL FLOW FS FISH SAMPLING M MIGRATION
PS POPULATION SAMPLING S SPAWNING TE TEMPERATURE

REFERENCE NO: 4D- 74

AUTHOR: TAKAGI, K.; SMITH, H.D.
DESCRIPTION: TIMING AND RATE OF MIGRATION OF BABINE SOCKEYE STOCKS THROUGH THE SKEEMA AND BABINE R., 1973. F.R.B.C. TECHNICAL REPORT 419.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: M MIGRATION SK SOCKEYE

REFERENCE NO: 4D- 2

AUTHOR: TAYLOR, G.D.
DESCRIPTION: REPORT ON THE PRELIMINARY SURVEY OF THE SKEEMA RIVER DRAINAGE STREAMS. MARCH 1968. F. & W.B. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 9

AUTHOR: TAYLOR, G.D.; SEREDICK, R.W.;
DESCRIPTION: FEEDING HABITS OF SOME SALMONIDS IN THE UPPER MORICE RIVER. SEPTEMBER 1968. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR FS FISH SAMPLING
MW ROCKY MOUNTAIN WHITEFISH RB RAINBOW TROUT ST STEELHEAD

REFERENCE NO: 4D- 11

AUTHOR: TAYLOR, G.D.; SEREDICK, R.W.;
DESCRIPTION: THAJTIL RIVER - DENYS CREEK INVENTORY. AUGUST 1968. TYPED REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: FS FISH SAMPLING HS HABITAT SAMPLING PS POPULATION SAMPLING
PY PHYSICAL HABITAT WQ WATER QUALITY

REFERENCE NO: 4D- 18

AUTHOR: THORNE, F.;
DESCRIPTION: SJUSTUT RIVER. JUNE 1975. STREAM SURVEY FORM.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: HS HABITAT SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 4D- 25

AUTHOR: TREDGER D.
DESCRIPTION: ASSESSMENT OF STEELHEAD ENHANCEMENT OPPORTUNITIES IN THE MORICE RIVER SYSTEM. PROGRESS IN 1980. DECEMBER, 1981. F & W B. TYPED REPORT. 116 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
FS FISH SAMPLING HS HABITAT SAMPLING PS POPULATION SAMPLING
PY PHYSICAL HABITAT RB RAINBOW TROUT ST STEELHEAD

REFERENCE NO: 4D- 26

AUTHOR: TREDGER, C.D.
DESCRIPTION: UPPER BULKLEY RIVER RECONNAISSANCE WITH REFERENCE TO JUVENILE STEELHEAD CARRYING CAPACITY. JUNE 1982. F&W B. TYPED REPORT. 78PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO HS HABITAT SAMPLING
PS POPULATION SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 4D- 29

AUTHOR: TREDGER, C.D.
DESCRIPTION: UPPER BULKLEY RIVER STEELHEAD POPULATION MONITORING. MAY 1983. F.& W.B. TYPED REPORT. 42 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 31

AUTHOR: TREDGER, C.D.
DESCRIPTION: MORICE RIVER - SNORKEL SURVEY. FEBRUARY 1984. FISH HABITAT IMPROVEMENT RECONNAISSANCE REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO DV DOLLY VARDEN CHAR
FS FISH SAMPLING MW ROCKY MOUNTAIN WHITEFISH PK PINK
RB RAINBOW TROUT ST STEELHEAD

REFERENCE NO: 4D- 32

AUTHOR: TREDGER, C.D.
DESCRIPTION: UPPER SKEENA STEELHEAD FRY POPULATION MONITORING. MARCH 1986. STEELHEAD STOCK MONITORING REPORT. B.C. MIN. OF ENVIRONMENT, VICTORIA, B.C.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO PS POPULATION SAMPLING
ST STEELHEAD

REFERENCE NO: 4D- 35

AUTHOR: TREDGER, C.D.
DESCRIPTION: BULKLEY/MORICE STEELHEAD STOCK MONITORING. MARCH 1986. STOCK MONITORING REPORT.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 38

AUTHOR: TREDGER, C.D.
DESCRIPTION: SKEENA BOAT SHOCKING PROGRAM. FEBRUARY 1984. F.& W.B. TYPED REPORT. 55 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO CT CUTTHROAT TROUT
DV DOLLY VARDEN CHAR FS FISH SAMPLING MW ROCKY MOUNTAIN WHITEFISH
PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D- 39

AUTHOR: TREDGER, C.D.
DESCRIPTION: AN EVALUATION OF FISH HABITAT AND FISH POPULATIONS IN TOBOGGAN CREEK, NEAR SMITHERS, RELEVANT TO STEELHEAD ENHANCEMENT OPPORTUNITIES MARCH 1979. F.& W.B. TYPED REPORT. 130 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CO COHO CT CUTTHROAT TROUT DV DOLLY VARDEN CHAR
FS FISH SAMPLING HS HABITAT SAMPLING MW ROCKY MOUNTAIN WHITEFISH
PS POPULATION SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 4D- 41

AUTHOR: TREDGER, C.D.
DESCRIPTION: JUVENILE STEELHEAD POPULATIONS IN THE MORICE RIVER SYSTEM, 1980 TO 1982. DECEMBER 1983. F.& W.B. TYPED REPORT. 137 PP.
LOCATION: M MOE - FISHERIES BRANCH - VICTORIA
KEYWORDS: CH CHINOOK CO COHO HS HABITAT SAMPLING
PS POPULATION SAMPLING PY PHYSICAL HABITAT ST STEELHEAD

REFERENCE NO: 4D-140

AUTHOR: TURNBULL, T.
DESCRIPTION: 1987. FISHERIES OFFICER, DEPT. FISHERIES & OCEANS - SMITHERS. PERSONAL COMMUNICATION AND SUBDISTRICT FILES.
LOCATION: S DFO - SUBDISTRICT (INCLUDED IN REF. NO)
KEYWORDS: AF ALL SPECIES EN ENHANCEMENT PY PHYSICAL HABITAT

REFERENCE NO: 4D- 90

AUTHOR: VROOM, D.R.
DESCRIPTION: AN ATTEMPT TO DETERMINE ABUNDANCE AND DISTRIBUTION OF MIGRATING SKEENA RIVER SALMON STOCKS BY ACOUSTICAL MEANS. 1971. D.F.O. TYPED REPORT.
LOCATION: B DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
KEYWORDS: AD ALL SALMON M MIGRATION PS POPULATION SAMPLING

REFERENCE NO: 4D-120

AUTHOR: WHATELY, M.R.
DESCRIPTION: BABINE STEELHEAD - A FUTURE. JUNE 1978. F.& W.B. SKEENA FISHERIES REPORT NO. 78-2 (S.E.P.). 8 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: EN ENHANCEMENT PS POPULATION SAMPLING ST STEELHEAD

REFERENCE NO: 4D-118

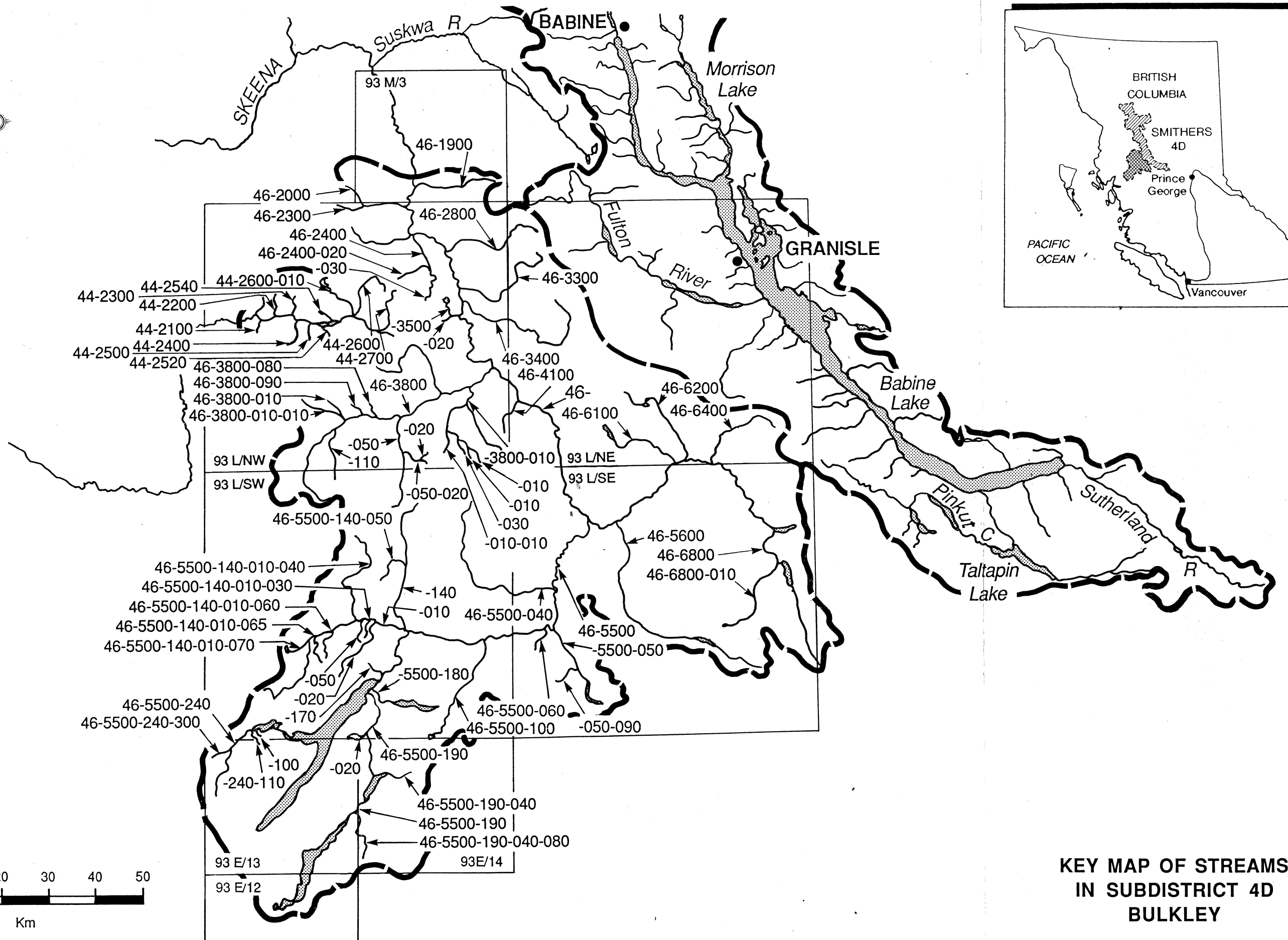
AUTHOR: WILLIAMS, R.A.; STEWART, G.O.; MURRAY, P.R.
DESCRIPTION: JUVENILE SALMONID STUDIES IN THE SUSTUT AND BEAR RIVERS, B.C., 1984. DECEMBER 1985. ENVIROCOM LTD. REPORT FOR D.F.O. 1936/MP 1943.146 PP.
LOCATION: X MOE - REGION 6 - SMITHERS
KEYWORDS: CH CHINOOK CO COHO FS FISH SAMPLING
PK PINK PS POPULATION SAMPLING PY PHYSICAL HABITAT
SK SOCKEYE ST STEELHEAD WQ WATER QUALITY

5.0

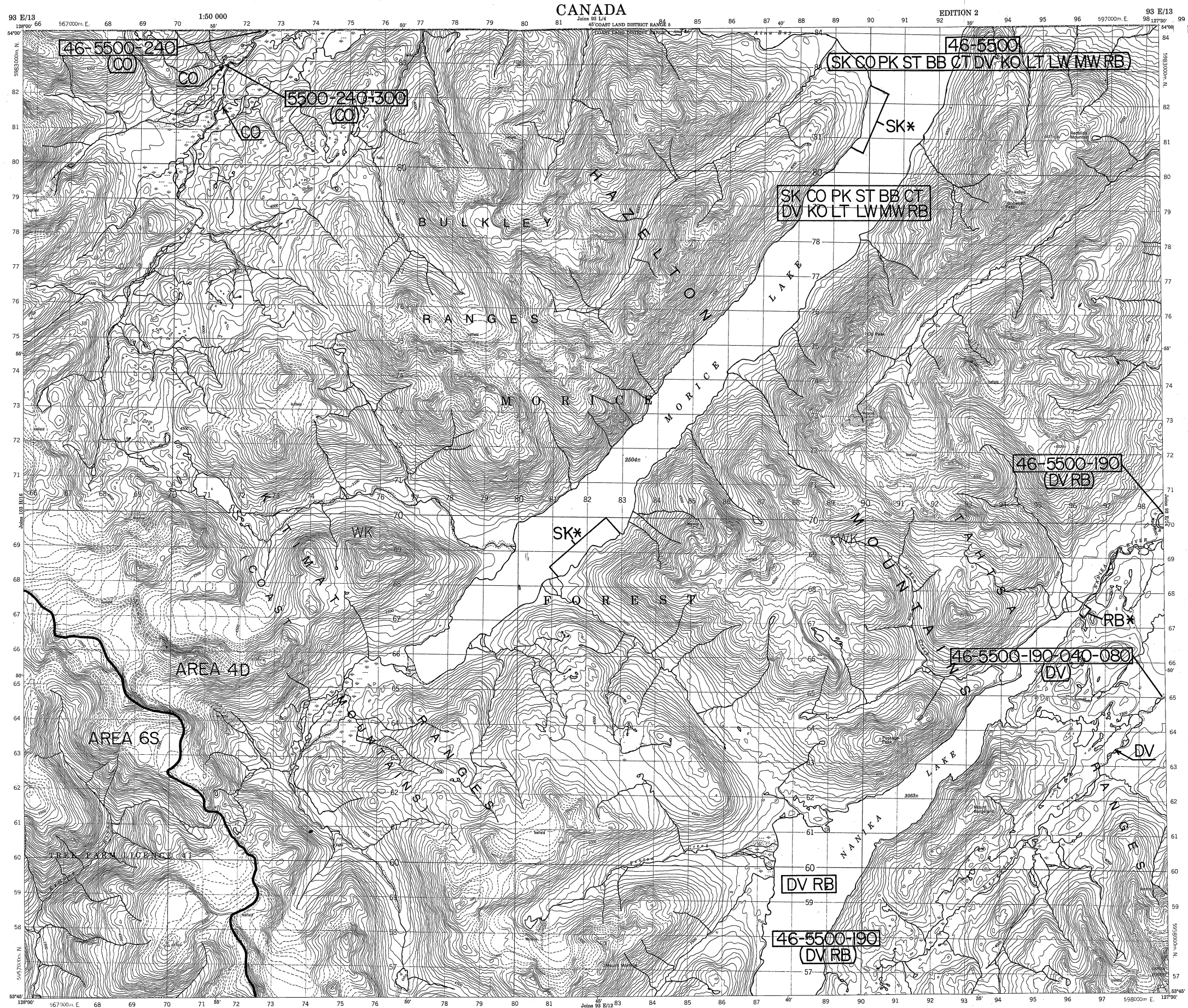
MAPS

This section contains the following Stream Summary Maps:

93E/13	NANIKA LAKE
93E/14	NEWCOMBE LAKE
93L/NW	
93L/NE	
93L/SW	
93L/SE	
93M/03	MORICETOWN



**KEY MAP OF STREAMS
IN SUBDISTRICT 4D
BULKLEY**



DFO/MOEP FISH HABITAT INVENTORY AND INFORMATION PROGRAM
STREAM INFORMATION SUMMARY

91-2900 Watershed Code and Species Summary
 CO CM ST

SPECIES INFORMATION

SK CO PK CM CH species present
 CO ST lower limit of distribution
 CO ST upper limit of distribution
 PK* specific site of spawning

SK* major spawning zone
 CO CO
 CM* upper limit of spawning

OBSTRUCTIONS
 (measurements included where known)

log jam (persistent)
 D = dam
 F = falls (3m high)
 CV = culvert
 BD = beaver dam
 R = rock falls
 C = cascade, chute or canyon (height = 2m, length = 100m)

ENHANCEMENT/MANAGEMENT ACTIVITIES

HY = hatchery
 FW = fishway
 SC = side channel
 CH = spawning channel

WSC0FB003 Water Survey of Canada Gauging Station

300 CO tributary watershed code

SPECIES ABBREVIATION LIST

SK - Sockeye	BS - Bass (general)
CO - Coho	CT - Cutthroat
PK - Pink	DV - Dolly Varden
CM - Chum	KO - Kokanee
CH - Chinook	LT - Lake trout
ST - Steelhead	LW - Lake whitefish
AF - All fish	MW - Mountain whitefish
AO - All salmon	RB - Rainbow
BB - Burbot	TR - Trout (general)

This Stream Information Summary map complements a companion Stream Summary Catalogue, organized by DFO Subdistrict. Maps and files are organized by watershed code.

ONE THOUSAND METRE
 UNIVERSAL TRANSVERSE MERCATOR GRID
 ZONE 9

GRID ZONE DESIGNATION: 9U WK

EXAMPLE OF METHOD USED TO DIVE A REFERENCE TO NEAREST 100 METRES
 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

REFERENCE POINT CHURCH (see above)

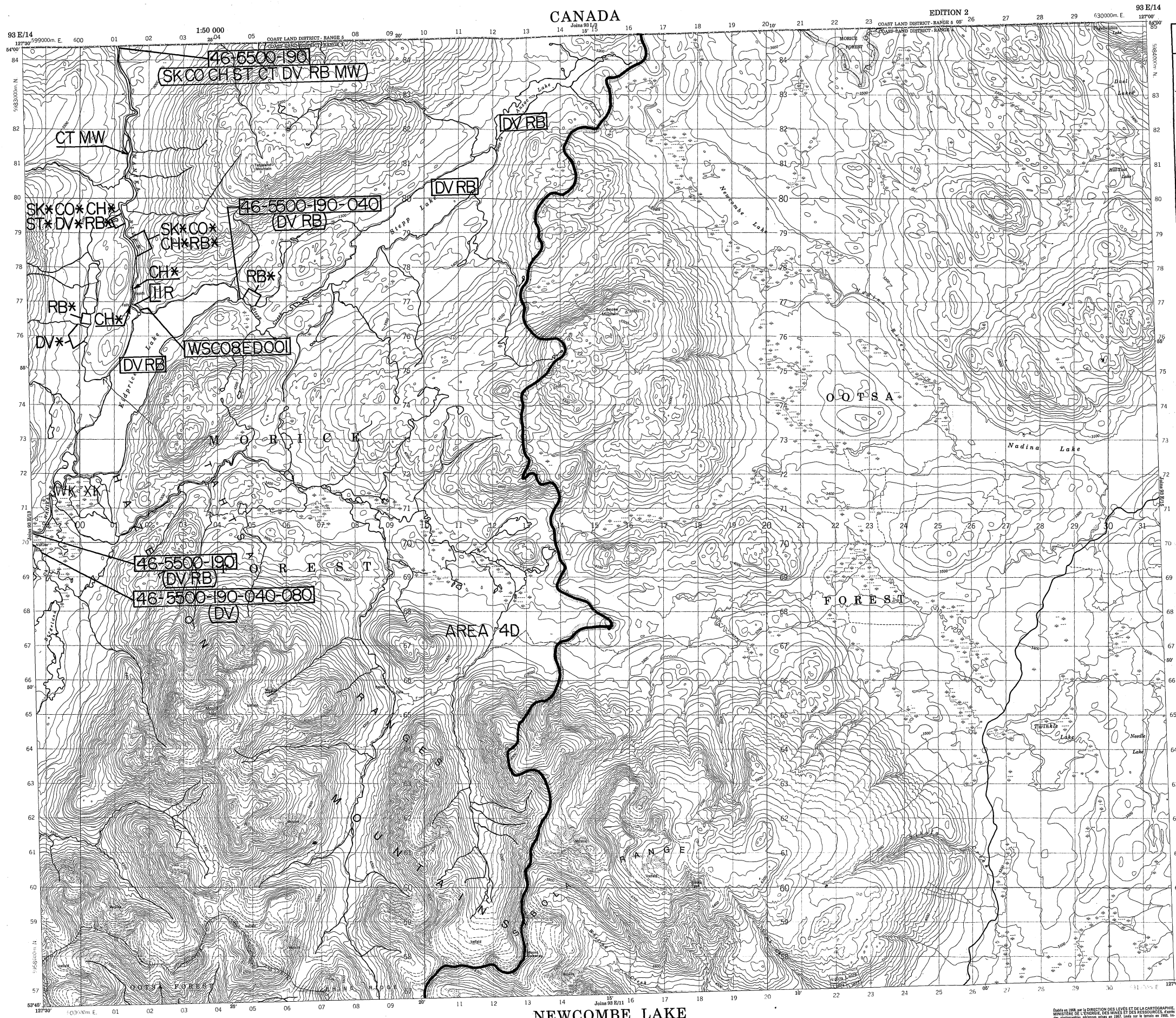
EASTING: Read number on grid line immediately to left of point
 DISTANCE: Measure distance from this line westward to point

NORTHING: Read number on grid line immediately below point
 DISTANCE: Measure distance from this line southward to point

EXAMPLE MILITARY GRID REFERENCE 975084
 Nearest similar grid reference 100 000 metres (about 1/2 mile)

MAR. 90

93 E/13
 EDITION 2



DFO/MOEP FISH HABITAT INVENTORY AND INFORMATION PROGRAM STREAM INFORMATION SUMMARY

91-2900
CO CM ST
Watershed Code and Species Summary

SPECIES INFORMATION

SK CO PK CM CH
species present

CO ST
lower limit of distribution

CO ST
upper limit of distribution

PK*
specific site of spawning

SK*
major spawning zone

CO
CM*
upper limit of spawning

OBSTRUCTIONS
(measurements included where known)

log jam (persistent)

D = dam

F = falls (3m high)

CV = culvert

BD = beaver dam

R = rock falls

CS = cascade, chute or canyon (height = 2m, length = 100m)

ENHANCEMENT/MANAGEMENT ACTIVITIES

HY = hatchery

FW = fishway

SC = side channel

CH = spawning channel

WSC08FB003 Water Survey of Canada Gauging Station

300 CO tributary watershed code

SPECIES ABBREVIATION LIST

SK - Sockeye	BS - Bass (general)
CO - Coho	CT - Cutthroat
PK - Pink	DV - Dolly Varden
CM - Chum	KO - Kokanee
CH - Chinook	LT - Lake trout
ST - Steelhead	LW - Lake whitefish
AF - All fish	MW - Mountain whitefish
AO - All salmon	RB - Rainbow
	TR - Trout (general)

This Stream Information Summary map complements a companion Stream Summary Catalogue, organized by DFO Subdistrict. Maps and files are organized by watershed code.

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR
ZONE 9

GRID ZONE IDENTIFICATION

91U

EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 100 METRES

THE FOLLOWING REFERENCE IS A SUMMARY ONLY METRES NOT REFER TO IN THIS MAP

GRID ZONE	91U
EASTING	97
NORTHING	62
METRES EAST OF GRID ZONE	05
METRES NORTH OF GRID ZONE	04

REFERENCE POINT CHURCH See above

CASTING: Read number on gridline immediately to left of point

EASTING: Read number of report from this line to east of point

NORTHING: Read number on gridline immediately below point

NORTHING: Read number of report from this line to north of point

EXAMPLE MILITARY GRID REFERENCE: 979054

MAR.90

Produced 1979 by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, Ottawa, Ontario, Canada. File No. E-110. File Name: 2901

This map was compiled with aerial photographs taken in 1978 and flown to the scale of 1:100,000.

Contours may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, or your nearest map dealer.

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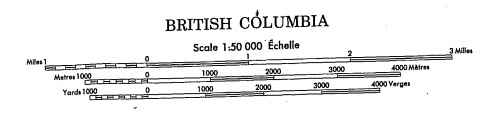
ROADS-ROUTES:
hard surface - paved
hard surface - not paved
ice/snow surface - not paved
cart track - one horse
trail - seasonal
development - suppression

Roads:
loose or stabilized surface, all weather
loose surface, dry weather and
cart track - one horse
trail - seasonal
development - suppression

Roads:
loose or stabilized surface, all weather
loose surface, dry weather and
cart track - one horse
trail - seasonal
development - suppression

Roads:
loose or stabilized surface, all weather
loose surface, dry weather and
cart track - one horse
trail - seasonal
development - suppression

Roads:
loose or stabilized surface, all weather
loose surface, dry weather and
cart track - one horse
trail - seasonal
development - suppression



COORDONÉES INTERNATIONALES
Déterminées en fonction de la référence au méridien de Greenwich, 1977
Système de coordonnées géographiques et projection
Projection Transverse de Mercator

EQUIDISTANCE DES COURBES 100 PIEDS
Échelle en pieds au-dessus de la mer jusqu'à la mer
Système de coordonnées géographiques et projection
Projection Transverse de Mercator

Échelle en mètres
Déterminée en fonction de la référence au méridien de Greenwich, 1977
Système de coordonnées géographiques et projection
Projection Transverse de Mercator

© 1980, Sa Majesté la Reine du Chef du Canada,
Ministère de l'Énergie, des Mines et des Ressources.



REFERENCE

**DFO/MOEP FISH HABITAT INVENTORY AND INFORMATION PROGRAM
STREAM INFORMATION SUMMARY**

91-2900 Watershed Code and Species Summary
CO CM ST

SPECIES INFORMATION

SK CO PK CM CH species present
CO ST lower limit of distribution
CO ST upper limit of distribution
PK * specific site of spawning

SK * major spawning zone
CO *
CM * upper limit of spawning

OBSTRUCTIONS
(measurements included where known)

log jam (persistent)
D = dam
F = falls (3m high)
CV = culvert
BD = beaver dam
R = rock falls
C = cascade, chute or canyon (height = 2m, length = 100m)

ENHANCEMENT / MANAGEMENT ACTIVITIES

HY = hatchery
FW = fishway
SC = side channel
CH = spawning channel

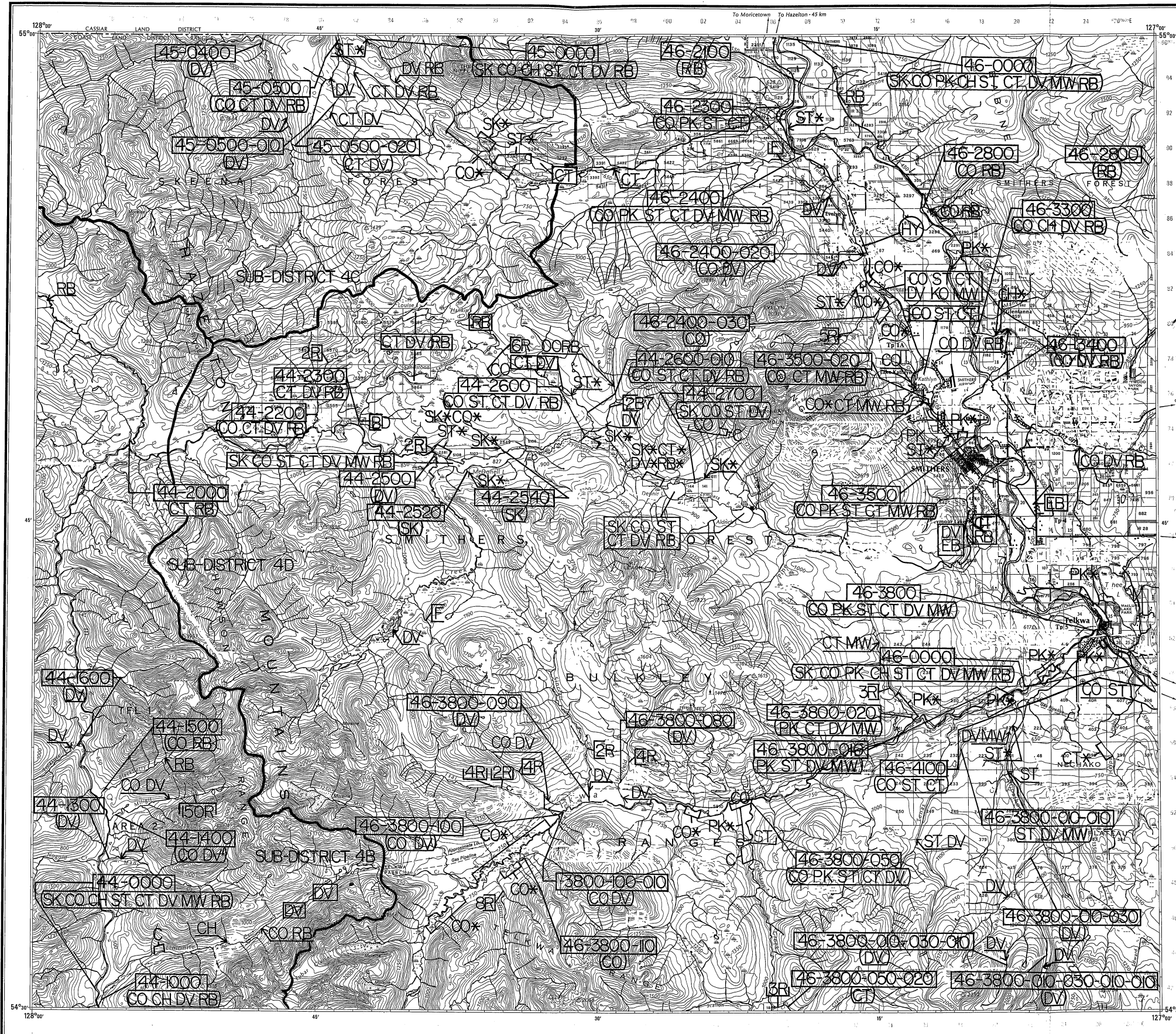
WSC08FB003 Water Survey of Canada Gauging Station

300 CO tributary watershed code

SPECIES ABBREVIATION LIST

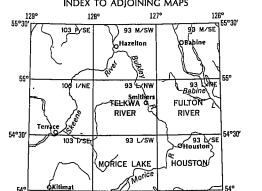
SK - Sockeye	BS - Bass (general)
CO - Coho	CT - Cutthroat
PK - Pink	DV - Dolly Varden
CM - Chum	KO - Kokanee
CH - Chinook	LT - Lake trout
ST - Steelhead	LW - Lake whitefish
AF - All fish	MW - Mountain whitefish
AO - All salmon	RB - Rainbow
	TR - Trout (general)

This Stream Information Summary map complements a companion Stream Summary Catalogue, organized by DFO Subdistrict. Maps and files are organized by watershed code.



MAR. 90

Maps and indexes with price lists may be obtained from
MAPS-B.C., Surveys and Mapping Branch,
Ministry of Environment, Parliament Buildings, Victoria, B.C.

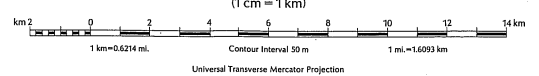


Compiled and produced by Mapping Section, Surveys and Mapping Branch,
Ministry of Environment, Parliament Buildings, Victoria, B.C. 1981

Queen's Printer for British Columbia, Victoria ©

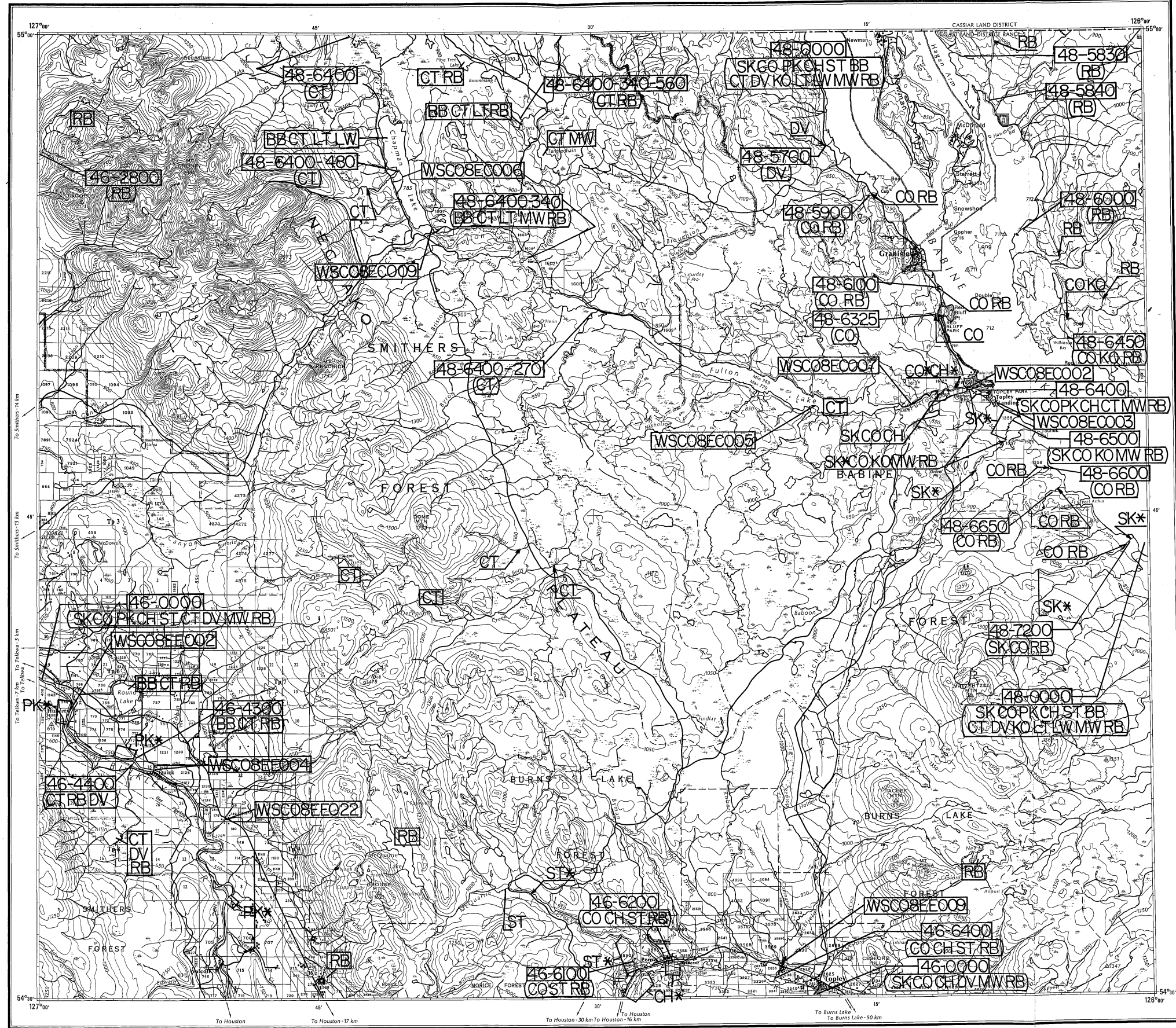
TELKWA RIVER

Scale 1:100 000
(1 cm = 1 km)



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Victoria, B.C. V8V 3K3
385-9786

TELKWA RIVER, B.C.
MAP 93 L/NW
FIRST STATUS EDITION -
APRIL 1981



DFO/MOEP FISH HABITAT INVENTORY AND INFORMATION PROGRAM
STREAM INFORMATION SUMMARY

91-2900 Watershed Code and Species Summary
CO CM ST

SPECIES INFORMATION

SK CO PK CM CH species present
CO ST 1 lower limit of distribution
CO ST J upper limit of distribution
PK * specific site of spawning

SK * major spawning zone
CO CO
CM * upper limit of spawning

OBSTRUCTIONS (measurements included where known)

log jam (persistent)
D = dam
F = falls (3m high)
CV = culvert
BD = beaver dam
R = rock falls
2C100 cascade, chute or canyon (height = 2m, length = 100m)

ENHANCEMENT / MANAGEMENT ACTIVITIES

HY = hatchery
FW = fishway
SC = side channel
CH = spawning channel

WSC08F003 Water Survey of Canada Gauging Station

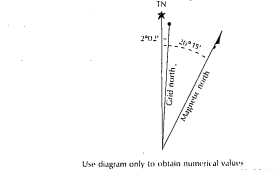
300 CD tributary watershed code

SPECIES ABBREVIATION LIST

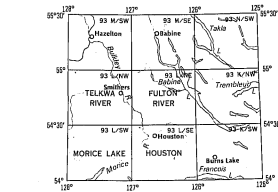
SK - Sockeye	BS - Bass (general)
CO - Coho	CT - Cutthroat
PK - Pink	DV - Dolly Varden
CM - Chum	KO - Kokanee
CH - Chinook	LT - Lake trout
ST - Steelhead	LW - Lake whitefish
AF - All fish	MW - Mountain whitefish
AO - All salmon	RB - Rainbow
BB - Burbot	TR - Trout (general)

This Stream Information Summary map complements a companion Stream Summary Catalogue, organized by DFO Subdistrict. Maps and files are organized by watershed code.

NORTHING: Take south edge of 2000 metre square in which point line and route number printed opposite this line on west or east margin
Estimate proportion of 2000 metre square from this line northward to point
Prefix 100 000 metre value
Within the appropriate Zone the grid reference to the nearest 100 metres for the example above is 3488 6383

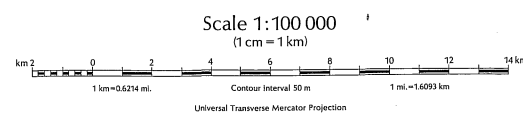


Maps and indexes with price lists may be obtained from 4405-B.C. Surveys and Mapping Branch, Ministry of Environment, Parliament Buildings, Victoria, B.C.



MAR. 90

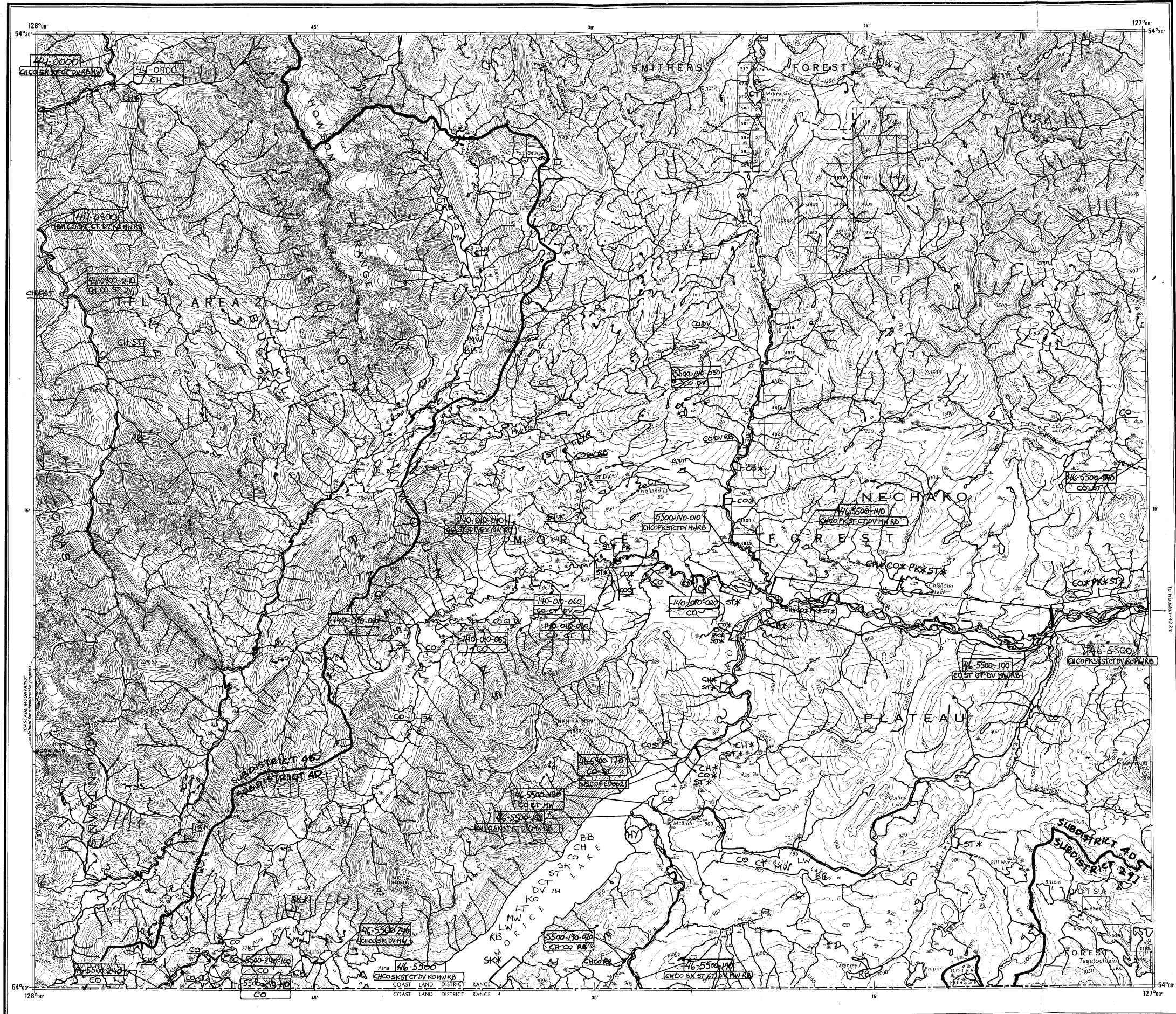
FULTON RIVER



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REFERENCE

**DFO/FISH HABITAT INVENTORY AND INFORMATION PROGRAM
STREAM INFORMATION SUMMARY**

Watershed Code and Species Summary

Species Information

- CH, CO species present
- PK* specific site of spawning
- SK* major spawning zone
- CH+ lower limit of spawning
- CH- upper limit of spawning
- CO ST upper limit of distribution

Obstructions and Special Features
(Measurements included where known)

- ST log jam (persistent)
- FA falls (3m high)
- CV culvert
- BD beaver dam
- HY hatchery
- FW fireweed
- SC side channel
- CS spawning channel
- ZCIBB cascade, chute or canyon (height = 2 m, length = 100 m)
- VSCOB8000 Water Survey of Canada Gauging Station
- 300 tributary watershed code

SPECIES ABBREVIATIONS LIST

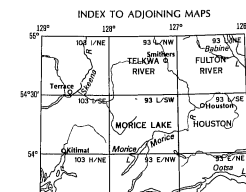
CH - Chinook	DY - Dolly Varden
CH - Chum	EB - Brook Trout
CO - Coho	KU - Koksnoe
PK - Pink	LT - Lake Trout
SK - Sockeye	LW - Lake Whitefish
AD - All salmon	FW - Mountain Whitefish
AF - All fish	RB - Rainbow
BB - Burbot	ST - Steelhead
CT - Cutthroat	TR - Trout (general)

Maps compiled from existing data sources, March 1987. Further information and sources of data are listed in Stream Information Summary files, arranged by Watershed Code number, and are available from D.F.O. Habitat Management Unit, 716 Fraser St., Prince Rupert, B.C., V6J 1P9.

Scientific Authority: Tom Pendray, D.F.O. Habitat Management, North Coast Division, Prince Rupert, B.C.

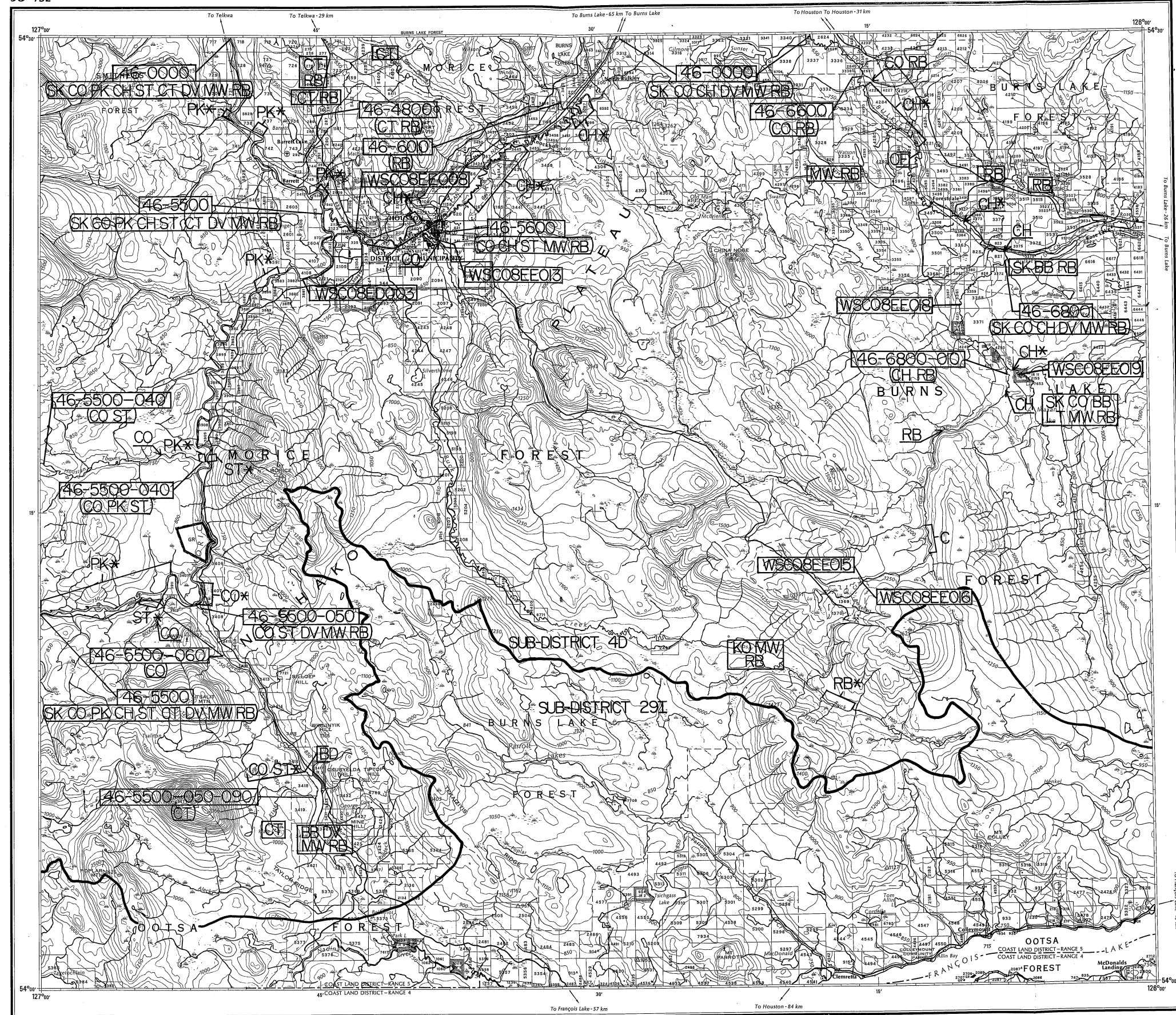
Compiled by S.H.P. Environmental Consultants Ltd., 516 Harbour Ave., Victoria, B.C., V8V 4J1.

Maps and indexes with price lists may be obtained from MAPS-B. C. Surveys and Mapping Branch, Ministry of Environment, Parliament Buildings, Victoria, B.C.





REFERENCE



DFO/MOEP FISH HABITAT INVENTORY AND INFORMATION PROGRAM
STREAM INFORMATION SUMMARY

91-2900 Watershed Code and Species Summary
CO CM ST

SPECIES INFORMATION

SK CO PK CM CH species present
CO ST lower limit of distribution
CO ST upper limit of distribution
PK* specific site of spawning

SK* major spawning zone
CO CO
CM* upper limit of spawning

OBSTRUCTIONS
(measurements included where known)

log jam (persistent)
D = dam
F = falls (3m high)
CV = culvert
BD = beaver dam
R = rock falls
CASC = chute or canyon (height = 2m, length = 100m)

ENHANCEMENT / MANAGEMENT ACTIVITIES

HY = hatchery
FW = fishway
SC = side channel
CH = spawning channel

W5C08FB03 Water Survey of Canada Gauging Station

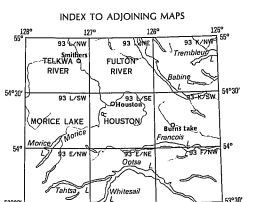
300 CO tributary watershed code

SPECIES ABBREVIATION LIST

SK - Sockeye	BS - Bass (general)
CO - Coho	CT - Cutthroat
PK - Pink	DV - Dolly Varden
CM - Chum	KO - Kokanee
CH - Chinook	LT - Lake trout
ST - Steelhead	LW - Lake whitefish
AF - All fish	MW - Mountain whitefish
AO - All salmon	RB - Rainbow
BB - Burbot	TR - Trout (general)

This Stream Information Summary map complements a companion Stream Summary Catalogue, organized by DFO Subdistrict. Maps and files are organized by watershed code

Maps and indexes with price lists may be obtained from
MAPS-B.C. Surveys and Mapping Branch,
Ministry of Environment, Parliament Buildings, Victoria, B.C.



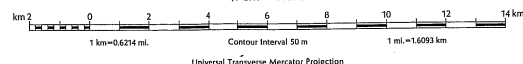
MAR. 90

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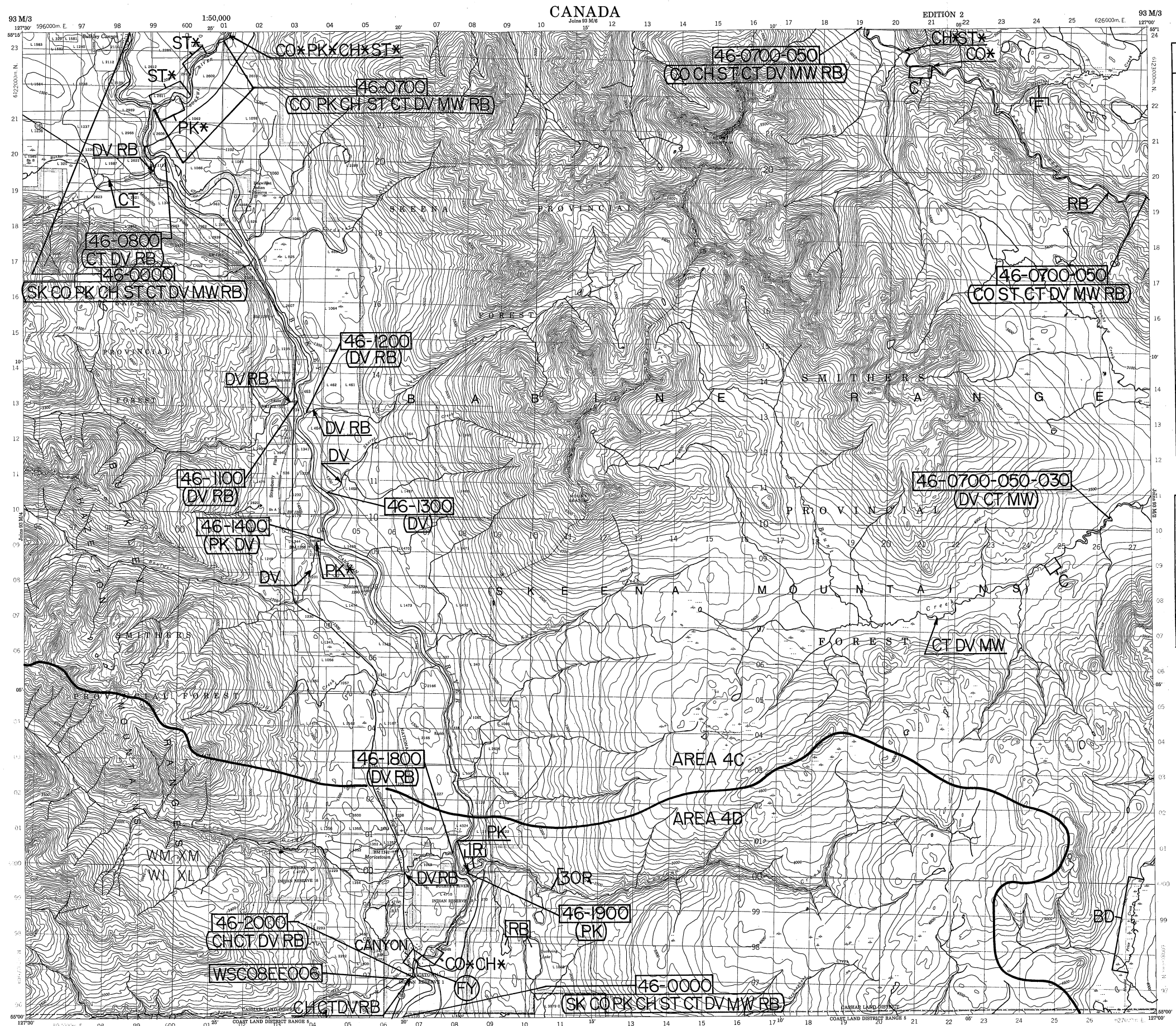
HOUSTON

Scale 1:100 000
(1 cm = 1 km)



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HOUSTON, B. C.
MAP 93 L/SE
FIRST STATUS EDITION—
APRIL 1981



**DFO/MOEP FISH HABITAT INVENTORY AND INFORMATION PROGRAM
STREAM INFORMATION SUMMARY**

91-2900 Watershed Code and Species Summary
CO CM ST

SPECIES INFORMATION

SK CO PK CM CH species present
CO ST lower limit of distribution
CO ST upper limit of distribution
PK* specific site of spawning

SK* major spawning zone
CO*
CO*
CM* upper limit of spawning

OBSTRUCTIONS (measurements included where known)

log jam (persistent)
D = dam
F = falls (3m high)
CV = culvert
BD = beaver dam
F = rock falls
2C100 cascade, chute or canyon (height = 2m, length = 100m)

ENHANCEMENT / MANAGEMENT ACTIVITIES

HY = hatchery
FW = fishway
SC = side channel
CH = spawning channel

WSC08FB003 Water Survey of Canada Gauging Station

300
CO tributary watershed code

SPECIES ABBREVIATION LIST

SK - Sockeye	BS - Bass (general)
CO - Coho	CT - Cutthroat
PK - Pink	DV - Dolly Varden
CM - Chum	KO - Kokanee
CH - Chinook	LT - Lake trout
ST - Steelhead	LW - Lake whitefish
AF - All fish	MW - Mountain whitefish
AO - All salmon	RB - Rainbow
	TR - Trout (general)

This Stream Information Summary map complements a companion Stream Summary Catalogue, organized by DFO Subdistrict. Maps and files are organized by watershed code.

EXAMPLE OF METROD USED TO OBTAIN A REFERENCE POINT (100 METERS)
EXEMPLE DE LA METHODE EMPLOYEE POUR OBTENIR UN POINT DE REFERENCE (100 METRES)

REFERENCE POINT / POINT DE REFERENCE CHURCH - EGLISE (see above / voir ci-dessus)

ENTRANCE: Read number on grid line immediately to left of point.
LONGITUDE EST: Note the centre of the figure on corresponding immediately adjacent grid line.
 Estimate tenths of a space from this line extended to point.
 Estimate the number of divisions of a centimetre between this figure and the right edge of the diagram.

NORTHING: Read number on grid line immediately below point.
LATITUDE NORTH: Note the centre of the figure on corresponding immediately adjacent grid line.
 Estimate tenths of a space from this line extended to point.
 Estimate the number of divisions of a centimetre between this figure and the bottom edge of the diagram.

GRID REFERENCE: 979984
REFERENCE TO COORDINATES: 979984
 Assume similar grid reference (1000 metres above 42 000) for other points on map.

MAR. 90