

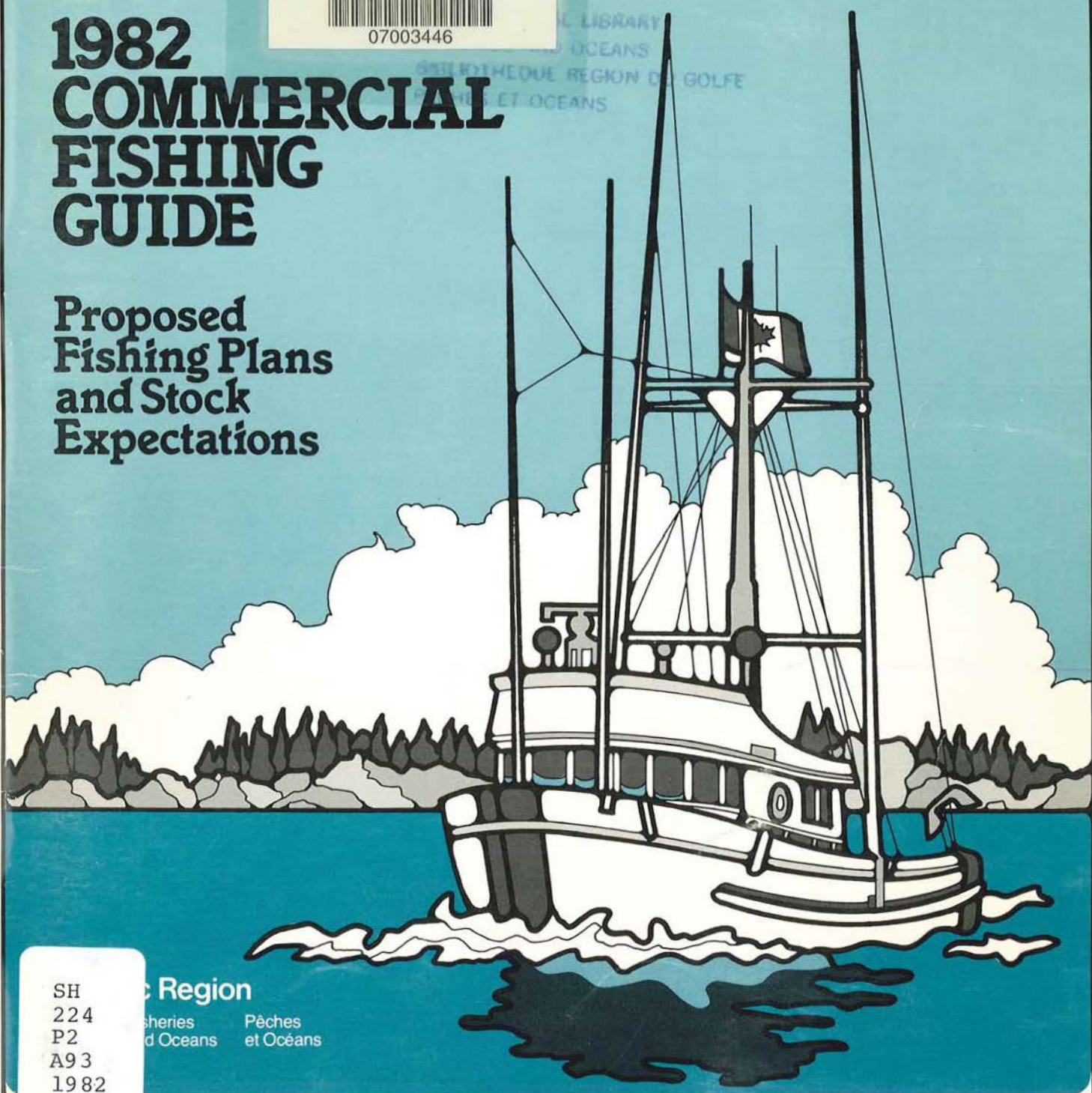
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# 1982 COMMERCIAL FISHING GUIDE

## Proposed Fishing Plans and Stock Expectations



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Canada

1982

# Commercial Fishing Guide

Editor: Brenda Austin

Department of Fisheries and Oceans  
Pacific Region  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1



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A red stamp graphic with a stylized map of the Gulf of Canada region, located to the right of the library text.

# 1982 Calendar

## JANUARY

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This publication is based on the best available information at the time of printing and is intended as a guideline only. Because information and sources are subject to change without notice, the Government of Canada and its Department of Fisheries and Oceans will not accept any responsibility for any loss or damage arising from reliance on information contained herein.

This guide is available at Fisheries and Oceans offices or from:

Information Branch  
Department of Fisheries and Oceans  
Pacific Region  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: (604) 666-1384

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The Commercial Fishing Guide, initiated in 1981, continues our policy of improving communication with the fishing industry. This edition provides an outline of the 1982 fisheries that is as full and accurate as possible this early in the year.

The fishery will be closely monitored during the year and fishing plans may be refined in response to changing levels of stock abundance. Also, some changes may be implemented in response to recommendations in the Pearse preliminary and final reports.

Highlights in the 1981 season included above average returns of sockeye and pink salmon which provided good fishing throughout the region. I hope, with the cooperation of all resource users and vigilant management, that the 1982 season also offers some good fishing and that this guide, once again, proves helpful to fishermen and industry in planning the season ahead.

A handwritten signature in dark ink, appearing to read "C. W. Shinnars", with a long, horizontal flourish extending to the right.

C. Wayne Shinnars  
Director General  
Department of Fisheries and Oceans  
Pacific Region

# Introduction to the Pacific Region

The prime objectives of the Pacific Region of the federal Department of Fisheries and Oceans are to manage, conserve and enhance the tidal and anadromous fish stocks of British Columbia and the Yukon Territory for the greatest possible benefit from the renewable fishery resource.

Federal responsibility for fisheries began with the British North America Act of 1867. Today, the role played by the Department of Fisheries and Oceans affects many thousands of Canadians in the Pacific Region whose livelihood depends directly or indirectly on the fishing industry.

The Canada Fisheries Act provides the legal foundation for the federal government's responsibility for fisheries management and regulations are promulgated under this act for various fisheries. In addition, pressures on the marine resource from foreign and domestic fishing fleets have produced an increasing number of formal international agreements and other acts and regulations

which the regional officers must administer.

Under the Fish Inspection Act, the federal government has a responsibility to provide a uniform national program that encompasses quality control and product inspection. This covers harvesting through processing of products for both interprovincial trade and export.

Federal fisheries management, development and research in three regions, Ontario, Western and Pacific, come under the jurisdiction of an Assistant Deputy Minister.

H. Douglas Johnston  
Assistant Deputy Minister  
Pacific and Freshwater Fisheries  
Department of Fisheries and Oceans  
240 Spark Street  
Ottawa, Ontario  
K1A 0E6

## Fisheries Management

A Director General oversees the day-to-day management of fisheries resources and related research in the Pacific Region.

C. Wayne Shinnars  
Director General  
Pacific Region  
Department of Fisheries and Oceans  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

The Pacific Region covers all of British Columbia and the Yukon and divides into branches, divisions and programs each responsible for a different aspect of fisheries management. The following sections provide a brief summary of several of the major branches and those divisions and programs that directly affect commercial fishermen.

For enquiries of a general nature:

Tel: 666-3545

## Field Services Branch

The primary role of the Field Services Branch is to protect and manage the inshore and offshore fisheries resource and habitat in the Pacific Region. The branch has three inshore divisions (with offices in 38 coastal and inland communities in British Columbia and the Yukon) and an offshore division.

Division head offices in Prince Rupert, Nanaimo and New Westminster bring department representatives closer to local resource users, and a Director of Northern Operations — located in Prince Rupert and reporting to the Director General — oversees the special concerns of the developing north coast.

Decentralized management biology support groups and a technical habitat management unit that is in the process of decentralization, are vital components of the branch.

Field Services Branch responsibilities include licensing, regulation, enforcement, fish inspection, vessel insurance and industry development.

### Contacts:

Don Wilson Director Field Services Branch 1090 West Pender Street Vancouver, B.C. V6E 2P1 Tel: 666-1751	Eric Kremer Director Northern Operations Room 109, 417 2nd Ave. West Prince Rupert, B.C. V8J 1G8 Tel: 627-8729
--	---

### North Coast Division; South Coast and Vancouver Island Division; Fraser River, Northern B.C. and Yukon Division

Area Managers in the South Coast and Fraser-Yukon Divisions and an Operations Manager in the North Coast Division are responsible for the day-to-day management of the fisheries. Their responsibilities include conservation and protection as well as plant, product and vessel inspection and vessel insurance. They also ensure an

avenue exists for participation by fishermen and processors in the formulation of fisheries policy. Generally it can be said that the area manager, or the operations manager in the North Coast Division, is the department's representative at the local level. District supervisors are their representatives.

### Contacts:

Tom Perry  
Operations Manager  
North Coast Division  
Room 109, 417 2nd Ave. West  
Prince Rupert, B.C.  
V8J 1G8

Tel: 624-9137

Dennis Brock  
Area Manager  
South Coast and Vancouver Island Division  
Main floor, 60 Front Street  
Nanaimo, B.C.  
V9R 5H7

Tel: 753-1268 (666-1589 until February 15, 1982)

Fred Fraser  
Area Manager  
Fraser River, Northern B.C. and Yukon Division  
Room 311, 549 Columbia Street  
New Westminster, B.C.  
V3L 1B3

Tel: 524-7141

Generally, questions concerning regulations, licences, insurance and other common problems can be answered most quickly by your local fishery officer. Contact the fishery officer *first*. If the fishery officer is unable to help you, then contact your district supervisor. Fishery officers and district supervisors welcome approaches by fishermen, industry and association representatives and if they cannot help you they will put you in touch with someone who can.

**District Supervisors (North Coast Division):**

Gus Jaltema, Prince Rupert	Tel: 624-9137
Willie McKenzie, Kitimat	Tel: 632-6158
Vacant, Queen Charlotte City	Tel: 559-4413

**District Supervisors (South Coast and Vancouver Island Division):**

Don McCulloch, Port Alberni	Tel: 724-0195
Kip Slater, Nanaimo	Tel: 754-3257
Norm Lemmen, Campbell River	Tel: 287-2102
Larry Duke, Victoria	Tel: 388-3252

**District Supervisors (Fraser River, Northern B.C. and Yukon Division):**

Don Aurel, New Westminster	Tel: 524-7181
Grant Scott, Kamloops	Tel: 374-4322
Gordon Zealand, Whitehorse	Tel: (403) 667-2235

**Management Biologists**

A Regional Salmon Coordinator has been appointed to develop policy and management strategy for the B.C. salmon fisheries. The salmon coordinator provides functional direction to the decentralized Management Biology Support Units as well as the management biology staff at Vancouver headquarters.

Don Anderson  
Regional Salmon Coordinator  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-2610

Management biologists, located in Prince Rupert, Nanaimo and Vancouver, provide biological information for the management of fish stocks. They manage various test fisheries and programs of fish sampling, tagging and enumeration. A major activity is the assessment of the effect of various regulation changes made for conservation purposes.

Management biologists also conduct studies to test the need for enhancement of fish stocks and to test the effects of enhanced stocks on wild stocks in relation to fish manageability.

**Contacts:**

Senior Biologist  
North Coast Division  
Room 109, 417 2nd Avenue West  
Prince Rupert, B.C.  
V8J 1G8  
Tel: 627-8730

Dave Schutz  
Senior Biologist  
South Coast and Vancouver Island Division  
Main floor, 60 Front Street  
Nanaimo, B.C.  
V9R 5H7

Tel: 753-1268

Robin Harrison  
Senior Biologist  
Fraser River, Northern B.C. and Yukon Division  
Room 311, 549 Columbia Street  
New Westminster, B.C.  
V3L 1B3

Tel: 524-7143

**Offshore Division**

The Offshore Division manages both foreign and domestic offshore fishing within the 200 mile limit. The division has three units:

**Special Programs and Management**

This unit undertakes pilot projects for the management of offshore fisheries and liaises with industry to ensure optimal use of existing and newly developing offshore fisheries.

**Operations Unit**

Operations Unit monitors the various groundfish species quotas, both foreign and domestic; licenses foreign fishing activities; and proposes regulatory measures affecting the groundfish fisheries.

## Surveillance and Enforcement

This unit is responsible for surveillance of the Canadian offshore fishing fleets and also monitors and manages foreign vessel port visits and foreign vessel fishing activities in Canada's 200 mile zone.

### Contact:

Ed Zyblut  
Manager, Offshore Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-3167

## Operations Centre

The main responsibility of the Operations Centre is to relay information promptly from managers and district supervisors to field staff, industry and the general public via telephone, telex, radiotelephone and recorded message. In addition, historical and current information is kept on file for all fisheries.

On a daily basis during the roe herring fishery, area and division managers and members of the Herring Coordination Centre review the resource use data and proposals from the field and set out a fishing pattern. A bulletin informs industry, field staff and the public of openings, closures, boundary movements and updates on spawning and roe maturity. During the course of the day, the Operations Centre relays any changes to this bulletin.

Notification of the upcoming commercial salmon fishery is distributed through the Salmon Expectations and Proposed Fishing Patterns. Changes to these plans are issued as they are formulated. Once the fishery begins, the Operations Centre receives information daily from the field and prepares weekly catch statistics by area and by gear. A bulletin is prepared detailing the fishing pattern for the upcoming week and any modifications are promptly issued.

The Operations Centre is also responsible for advising industry, field staff and the public on the following:

- regulatory changes;

- changes in closed seasons for species other than salmon and herring;
- notification of licensing changes;
- restrictions or changes in areas closed to shellfish harvesting due to paralytic shellfish poisoning (PSP or Red Tide) and/or sewage contamination.

Recorded messages for commercial fishermen of fishing times and areas are available 24 hours a day, seven days a week. The recordings are revised on a change-by-change basis.

Tel: 669-2828 (Vancouver)  
627-7558 (Prince Rupert)

For more detailed information (e.g. boundaries), commercial fishermen should contact the Operations Centre during regular office hours.

Tel: 666-1583

A sportfishing contact number is operational 24 hours a day, seven days a week. After office hours this line carries a recorded message on sportfishing that includes best fishing places, best times and best gear. In addition an indication is given as to which areas presently have restrictions, including PSP (Red Tide) updates.

Tel: 666-3169

The Operations Centre is under the supervision of:

Suzanne Benoit  
Supervising Officer  
Operations Centre  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-3169

and under the direction of:

Bob Wowchuk  
Head, Operations Unit  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1511

## Fisheries Development Division

This division works with fishermen, industry representatives and other government agencies on programs for the development of the commercial fisheries in the Pacific Region.

Projects are undertaken for:

- the more efficient exploitation of fishery resources with emphasis on improved catch selectivity by species and size;
- the exploration for and development of new fishery resources and new fisheries;
- the introduction and demonstration to fishermen of new types of fishing equipment and new fishing techniques;
- the development of new fishery products;
- the improvement of the handling, processing and quality of fish and fishery products.

For further information contact:

Bob McIlwaine  
Manager, Fisheries Development Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-2685

or

Vessel and Gear Technologist  
Fisheries Development Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-2685

## Fish Inspection Division

The Fish Inspection Division inspects domestic and imported fish products to ensure quality, safety and proper labelling, and to establish grades. The division also inspects and certifies processing and packing plants, equipment, vehicles and fishing vessels. The division administers various assistance programs under the

Fisheries Development Act and provides technical advice to fishermen and processors.

In conjunction with the Environmental Protection Service of Environment Canada and Health and Welfare Canada, the Department of Fisheries and Oceans monitors clams, oysters and mussels in B.C. waters and in commercial lots for the presence of sewage bacteria and paralytic shellfish poison caused by *Gonyaulax* organisms. Fishermen interested in harvesting bivalve molluscs should contact the local Fisheries and Oceans office for a current list of areas closed because of sewage contamination (Schedule I of the Pacific Shellfish Regulations) and an update on the areas closed because of paralytic shellfish poison.

The Fish Inspection Division ensures fishing and packing vessels meet boat hold standards that are a requirement for licensing. All fish must be protected from weather and contamination; fish contact surfaces must be constructed of approved non-porous material; bulkheads must be insulated and water tight; and fish pens must be shelved where necessary to prevent crushing. Fish should also be chilled by the use of ice, refrigerated sea water, or by other approved methods.

For further information contact:

**Inspection Headquarters' staff**  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Charles Campbell, A/Manager Inspection and Special Service	666-1478
Ian Devlin A/Operations Manager	666-1801
Sing Liem A/Senior Inspection Engineer	666-1288
Klaus Schallie Boat Inspection Coordinator	666-6706
Rudy Chiang Shellfish Inspection Coordinator	666-3342

**Southern Inspection Field Office**

326 Howe Street  
 Vancouver, B.C.  
 V6C 2A5

Don E. Wilson  
 A/Supervisor 666-3903  
 Boat Inspection Schedules  
 and Requests 666-1139

**Vancouver Inspection Laboratories**

326 Howe Street  
 Vancouver, B.C.  
 V6C 2A5

General Enquiries 666-1551

**Vancouver Island Inspection Office**

Ste. 5-1537 Hillside Ave.  
 Victoria, B.C.  
 V8T 4Y2

Wayne Holmes, Supervisor 388-3455

**Prince Rupert Inspection Office**

Room 224-417 2nd Ave. W.  
 Prince Rupert, B.C.  
 V8J 1G8

General Enquiries 627-1375

**Fishing Vessel Insurance Plan**

The Fishing Vessel Insurance Plan provides insurance coverage on the coast of British Columbia for insurable commercial fishing vessels under 23 metres in overall length. When vessels are appraised for insurance, advice is provided for the improvement of safety practices. This includes information on fire prevention equipment, fuel storage, installation of cooking and heating units, life-saving equipment, safety alarm systems, pumping systems, heat dissipation, proper wiring and communication devices. General information is also provided to fishermen, prospective fishermen and credit institutions about the Fisheries Improvement Loan Act and Regulations.

For further information contact:

Audley Tinglin  
 Regional Manager  
 Fishermen's Assistance Plans  
 1090 West Pender Street  
 Vancouver, B.C.  
 V6E 2P1

Tel: 666-3719

Mac Chettle and Dave Dyck  
 District Managers  
 Fishing Vessel Insurance Plan  
 1255 No. 1 Road  
 Richmond, B.C.  
 V7E 1T7

Tel: 274-7211

Dave Hayes and Neil McAra  
 District Managers  
 Fishing Vessel Insurance Plan  
 Room 204-60 Front Street  
 Nanaimo, B.C.  
 V9R 5H7

Tel: 753-4051

Rob Newton  
 District Manager  
 Fishing Vessel Insurance Plan  
 Room 109, Federal Building  
 Prince Rupert, B.C.  
 V8J 1G8

Tel: 624-9137

## Habitat Management Division

The Habitat Management Division provides the scientific and technical investigation and research required to reduce or eliminate the impact of other resource use activities on the productivity of the fishery resource and its supporting habitat.

The division is organized into three technical units: Land Use, Water Quality and Water Use. Respectively, these units assess the impacts of and resolve issues concerning:

- highways, pipelines, flood control, placer mining and forest harvesting;
- urban and industrial water pollution;
- hydro-electric development, urban and industrial water supply and foreshore developments.

A fourth unit coordinates planning, internal and external communications and administration.

Decentralization of technical staff, initially to Prince Rupert, New Westminster, Nanaimo, Whitehorse and Williams Lake, will begin in early 1982.

The division is under the management of:

Forbes Boyd  
Habitat Management Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-3282

## Resource Services Branch

The Resource Services Branch conducts research programs related to the biology, stock assessment, conservation and protection of salmon, herring, shellfish and groundfish resources in the Pacific Region. In addition, at the Pacific Biological Station, Nanaimo and at the West Vancouver Laboratory, the branch conducts biological and chemical studies related to fish habitat and water pollution problems.

Fishermen are encouraged to contact branch research staff for advice or information. The following contacts may be useful:

Dr. R. (Dick) Beamish  
Branch Director  
Pacific Biological Station  
Nanaimo, B.C.  
V9R 5K6

Tel: 758-5202

Dr. John Stockner  
Associate Branch Director and Head  
Enrichment Studies Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-8929 and 922-6225

Dr. Ian Birtwell  
Head, Habitat Research  
West Vancouver Laboratories  
4160 Marine Drive  
West Vancouver, B.C.  
V7V 1N6

Tel: 926-4112

John Thomson  
Marine Fisheries Coordinator  
Pacific Biological Station  
Nanaimo, B.C.  
V9R 5K6

Tel: 758-5202

Dr. Leo Margolis  
Head, Fish Health and Parasitology  
Pacific Biological Station  
Nanaimo, B.C.  
V9R 5K6

Tel: 758-5202

Bob Humphreys  
A/Head, Herring Division  
Pacific Biological Station  
Nanaimo, B.C.  
V9R 5K6

Tel: 758-5202

## Technology Services Branch

This branch provides technological and scientific initiatives and support on a continuous basis in order to:

- maintain the quality of fish in the primary fisheries at a high level;
- develop the technological data base to assess fish quality as affected by variations in physiological state, season and geographic areas.

The branch transfers the results of research and development activities to the fishing industry through bi-annual meetings with fishermen's organizations and technical representatives of the fishing industry, and through technical and scientific reports.

Programs of research are conducted in three general areas — quality enhancement; handling, storage and refrigeration; and marine plants.

The Technology Services Branch is under the direction of:

Dr. Henry Tsuyuki  
A/Director  
6640 N.W. Marine Drive  
Vancouver, B.C.  
V6T 1X2

Tel: 224-1366

# Small Craft Harbours Branch

This branch administers some 200 facilities in British Columbia and operates them primarily for the commercial fishing fleet, but other commercial vessels and pleasure craft also make use of them. Additional branch responsibilities include maintenance of harbours, acquisition of property and construction of new facilities as required and when funds permit.

At certain larger locations, harbour managers are responsible for the day-to-day operation of the facilities.

A *Guide to Federal Fishing and Recreational Harbours* in the form of a map has been prepared and is generally available through the local harbour managers. However, it may be obtained through:

Small Craft Harbours Branch  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-6271

Further information on Small Craft Harbours Branch can be obtained from the same address through:

Warren Parkinson  
Regional Director

Tel: 666-6530

Stan Wallace  
Manager, Property and Operations

Tel: 666-1250

Art Ryll  
Regional Engineer

Tel: 666-6724

## Harbour Managers — Pacific Region

### Albion

Patrick Faulkner  
32467 Best Avenue  
Mission, B.C.  
V2V 2S5

Tel: 826-7253

### Alert Bay

William McAthly  
Box 255  
Alert Bay, B.C.

Tel: 974-5979

### Armitage Point

(See Tofino)

### Bamfield West

Joseph Lamb  
Box 9  
Bamfield, B.C.  
V0R 1B0

Tel: 728-3363 (Res)

### Beacon Street

(See Tsehum Harbour)

### Bella Coola

Randi Baldwin  
Box 531  
Bella Coola, B.C.  
V0T 1C0

Tel: 799-5495 (Res)  
799-5633 (Bus)

### Browning Harbour

(See Hope Bay)

### Burgoyne Bay

(See Saltspring Island)

### Campbell River

Dave Hall  
Campbell River, Government  
Harbour

Tel: 287-7931

**Comox**

John Fontaine  
Box 1258  
Comox, B.C.  
V9N 5N2

Tel: 339-6041 (Bus)  
339-4673 (Res)

**Cortes Bay**

Jeanette Lynn Blinzinger  
Box 12  
Cortes Bay, B.C.  
V0P 1K0

Tel: 935-6361 (Res)

**Cowichan Bay**

Merrell George Sinclair  
R.R. #1  
1725 Glen Road  
Cowichan Bay, B.C.  
V0R 1N0

Tel: 746-7628 (Res)  
746-5911 (Bus)

**Crescent Beach**

(See White Rock)

**Crofton**

Henry Bonsall  
Box 21  
8129 Arthur Street  
Crofton, B.C.  
V0R 1R0

Tel: 246-9349 (Res)  
246-4512 (Bus)

**Deep Bay (Fanny Bay)**

Gordon Price  
R.R. #1 Kincade Road  
Qualicum Beach, B.C.  
V0R 2T0

Tel: 752-6001 (Res)  
757-9331 (Bus)

**Degnen Bay**

George Ryall  
R.R. #2  
North Road  
Gabriola, B.C.  
V0R 1X0

Tel: 247-8732

**Egmont**

Vera Grafton  
General Delivery  
Egmont, B.C.

Tel: 883-9243

**False Creek**

Harry Brooks  
1505 West 1st Avenue  
Vancouver, B.C.  
V6J 1E8

Tel: 731-5913 (Bus)  
731-8611 (Bus)  
585-2147 (Res)

**Fanny Bay**

(See Deep Bay)

**Finn Bay**

(See Lund)

**Ford's Cove**

Jennifer Fredbeck  
General Delivery  
Ford's Cove  
Hornby Island, B.C.  
V0R 1Z0

Tel: 335-2169

**French Creek**

Ed Irwin  
Site 227  
10 Mason Trail  
R.R. #2  
Parksville, B.C.  
V0R 2S0

Tel: 752-9948 (Res)  
248-5051 (Bus)

**Fulford Harbour**

(See Saltspring Island)

**Ganges**

(See Saltspring Island)

**Gibsons**

Leonard Plourde  
Box 1304  
Sechelt, B.C.

Tel: 885-7502

**Gorge Harbour**

Dr. Stephen Gislason  
Box 50  
Whaletown, B.C.  
V0P 1Z0

**Hope Bay**

(No manager at present)

**Horton Bay**

Edona Medcalf  
Maple Drive  
R.R. #1  
Mayne Island, B.C.  
V0N 2J0

Tel: 539-2402

**Hospital Bay**

(See Pender Harbour)

**Irvines Landing**

(See Pender Harbour)

**Kanaka Landing**

Donald Puska  
Albion Boat Works Ltd.  
23284 McKay Street  
R.R. #1  
Maple Ridge, B.C.  
V2X 7C1

Tel: 463-9727

**Ladner**

Rod Edwards  
4450 Clarence Taylor  
Crescent  
Delta, B.C.  
V4K 3E2

Tel: 946-4141

**Ladysmith**

Ray Bradford  
Blainey's Crossing  
R.R. #2  
Ladysmith, B.C.  
V0R 2E0

Tel: 245-2423 (Res)  
245-7511 (Bus)

**Lund (Okeover Arms, Finn Bay)**

Bob Smith  
General Delivery  
Lund, B.C.  
V0N 2G0

Tel: 483-4920 (Res)  
483-4711 (Bus)

**Madeira Park**

(See Pender Harbour)

**Mansons Landing**

Pat Finnerty  
Mansons Landing  
Cortes Island, B.C.  
V0P 1K0

Tel 935-6564

**Maple Bay**

Peter Lines  
6683 Beaumont Avenue  
Maple Bay, B.C.  
V9L 1M3

Tel: 748-0672 (Res)  
746-7101 (Bus)

**McIvor's Landing**

Benedict Chiste  
26392-88 Avenue  
R.R. #6  
Langley, B.C.  
V3A 4P9

Tel 856-8135

**McMillan Island**

Mike Waska  
Box 266  
Fort Langley, B.C.  
V0X 1J0

Tel: 888-8943

**Masset**

Bruce Pirt  
Box 494  
Masset, B.C.

Tel: 626-5807 (Res)

**Mill Bay**

Ralph Keir  
R.R. #1  
Mill Bay, B.C.  
V0R 2P1

Tel: 743-9764

**Mission**

P. M. Vinnish  
8645 Stave Lake Street  
P.O. Box 20  
Mission, B.C.  
V2V 4L9

Tel: 826-1928

**Mitchell Bay**

Robert S. Turner  
Box 157  
Sointula Post Office, B.C.  
V0N 3E0

Radio Telephone

**Okeover Arms**

(See Lund)

**Otter Street**

(See Ucluelet)

**Pender Harbour (Hospital Bay,  
Irvines Landing, Madeira Park,  
Whiskey Slough)**

Alfons Jesberger  
Box 44  
Madeira Park, B.C.  
V0N 2H0

Tel: 883-2438  
883-2234 (Bus)

**Porpoise Bay**

Larry Reardon  
P.O. Box 952  
Sechelt, B.C.  
V0N 3A0

Tel: 885-9320 (Res)  
885-2235 (Bus)

**Port Clements**

B. (Barney) Barnewall  
  
Tel: 557-4334

**Port Hardy**

Harbour Manager  
  
Tel: 949-6332

**Port McNeill**

Florence Annette  
P.O. Box 728  
Port McNeill, B.C.  
V0N 2R0

Tel: 956-3997

**Powell River**

R. S. Peters  
6910 Duncan Street  
Powell River, B.C.  
V8A 1V4

Tel: 485-5244

**Prince Rupert (Fairway Bay,  
Cow Bay, Dodge Cove,  
Port Edwards, Metlakatla)**

Clive McLeod  
Box 757  
Prince Rupert, B.C.  
V8J 3S1

Tel: 845-7274 (Res)  
624-2244 (Bus)

**Prince Rupert (Rushbrook)**

George Rose  
Box 757  
Prince Rupert, B.C.  
V8J 3S1

Tel: 624-9400

**Queen Charlotte City**

Barbara Rich  
General Delivery  
Queen Charlotte City, B.C.  
V0T 1S0

Tel: 559-4650 (Bus)

**Saltery Bay**

Frances Johnstone  
R.R. #3  
Powell River  
Saltery Bay, B.C.  
V8A 5C1

Tel: 487-9243

**Saltspring Island (Burgoyne  
Bay, Fulford Harbour, Ganges  
(Inner & Outer Harbour)  
Vesuvius Bay Whaler Bay)**

James Stuart  
P.O. Box 308  
Ganges, B.C.  
V0S 1E0

Tel: 537-5711 (Bus)

**Secret Cove**

Daniel Hull  
R.R. #1 Brooks Road  
Halfmoon Bay, B.C.  
V0N 1Y0

Tel: 885-5708

**Sointula**

Ed Gordon  
P.O. Box 64  
Sointula, B.C.  
V0N 3E6

Tel: 973-6591

**Sooke**

Linda Young  
Box 752  
Sooke, B.C.  
V0S 1N0

Tel: 642-3673  
642-4431

**Squirrel Cove**

Ian Lake  
General Delivery  
Squirrel Cove, B.C.  
V0P 1C0

Tel: 935-6529

**Squitty Bay**

Diana Schroeder  
Squitty Bay  
Lasqueti Island, B.C.  
V0R 2J0  
Tel: OP-841

**Stewart**

Russ Earl  
P.O. Box 700  
Stewart, B.C.  
V0T 1W0

Tel: 636-2238

**Steveston**

Art Wiebe  
12280 - 1st Avenue  
Richmond, B.C.  
V7E 3M2

Tel: 271-6808 (Bus)  
274-0627 (Res)

**Stuart Island**

Jamie Yavis  
Stuart Island Resort  
Stuart Island, B.C.  
V0P 1V0

Tel: Radio Telephone  
Campbell River Operator

**Tofino (Armitage Point,  
4th Street Boat Harbour,  
Wingen Lane)**

Arthur Clark  
Box 43  
Tofino, B.C.

Tel: 725-3794

**Tsehum Harbour (Beacon Street,  
Brentwood Bay)**

Allison Horton  
10316 Resthaven Drive  
Sidney, B.C.  
V8L 3H1

Tel: 656-6360 (Res)  
656-3114 (Bus)

**Ucluelet Boat Harbour  
(Otter Street and East Floats)**

Pat Putsey  
Box 910  
Ucluelet, B.C.  
V0R 3A0

Tel: 726-4241

**Vesuvius Bay**

(See Saltspring Island)

**West Boat Harbour**

(See Ucluelet)

**Whaler Bay**

(See Saltspring Island)

**Whiskey Slough**

(See Pender Harbour)

**White Rock**

Tom Ferguson  
c/o Doug Stone  
City Hall  
15322 Buena Vista  
White Rock, B.C.  
V4B 1Y6

**Whonnock**

Alex Landale  
9730-268th Street  
R.R. #1  
Whonnock, B.C.  
V0N 1S0

Tel: 462-9962

**Wingen Lane**

(See Tofino)

**Zeballos**

Gunther Bosecker  
Box 9  
Zeballos, B.C.  
V0N 2A0

Tel: 295 (Res)  
221 (Bus)

## Economics and Statistics Branch

The Economics and Statistics Branch conducts planning studies on the economic and social aspects of fisheries management and development projects, programs and policies. In addition, the branch is responsible for compilation of catch and production statistics.

Branch publications (e.g. *Annual Fisheries Statistics of British Columbia*; *Annual Summary of British Columbia Catch Statistics*; *Weekly Fish Marketing Report*, etc.) can be obtained from:

Secretary  
Economics and Statistics Branch  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1985

The branch is under the direction of:

David Reid  
Director  
Economics and Statistics Branch

Tel: 666-3710

On the following specific topics, fishermen may wish to contact branch personnel directly.

### **Commercial Salmon, Herring, Groundfish and Shellfish Fisheries**

Alan Barber — Tel: 666-3361

### **Sport Fishing**

Bill Masse — Tel: 666-1369  
Mary MacGregor — Tel: 666-8950

### **Habitat Protection**

Mary Hobbs — Tel: 666-1864

### **Processing Sector/Marketing**

Peter Leitz — Tel: 666-1876

### **Salmonid Enhancement Program Economic Advisor**

Rob Morley — Tel: 666-6679

### **Catch Statistics**

Maureen Kostner — Tel: 666-3810

## Information Branch

Information Branch provides a comprehensive information program on the mandate and activities of the Department of Fisheries and Oceans.

The branch plays a major role in responding to enquiries from the general public, researchers, teachers, students and client and special interest groups.

To provide information to the news media quickly and efficiently, press releases, press conferences and briefings, background documents and press kits are used where appropriate.

Publications such as *Fishermen's Newsletter* and *B.C. Tidal Waters Sport Fishing Guide* are issued to inform commercial and sport fishermen about policy and regulation changes and to provide more general information on the resource and resource management.

Other activities of the branch include preparation of speeches for senior officials, participation at fairs and exhibitions, development of slide shows to support staff in addressing various audiences, and the maintenance of a film and slide show library for use by staff, schools and others.

The branch is under the direction of:

Kate Glover  
A/Chief  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1470

## Support Services Branch

The Support Services Branch provides the in-house managerial services required to support regional operations. The branch is organized in divisions which are responsible for administration, finance, computing, patrol and research ships and property management.

For information concerning these subjects, contact:

Bob Smith  
Director  
Support Services Branch  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-8539

## Salmonid Enhancement Program

The federal-provincial Salmonid Enhancement Program (SEP) began in 1977 with the target of doubling the catch of Pacific salmonids to 300 million pounds per year by the year 2000. The objective of Phase I of the program, funded for seven years with a total budget of \$150 million dollars, is to generate social and economic benefits by an increase to the catch of 50 million pounds per year from enhancement techniques.

Expected benefits from SEP include: increased national income; increased employment; regional development (especially in remote coastal communities); improved opportunities for native people and resource and environmental preservation.

SEP allocates its largest budget to the design, construction and operation of major enhancement production facilities. These include Capilano and Chilliwack on the lower mainland; Tlupana, Robertson and Nitinat on the west coast of Vancouver Island and Little Qualicum, Big Qualicum, Puntledge and Quinsam on the east coast of Vancouver Island. Those operating in the north include Snootlie Creek, Kitimat and Pallant Creek hatcheries and Pinkut and Fulton River spawning channels on the Babine system.

SEP has contracts with nine Indian bands in B.C. who construct and operate small hatchery facilities and carry out stream improvements. Two native advisors who liaise with SEP and provide further information for interested bands, can be contacted through the Public Involvement Program at the address below.

SEP funds a major tagging and recovery program that is a key to the management of wild and enhanced stocks. SEP also conducts research into fish nutrition, disease and genetics, and runs pilot projects in various areas that test new enhancement techniques. Lake enrichment shows the most dramatic success of these new techniques. Nutrients added to lakes that are used for juvenile sockeye rearing, can greatly increase sockeye smolt production from those lakes.

Public involvement at several levels is one of the unique features of SEP. More than 7,000 volunteers throughout B.C. are involved in approximately 140 projects to enhance salmonids in small streams. SEP maintains six community advisors stationed throughout the province who offer technical expertise and funding advice to those wishing to volunteer their time.

In addition, the Salmonid Enhancement Task Group (SETG) acts as the primary public advisory body for the Minister's Salmonid Enhancement Board. The board, made up of seven private citizens appointed by the minister and five senior civil servants — three with the federal government and two with the provincial government — meets annually with SETG. SETG is composed of representatives from commercial and recreational fishing, native people, processors, consumers, tourism, chambers of commerce, forestry, mining, Hydro and agriculture. The role of the representatives is to provide advice on program direction, and they welcome comments on SEP from the general public.

The Salmonid Enhancement Program is under the direction of:

Dr. N. Ward Falkner  
Executive Director  
Salmonid Enhancement Program  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-6285

Information on any aspect of the Public Involvement Program of SEP in general can be obtained from:

James Boland  
Head, Public Involvement Program  
Salmonid Enhancement Program  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-8253

## Licensing Summary

### Annual Personal Commercial Fishing Licence

*N.B. Changes in Licence Regulations could occur in 1982 as a result of recommendations of The Commission on Pacific Fisheries Policy. The following licence summary was compiled prior to any decisions on the commission's preliminary recommendations.*

Personal Commercial Fishing Licences, valid from January 1 to December 31 and available throughout the year, must be picked up in person from a Fisheries and Oceans office.

A 5-year Personal Commercial Fishing Licence will be available at Vancouver, Prince Rupert, Nanaimo or New Westminster. The wallet-size photo ID of plastic laminate must be obtained in person and is valid from the date of issue to 5 years from that date.

### New Registration Plates

All packing vessels (and only packing vessels) will be issued new Commercial Fishing Vessel registration plates in 1982 at a charge of \$10. The plates will be larger than previously with a different numbering sequence and will render the old packing vessel plates obsolete.

## **Vessel Licence Renewal**

The Department of Fisheries and Oceans mails Vessel Licence Renewal forms to registered owners of fishing vessels in advance of renewal dates.

Vessel owners who do not receive a licence renewal application may obtain one from any Fisheries and Oceans office in British Columbia.

Vessel licences are valid only between January 1 and December 31 of each year and can be obtained any time during the year in which they are valid with the exception of roe herring licences that have a renewal deadline of January 15.

## **Two-area Troll Licence Scheme**

As in 1981, troll gear vessels will opt to fish either in the Gulf of Georgia or outside it when applying for their 1982 salmon licence renewal, in an effort to reduce the chinook harvest in the Gulf of Georgia. The area of choice will be irreversible for the entire season.

## **Native Indian Licences**

In a continued effort to maintain the traditional involvement of native Indians in the salmon fishery, the moratorium on the sale or upgrading of Indian-owned "A" vessels remains in effect.

## **Tidal Waters Sport Fishing Licence**

The tidal waters sport fishing licence needed for the harvest of all "fin fish" incorporates a chinook salmon catch record this year that limits the 1982 catch of chinook to 30 per person.

The licence costs \$5 for residents of Canada and \$20 for non-residents annually. A one-day licence for residents or non-residents costs \$3.50 and a non resident three-day licence costs \$10. Children 15 years of age and under are exempt.

## **Transfer Applications, Change of Ownership and Appeal Procedure**

All applications to transfer commercial vessel licences and to change ownership of vessels must be submitted on forms available at any Fisheries and Oceans office and directed to:

Licence Section  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Where a fisherman's application for action related to his vessel licence fails to comply with the Licence Regulations, he will receive a written reply of denial with an explanation of the rejection. If he wishes to pursue the matter, the fisherman may submit a letter outlining the reasons why his application should be exempt from the regulations, to:

Vessel Licence Appeal Committee  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

If rejected, an appeal by letter may be directed to the Pacific Region Licence Appeal Board established by the Minister of Fisheries and Oceans. This board consists of four retired fishermen and one retired fishery-related person who investigate fishermen's appeals on the Minister's behalf.

Address letters of appeal to:

Chairperson  
Pacific Region Licence Appeal Board  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

*Note: The Chairperson will not accept letters of appeal from fishermen who have not first made their application by the appropriate forms to the Licence Section and by letter of appeal to the Vessel Licence Appeal Committee.*

## Further Information

For further information on registration or licensing, contact your local Fisheries and Oceans office, or:

Licence Section  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1566, or 666-8991

or:

Judy White  
Licence Administrator

Tel: 666-2075

or:

Dick Carson  
A/Licence Manager

Tel: 666-2076

## Special Licences and Permits

### Mariculture/Aquaculture of Salmonids, Marine Plants and Shellfish

Various licences or special permits are required by federal and provincial government agencies involved in fisheries management, fish health, leasing, etc. For detailed information ask for the booklet *A Permit and Licence Guide for The Prospective Aquaculturist* available through the Marine Resources Branch of the B.C. Ministry of Environment, Parliament Buildings, Victoria, B.C. V8V 1X5, Tel: 387-1537.

### Special Harvest or Experimental Licences

Special Category Z licences are required for many developing fisheries including mechanical clam harvesting, plankton and goose barnacles. Applications can be made at the nearest Fisheries and Oceans office. For details regarding the conditions of issue, see the section on *Other Commercial Fisheries* later in this guide.

## Schedule of Licence Fees

Annual Personal Commercial Fishing Licence .....	\$ 10.00	Valid Jan. 1-Dec. 31. Available throughout the year.
5-Year Personal Commercial Fishing Licence .....	\$ 40.00	Available only at Vancouver, Prince Rupert, Nanaimo or New Westminster.
Registration Plates (Issued at time of registration) .....	\$ 10.00	Available throughout the year.

Annual licence tabs for:

Category A (Salmon), where vessel is:

(i) less than 9.14 m in length .....	\$ 200.00	} Valid Jan. 1-Dec. 31. Available throughout the year.
(ii) not less than 9.14 m in length but less than 42.45 m <sup>3</sup> .....	\$ 400.00	
(iii) not less than 42.45 m <sup>3</sup> .....	\$ 800.00	

Category A-I (Indian) (Salmon) .....	\$ 20.00	} Valid Jan. 1-Dec. 31. Available throughout the year.
Category B (Salmon) vessel .....	\$ 20.00	
Category C (Groundfish by hook and line; crab, shrimp, prawn by trap; octopus and eulachons with a vessel, and other species not covered by a restricted entry licence) .....	\$ 10.00	
Category D (Packer) .....	\$ 10.00	
Category E (Abalone) .....	\$ 200.00	
Category G (Geoduck, horse clams [subtidal]) .....	\$ 10.00	
Category H (Roe Herring), operating:		
(i) roe herring gill net .....	\$ 200.00	} Valid Jan. 1-Dec. 31. Deadline for renewal January 15.
(ii) roe herring seine net .....	\$2,000.00	
Category H-I (Indian) (Roe Herring) .....	\$ 10.00	
Category K (Sablefish [Blackcod]) .....	\$ 10.00	} Valid Jan. 1-Dec. 31. Available throughout the year.
Category L (Halibut) .....	\$ 10.00	
Category S (Shrimp Trawl) .....	\$ 10.00	
Category T (Groundfish Trawl) .....	\$ 10.00	
Category Z (See section on <i>Other Commercial Fisheries</i> for species) .....	\$ 10.00	
Replacements for licence tabs, licence plates or 5-year licences lost or illegible .....	\$ 10.00	} Note: new numbers will be issued.
B.C. Tidal Waters Sport Fishing Licence:		
Resident of Canada (annual) .....	\$ 5.00	} Valid Jan. 1-Dec. 31. Available throughout the year.
Non-resident (annual) .....	\$ 20.00	
Resident or non-resident 1-day .....	\$ 3.50	
Non-resident 3-day .....	\$ 10.00	

## Advisory Groups

The following advisory groups provide for a consultative process on the various types of fisheries which occur on the coast. These groups play a very important role in ensuring industry's participation in

important decisions which shape the conduct and future of the fisheries. As management problems grow more complex, the importance of these groups becomes more significant. Industry's involvement is valued and appreciated.

## Pacific Region Fisheries Management Advisory Council to the Minister of Fisheries and Oceans

This council advises the Minister on developing and maintaining policies and plans for long-term management of the resource. The council also provides practical insights for dealing with a wide range of major fisheries management issues as they emerge.

Members are appointed for an indeterminate period by organizations identified by the Minister.

### Chairperson:

The Honourable Roméo LeBlanc  
Minister of Fisheries and Oceans

### Minister's Council

Fisheries Association of B.C.  
Prince Rupert Fishermen's Co-op Association  
Fishing Vessel Owners Association of B.C.  
Pacific Trollers Association  
Pacific Gillnetters Association  
Pacific Coast Fishing Vessel Owners Guild  
B.C. Fishermen's Independent Co-op Association  
Prince Rupert Fishing Vessel Owners Association  
Cooperative Fishermen's Guild  
Northern Trollers Association  
Native Brotherhood of B.C.  
Central Native Fishermen's Cooperative  
United Fishermen and Allied Workers Union  
Sportfish Advisory Board  
Deep Sea Trawlers Association of B.C.

## Pacific Region Fisheries Management Advisory Council

This council was established to provide advice to the Director General on long-term planning and Pacific Region fisheries management issues and policies.

Members of the advisory council are nominated by the various groups of users of the fisheries resource. These groups are the same as those listed under the minister's council with the addition of the Marine Resources Branch of the Ministry of Environment, Province of British Columbia.

### Chairperson:

C. Wayne Shinnars  
Director General, Pacific Region  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-6098

## Central Coast Advisory Committee

Representatives from the local fishermen's union and local native band councils advise on matters relating to fisheries in the central coast area.

**Chairperson:**

Eric Kremer  
Director, Northern Operations  
Room 109-417 2nd Ave. West  
Prince Rupert, B.C.  
V8J 1G8

Tel: 627-8729

## Fraser River Advisory Committee

This committee has representatives from the UFAWU, Pacific Gillnetters Association, the unorganized upriver fishermen, native Indian commercial fishermen, a representative from the sportfishing sector and a representative from the processing industry. The committee advises on conservation and exploitation matters related to the Fraser River and District 1.

**Chairperson:**

Fred Fraser  
Area Manager,  
Fraser River, Northern B.C.  
and Yukon Division  
Room 311, 549 Columbia Street  
New Westminster, B.C.  
V3L 1B3

Tel: 524-7141

## Groundfish Advisory Committee

This committee is composed of individuals from both the fishing and processing sectors, chosen on the basis of expertise. The members function as an advisory committee and provide non-partisan advice on management strategies for all groundfish stocks.

**Chairperson:**

Ed Zyblut  
Manager  
Offshore Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-3167

## Herring Advisory Committee

This committee provides a broad base of advice on the management of Pacific herring. Pre-fishing plans and past fishery results are reviewed annually for the herring roe and food and bait fisheries.

### Chairperson:

Don Wilson  
Director, Field Services Branch  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1751

## Herring Spawn-On-Kelp Advisory Committee

This committee is made up of representatives from licence holders and a representative from industry who advise on the planning and development of the herring spawn-on-kelp fishery.

### Chairperson:

Paul Sprout  
Management Biologist  
Room 109-417 2nd Avenue West  
Prince Rupert, B.C.  
V8J 1G8

Tel: 624-9137

## Johnstone Strait Chum Advisory Committee

Fishermen on this committee are appointed to voice the concerns of the seine and gillnet segments of the Johnstone Strait fishery and the Fraser River gillnet fleet.

The committee advises on chum salmon management in Johnstone Strait and Fraser River.

### Chairpersons:

Dennis Brock  
Area Manager  
South Coast and  
Vancouver Island Division  
Main floor, 60 Front Street  
Nanaimo, B.C.  
V9R 5H7

Tel: 753-1268

Fred Fraser  
Area Manager  
Fraser River, Northern B.C. and Yukon Division  
Room 311, 549 Columbia Street  
New Westminster, B.C.  
V3L 1B3

Tel: 524-7141

## Queen Charlotte Islands Advisory Committee

This committee, which includes representatives from resident vessel owners' groups and the fishing industry, advises on all fisheries matters relating to the Queen Charlotte Islands.

**Chairperson:**

Eric Kremer  
Director, Northern Operations  
Room 109-417 2nd Ave. West  
Prince Rupert, B.C.  
V8J 1G8

Tel: 627-8729

## Skeena River Advisory Committee

This committee, with representatives from provincial government, native Indian organizations and fishermen's associations, advises on development of the fishery in the area and management of runs to the Skeena River.

**Chairperson:**

Eric Kremer  
Director, Northern Operations  
Room 109-417 2nd Ave. West  
Prince Rupert, B.C.  
V8J 1G8

Tel: 627-8729

## Sport Fishing Advisory Board

The Sport Fishing Advisory Board is a 20-member group of representatives from various sectors of the sport fishery. The board advises on tidal and non-tidal sport fish management and on the dissemination of information about these fisheries to the public.

**Chairperson:**

Colin Smith  
4125 Discovery Drive  
Campbell River, B.C.  
V9W 4X6

Tel: 287-3066

## Stikine River Advisory Committee

This committee, which represents the fishermen and processors of the Stikine River, advises on development of the fishery and management of the runs. The committee also advises on international matters.

### Chairperson:

Fred Fraser  
Area Manager  
Fraser River, Northern B.C. and  
Yukon Division  
Room 311, 549 Columbia Street  
New Westminster, B.C.  
V3L 1B3

Tel: 524-7141

## Yukon River Advisory Committee

The Yukon River Advisory Committee represents the fishermen and processors of the Yukon River and advises on development of the fishery and management of the runs, particularly in the Dawson area. The committee also advises on international matters.

### Chairperson:

Gordon Zealand  
District Supervisor, Whitehorse,  
Fraser River, Northern B.C.  
and Yukon Division  
122 Industrial Road  
Whitehorse, Y. T.  
V1A 2T9

Tel: (403) 667-2235

## International North Pacific Fisheries Commission

A convention between Canada, Japan and the United States was signed in Tokyo, May 9, 1952. The convention area was the waters of the North Pacific Ocean including the adjacent seas.

The annex to the convention listed stocks of fish from which Japan and, in one case, Canada agreed to abstain from fishing provided the fish stocks were fully utilized, managed and under scientific study by the other country(ies). The species listed were halibut, herring and salmon in specified areas.

Following the declaration of the 200 mile fishing zones by Canada and the United States in 1977, the convention was renegotiated. It was amended by a protocol signed in

Tokyo, April 25, 1978 and the annex to the amended convention lists areas and starting times, inside and outside the United States Fishery Conservation Zone for the conduct of salmon fishing operations by Japan in the waters of the convention area west of 175° E longitude. The annex also provides for joint research by Japan and the United States on the effect of the Japanese salmon fishery on marine mammal populations.

The International North Pacific Fishery Commission (INPFC) provides a forum for cooperation among the contracting parties for the study, analysis and exchange of scientific information relating to the stocks of non-anadromous species of the convention area.

The commission, composed of four members appointed by each of the three countries, meets at least once a year. The commission's headquarters are on the University of British Columbia campus in Vancouver, British Columbia.

**Current Canadian Commissioners:**

H.D. Johnston, Department of Fisheries  
and Oceans  
J.A. Garcia, Bamfield, B.C.  
D.F. Miller, Vancouver, B.C.  
F.Z. Florian, Prince Rupert, B.C.

**Contact:**

Cliff Forrester  
Executive Director  
International North Pacific Fisheries Commission  
6640 Northwest Marine Drive  
Vancouver, B.C.  
V6T 1X2

Tel: 228-1128

## International Pacific Halibut Commission

A convention between Canada and the United States of America for the preservation of the halibut fishery of the Northern Pacific Ocean and Bering Sea provides for the establishment and maintenance of the International Pacific Halibut Commission (IPHC).

The IPHC is charged with developing and maintaining halibut stocks at a level which will provide the maximum sustainable yield. Functions which the commission performs in carrying out this mandate include: the study of the life history of halibut; the effect of gear; the establishment of regulatory areas and catch quotas, and the collection of catch statistics.

Six commissioners are appointed to oversee the activities of the commission, three from Canada and three from the United States.

**Canadian Commissioners:**

Michael Hunter — Chairperson  
Peter C. Wallin  
Don McLeod

A director supervises the scientific staff which collects and analyzes the biological data needed to manage the halibut fishery. The commissioners annually review the regulatory proposals made by the scientific staff and consider proposals from industry and the conference board that represents vessel owners and fishermen. The regulatory measures adopted by the commission are submitted to the two governments for approval and implementation.

**Contact:**

Donald A. McCaughran  
Director, International Pacific  
Halibut Commission  
P.O. Box 5009, University Station  
Seattle, Wa 98105  
U.S.A.

Tel: (206) 634-1838

# International Pacific Salmon Fisheries Commission

A treaty was ratified in 1937 between Canada and the United States for the protection, preservation and extension of the sockeye salmon fisheries of the Fraser River system. A protocol, signed in 1956, added pink salmon to the treaty.

The International Pacific Salmon Fisheries Commission (IPSFC) is responsible for the conservation of the sockeye and pink salmon of the Fraser River including the management, from June until the fall, of Canadian and U.S. salmon fisheries in a convention area that includes the Fraser River, the U.S. and Canadian portions of the Southern Strait of Georgia and Juan de Fuca Strait, and the high seas westward of the west coast of Canada and the United States between 48 and 49 degrees north latitude. The commission is required to divide the allowable catch of the two species within the convention area equally between the fishermen of the two countries.

Six commissioners are appointed—three by the government of Canada and three by the government of the United States.

Canadian Commissioners:

C. Wayne Shinnars  
Alvin Dixon  
Mike Forrest

## Contact:

A.C. (Al) Cooper  
Director  
International Pacific Salmon Fisheries  
Commission  
P.O. Box 30  
New Westminster, B.C.  
V3L 4X9

Tel: 521-3771

## Fishery Management Plans—Introduction

### Management Plan Outlines

The department has prepared the following management plan outlines so that fishermen know at the earliest possible date the general manner in which each fishery will be managed this year.

It should be noted that each summary is presented only as a general *proposal*. The details of the summaries should not be interpreted as final; nor are they complete in all respects. As further information becomes available, such as stock assessments and economic factors, the fishing plans may be altered without notice.

### Management Plan Implementation

The director general, or in some cases, a fishery officer, may open or close areas (or portions of areas) for conservation purposes, or in the case of shellfish or goose barnacles, for contamination or high levels of PSP (paralytic shellfish poisoning). This is done through public

notices which are widely distributed throughout the industry and displayed in post offices and other public areas. Local offices of the department should be contacted for the latest information. As well, the department's Operations Centre maintains a service of region-wide management plan updating.

### Licensing Requirements

As many of the fisheries in the following tables have limited entry or require special permit, the *Licensing Summary* in this guide should be noted.

### Weights and Measures

Weights and measures are in metric. A conversion chart appears at the end of the book as a guide to fishermen for their own calculations.

# Salmon Expectations and Proposed Fishing Patterns

The following salmon expectations and proposed fishing patterns are designed to assist fishermen and the fishing industry plan the 1982 season's operations.

These expectations have been based on recorded spawning escapements in cycle years, water flows, weather and environmental conditions, and observations of fry survival in the spring following the brood years. Details of regulatory controls are subject to revision as the season progresses, dependent on the strength of the runs.

Adjustment of weekly opening times and fishing periods will be considered to ensure harvesting and processing are consistent with good management practices.

The following information clarifies and highlights some of the changes introduced in 1982 and explains the general principles of fishery management as outlined in the proposed fishing patterns.

## Interpreting the Expectations and Proposed Fishing Patterns

1. The expectations and proposed fishing patterns are proposals only, based on the best possible information available at the time of publication. Changes may occur after further consultation with advisory groups, or as an outcome of consultations between Canadian and U.S. officials in late January, 1982. All sections are subject to change without notice.
2. The expectations and fishing patterns refer only to the *commercial* salmon fishery. Sport fishery controls are outlined in the *1982 British Columbia Tidal Waters Sport Fishing Guide*, published by the Department of Fisheries and Oceans.
3. "Expected Escapement" is the estimate of the actual number of fish expected to reach the spawning grounds. "Optimum Escapement" is the estimate of the optimum, or desired, number of fish that the spawning grounds could ideally support.

It should be noted that in those areas where the catch is primarily of passing or non-local stocks, the escapement figures cannot be related to the actual catch.

4. All dates used in the proposed fishing patterns are inclusive.
5. "UFN" means "until further notice."
6. Weights and measures are in metric. A conversion chart with approximate equivalents of metric and imperial is at the end of the book for your convenience.

## Basic Principles of the Expectations and Proposed Fishing Patterns

1. Net openings commence at 1800 hours on Sunday of the week specified, unless otherwise noted.
2. Trolling commences seven days a week on April 15, unless otherwise noted.
3. Whenever possible, a minimum of 24 hours notice will be given; more notice whenever practical.
4. During periods of extended closure, stock assessment by test fishing, for example, will continue to ensure that fishing opportunities are not lost.
5. Interception net fisheries will be restricted to no more than two days per week and may be reduced or closed if chinooks are the target species.
6. After April 15, 1982, large mesh gillnet fisheries directed on chinook will be restricted to no more than two days per week where such fisheries are permitted.
7. In view of the depleted state of natural chinook stocks, controls instituted in 1981 will be maintained for 1982. It may be necessary to impose fishery restrictions additional to those indicated.

8. The fall bunt mesh in purse seines will be a minimum of 100 mm measured from inside one knot to inside the knot diagonally opposite. Purse seine fishermen are requested to relax the pressure on the bunt for several minutes prior to landing the catch or retrieving the bunt. This will help the escape of juvenile salmon, otherwise trapped in the meshes.
9. Following promulgation of the appropriate legislation, the department will re-examine various stocks and areas with a view to opening specific areas for specific gear. It is anticipated that openings would only occur in areas that cannot support the pressure of the entire fleet, or where other conservation concerns may apply, but where small surpluses are present.

### **Regulations for the Troll Fishery**

Regulations for the management of the troll fishery have been introduced for conservation purposes and to assist in the orderly harvest of the resource.

### **Two-Area Troll Licensing**

All troll licence holders must elect to fish either inside or outside the Gulf of Georgia. This election is irreversible in 1982.

Fishermen electing for an inside licence will receive an inside trolling privilege only and will not be eligible to participate in any other salmon fishery on the coast.

Fishermen electing for an outside licence may participate in any troll or net fishery on the coast except the troll fishery in the Strait of Georgia. All licensed trollers on the coast may fish in the "overlap" area in the Johnstone Strait and the Queen Charlotte Strait, using whatever gear they are licensed for, subject to the conditions of applicable openings. See the following chart for a description of the troll areas.

### **Other Regulations:**

- trolling for chinook on a seven day per week basis commences April 15;
- trolling for chinook inside the surfline in Area 23 (Barkley Sound) will remain closed until April 15;
- trolling for coho on a seven day per week basis commences July 1 unless otherwise noted;
- spot area closures for the conservation of immature chinook and pre-season coho will be implemented again in 1982;
- trolling closes on September 30, 1982;
- barbless hooks will be required from the opening of the chinook season until July 1 except on 15 cm or larger plugs;
- treble hooks will not be permitted from the opening of the chinook season until July 1;
- the six-gurdy regulation implemented in 1981 will be retained in 1982.

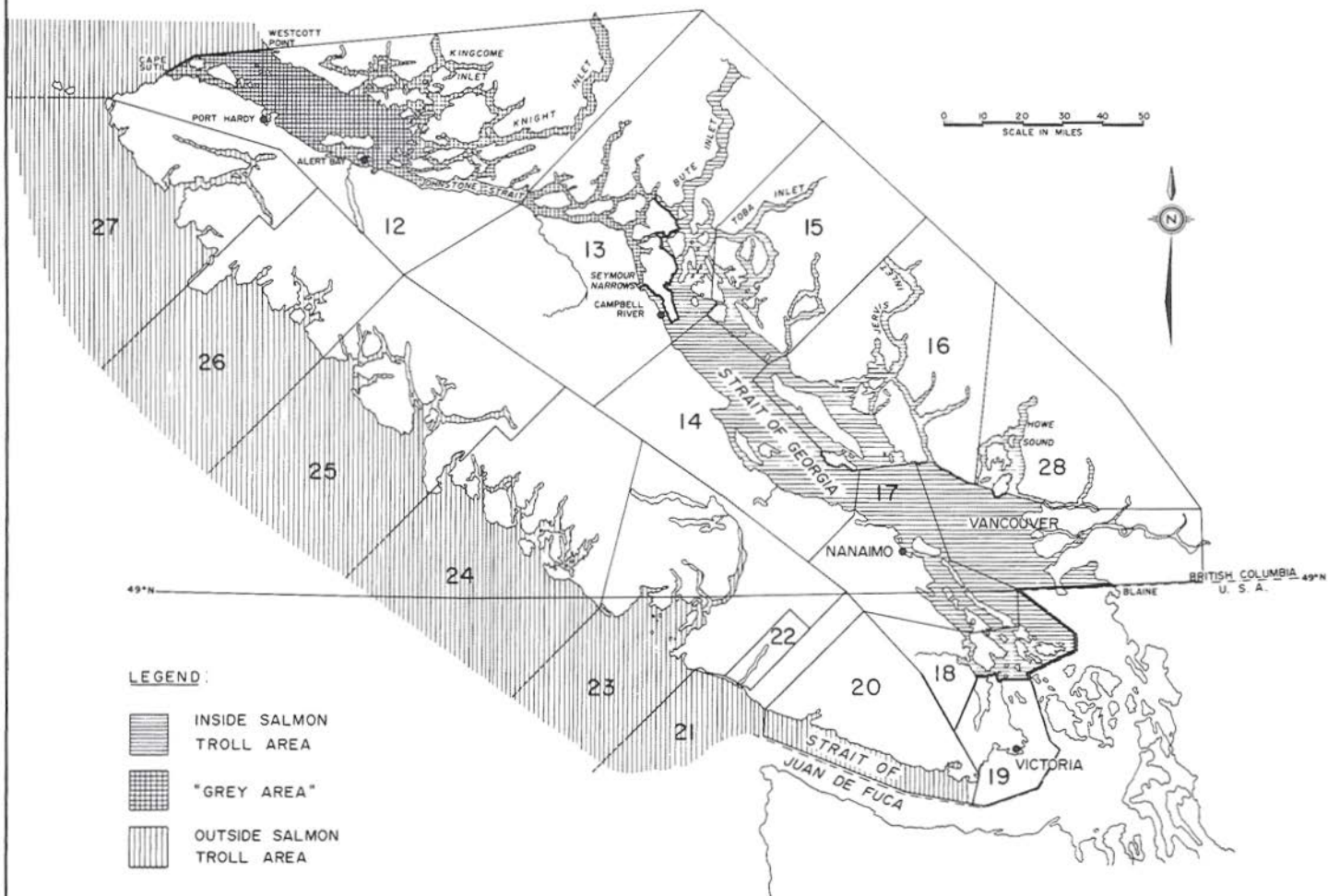
### **Canada/USA Salmon Negotiations**

The adoption of other regulatory measures is subject to the outcome of administrative consultations between Canadian and U.S. officials in late January 1982.




FOR SPECIFIC INFORMATION ON AREAS ETC.  
CONSULT THE REGULATIONS OR CONTACT  
A LOCAL DEPARTMENT OF FISHERIES AND  
OCEANS OFFICE.

LOCAL CLOSED AREAS ARE NOT DEPICTED  
ON THIS MAP.

## INSIDE-OUTSIDE TROLL AREAS



### LEGEND:

-  INSIDE SALMON TROLL AREA
-  "GREY AREA"
-  OUTSIDE SALMON TROLL AREA

# Salmon Expectations and Proposed Fishing Patterns

## AREA 1

### QUEEN CHARLOTTE ISLANDS (NORTH)

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT		1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1978)	6,900	20,300	25,000	55,000	No anticipated openings on local stocks. Limited Indian Food fishery.
	10 year average	35,300	10 year average 36,200			
Coho	(1978)	267,300	61,300	80,000	150,000	No directed net openings anticipated.
	10 year average	117,000	10 year average 55,300			
Pink	(1980)*	738,900	290,900	300,000	1,000,000	No anticipated openings on local stocks.
	5 cycle average	251,700	5 cycle average 264,900			
Chum	(1978)	8,800	56,200	60,000	85,000	No anticipated openings.
	10 year average	32,100	10 year average 41,900			
Chinook	(1978)**	73,600	600	1,000	5,000	No anticipated openings.
	10 year average	64,900	10 year average 800			

\* includes 721,600 troll

\*\* includes 71,300 troll

### PROPOSED FISHING PATTERN

**OBJECTIVE:** To conserve local stocks. Net fishing times, intended to provide for local fisheries on passing stocks, will be restricted so as not to encourage accelerated interceptions.

**NOTE:** The troll catch of pinks will be subjected to limitations under the Canada/U.S.A. salmon agreement discussions which are yet to be concluded.

### EFFECTIVE DATE ACTION

April 15 - UFN	Masset Inlet, Masset Sound and Naden Harbour closed to all gear.
July 4 - August 28	Open to net fishing 2 days per week.
July 25 - August 28	Closed to nets east of a line true north from Shag Rock.
August 28	Closed to nets for balance of season.

**AREA 2E  
EAST COAST QUEEN CHARLOTTE ISLANDS**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	1,300		10,500	15,000	No openings anticipated. Limited Indian Food fishery.
	(1978)	3,400		6,000		
	10 year average	1,700	10 year average	10,200		
Coho	(1978)*	153,400		59,600		No directed coho net fishery anticipated. Escapement figures not considered reliable.
	(1979)**	105,900		28,300		
	10 year average	104,200	10 year average	40,800		
Pink	(1980)***	34,300		315,200	630,000	Limited openings in Juan Perez Sound are possible.
	5 cycle average	517,700	5 cycle average	511,300	1,100,000	
Chum	(1977)	171,400		161,000	191,000	No openings anticipated.
	(1978)	116,200		210,200	400,000	
	(1979)	1,000 (troll)		43,200		
	10 year average	157,300	10 year average	153,000		

\*includes 143,500 troll

\*\*includes 104,200 troll

\*\*\*includes 15,900 troll

**PROPOSED FISHING PATTERN**

**EFFECTIVE DATE**

**ACTION**

August 22 - August 28

Anticipated 2-day opening in Juan Perez Sound if pink stocks warrant harvesting.

**AREA 2W  
WEST COAST QUEEN CHARLOTTE ISLANDS**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Pink	(1980)	47,200		165,000	268,000	Small surpluses are expected in Kaisun, Kano and the Government Creek areas; limited openings are possible.
	5 cycle average	217,200	5 cycle average	165,400	500,000	
Chum	(1978)	4,000		38,100	72,000	No openings anticipated.
	(1979)	NIL		49,609	200,000	
	5 year average	12,100	5 year average	51,600		

**PROPOSED FISHING PATTERN**

**OBJECTIVE:** To conserve local stocks. Net fishing times, intended to provide for local fisheries on passing stocks, will be restricted so as not to encourage accelerated interceptions and to limit the chinook harvest to less than 5,000.

**NOTE:** Extensions will be considered during the times of increased catches. During these extended days only the outer portion will be extended, that is Boulder Bay will be closed.

<b>EFFECTIVE DATE</b>	<b>ACTION</b>
July 4 - August 7	Open to net fishing 1 day per week in Rennell Sound and Kano Inlet.
August 22 - August 28	Anticipated open to nets 2 days in Kaisun, Kano Inlet and Government Creek areas if pink stocks warrant harvesting.

**AREA 3  
NASS RIVER**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
			EXPECTED	OPTIMUM	
Sockeye	(1977)	501,600	401,000	220,000	Above average return of 5 year olds (major age class).
	(1978)	221,400	145,000		
	10 year average	205,300	10 year average	204,400	
Coho	(1979)	52,200	20,500	30,000	Below average return based on escapement.
	10 year average	71,300	10 year average	25,600	
Pink	(1980)	924,200	130,400	220,000	Average run expected particularly on later returning stocks. Good winter conditions.
	10 cycle average	669,900	10 cycle average	220,900	
Chum	(1978)	151,700	72,500	75,000	Below average returns due to flooding in major systems in 1978.
	10 year average	173,700	10 year average	60,700	
Chinook	(1977)	23,500	16,300	20,000	Stocks remain well below historic spawning levels.
	(1978)	35,000	12,400	30,000	
	10 year average	25,900	10 year average	10,400	

**PROPOSED FISHING PATTERN**

**NOTE:** Fishing patterns for Areas 3X and 3Y for pink salmon and Portland Canal for chum salmon will be subject to limitations under the Canada/USA salmon agreement. Discussions which are yet to be concluded.

<b>EFFECTIVE DATE</b>	<b>ACTION</b>
May 2	Area 3, inside Whitley Point closed to trolling for conservation of local chinook stocks. Area 3 outside Whitley Point open to trolling 7 days per week.
June 13	Trolling inside Whitley Point restricted to net fishing times. Areas 3Y and 3Z open to net fishing 2 days per week inside a line from Maskelyne Island to Pointer Rocks to Whitley Point then true north to the International Boundary. – Observatory Inlet closed to net fishing until June 27.

- Maximum mesh size for gillnets is 136 mm until June 27.
- Work Channel, Khutzeymateen Inlet, Steamer Pass and Nasoga Gulf closed to net fishing and trolling for the remainder of the season.

**AREA 4  
LOWER SKEENA**

SPECIES	CYCLE YEAR	CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	859,000		952,000	1,000,000	Slightly below average return is expected and a catch in the order of .5 million is anticipated.
	(1978)	406,000		421,000	1,000,000	
	10 year average	870,000	10 year average	823,000		
Coho	(1979)	68,000		26,000	30,000	A weak return is expected.
	10 year average	74,000	10 year average	49,000	100,000	
Pink	(1980)	184,000		745,000	1,000,000	An average return expected and a catch in the order of .5 million is anticipated.
	5 cycle average	350,000	5 cycle average	850,000	1,000,000	
Chum	(1978)	62,000		8,000	10,000	Poor return expected.
	10 year average	60,000	10 year average	14,000	50,000	
Chinook	(1977)	24,000		28,000	28,000	Poor return expected.
	(1978)	14,000		22,000	50,000	
	10 year average	30,000	10 year average	23,000		

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
April 15	Open to trolling in sub-areas 4-1, 4-2 and 4-3 only.
July 4 - Mid-August	Open to gillnets—maximum mesh size 136 mm. Open to trolling in 4-4 and 4-5 during net times only.
July 4	Anticipated 1-day gillnet opening.
July 11	Anticipated 2-day gillnet opening.
July 18	Anticipated 2-day net opening, seines to be permitted in 4-1, 4-2, 4-3 and 4-4 this week only.
July 25	Anticipated 3-day gillnet opening.
August 1	Anticipated 1-day gillnet opening.
August 8	Anticipated 2-day gillnet opening.
August 15	Anticipated 1-day gillnet opening.
August 22 - UFN	Closed for conservation of Skeena coho and coastal pink stocks.

**AREA 5  
GRENVILLE/PRINCIPE**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
			EXPECTED	OPTIMUM	
Sockeye	(1977)	28,800	11,400	35,000	75,000 Light; age 4 should be average but 5 year olds will be weak. (Age 5 is dominant age class.)
	(1978)	34,700	28,600		
	9 year average	25,500	9 year average	27,000	
Coho	(1979)	26,200	16,600	35,000	35,000 A below average return is expected.
	9 year average	51,600	9 year average	20,000	
Pink	(1980)	480,100	225,800	275,000	300,000 Average return. Good spawning and incubation conditions.
	2 cycle average	374,000	2 cycle average	294,000	
Chum	(1978)	40,100	13,800	35,000	35,000 Below average to both Principe Channel and west coast of Banks Island.
	9 year average	22,700	9 year average	19,700	

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
April 15	Regular stream boundaries in effect.
July 4	Open to net fishing 2 days per week in Areas 5-1, 5-2 and 5-4, no mesh restriction. Petrel Channel closed below Strouts Point and Principe Channel closed below Baird Point.
July 25	Sub-areas 5-1 and 5-2 regulated by Skeena Salmon Management Committee until local pink stocks become predominant. Expect 3 week closure.
August 15	Sub-areas 5-1, 5-2, 5-3 and 5-4 expected to be open 2 days per week to harvest local pink stocks.
August 29	Sub-areas 5-3 and 5-4 closed to protect local coho and chum. 5-1 and 5-2 open 2 days to harvest local pink stocks.
September 5	Area 5 closed to net fishing.
Full Season	Grenville Channel, Union Pass and Ala Pass closed to net fishing.

**AREA 6  
BUTEDALE**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
			EXPECTED	OPTIMUM	
Sockeye	(1977)	33,200	24,000	20,000	35,000 Local returns are expected to be average. Total commercial catch will depend upon passing stocks and on fishing patterns implemented to protect early runs of other species. Probable catch between 40 - 60,000 pieces.
	(1978)	57,000	13,000		
	10 year average	53,900	10 year average	21,750	

Coho	(1979)* 10 year average	55,800 53,900	10 year average	48,500 46,600	50,000	85,000	Local return expected to be better than average. Total commercial catch will depend on conservation measures protecting other species and on strength of passing stocks. Probable catch 70 - 80,000.
Pink	(1980) 5 cycle average	2,825,000 2,313,000	5 cycle average	739,000 793,000	900,000	1,500,000	Returns are expected to be below average with the main strength in the latter part of the season. Total run is anticipated to be in the 2.5 to 4 million range, allowing for a commercial catch of 1.75 - 3 million and most probably in the order of 2 million.
Chum	(1978) 10 year average	225,000 145,500	10 year average	84,000 146,000	150,000	350,000	Very light returns expected. The expected total run is between 125,000 and 200,000 and the probable incidental catch while harvesting pink will be between 40,000 - 80,000.
Chinook	(1977)** (1978)** 10 year average	17,500 37,900 32,500	10 year average	4,000 6,000 10,000	7,000	25,000	Light to very light returns expected. The commercial catch will depend almost entirely on the strength of passing stocks.

\*includes 19,400 troll

\*\*includes 14,000 troll

\*\*\*includes 17,900 troll

#### PROPOSED FISHING PATTERN

**NOTE:** In the event that chum runs are extremely light and pink runs are of such strength that a problem of over-fishing chum while harvesting pink salmon arises, it may be necessary to implement additional conservation measures for chum.

#### EFFECTIVE DATE

#### ACTION

April 15 - UFN	Gardner Canal, Douglas Channel, Klekane Inlet, Aaltanhash Inlet, Khutze Inlet, Green Inlet, Racey Inlet, Chapple Inlet and Loreda Inlet will be closed.
May 16 - July 11	Closed to all fishing except trolling 7 days per week seaward of Price Island true east of Luard Shoal light to Lombard Point on Aristazabal Island then along the southeasterly, westerly and northeasterly shores of Aristazabal Island to Baker Point to McPhee Point on Princess Royal Island, to Oswald Point on Rennison Island to Goodacre Point on Dewdney Island then to Cox Point on Trutch Island to Terror Point on Banks Island.
July 11 - UFN	Open to net fishing 1 day per week in open portions of Area 6. No mesh restrictions. In order to protect expected weak returns of pink and chum to streams lying easterly of Princess Royal Island, the waters of Fraser Reach, Graham Reach and Tolmie Channel northerly of Split Head will remain closed to all gear UFN. Net fishing will be prohibited UFN in those waters lying westerly of Price Island and southerly of Luard Shoal light.

July 11 - UFN

Trolling restricted to net times and areas except permitted 7 days per week seaward of the westerly shore of Price Island true east to Luard Shoal light to Lombard Point on Aristazabal Island then along the shore of Aristazabal Island to Baker Point to McPhee Point on Princess Royal Island to Oswald Point on Rennison Island to Goodacre Point on Dewdney Island to Cox Point on Trutch Island to Terror Point on Banks Island.

End August - early September Closed to net fishing.

**AREA 7  
BELLA BELLA**

SPECIES	CYCLE YEAR	CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	44,500		7,500	10,000	Average returns of local stocks expected and will probably only meet local food fishing requirements.
	(1978)	34,000		8,000	20,000	
	10 year average	54,600	10 year average	8,800		
Coho	(1979)	115,000		8,400	10,000	Returns of local stocks are expected to be comparable to brood year.
	10 year average	153,000	10 year average	8,700	20,000	
Pink	(1980)	453,000		221,000	350,000	Return expected to be comparable to brood year but this is dependent upon egg survival in the December 1980 floods (effects are unknown).
	5 cycle average	609,000	5 cycle average	276,000	350,000	
Chum	(1978)	106,000		268,000	350,000	An average return is expected — comparable to brood year.
	10 year average	380,000	10 year average	207,500	350,000	

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
April 15 - June 13	Trolling permitted 7 days per week only in Milbanke Sound and Seaforth Channel proper (boundary in Raymond Passage at Hochstader Basin to Stryker Island opposite and in Hunter Channel from Soulsby Point to Hunter Island opposite).
April 15 - July 11	Closed to net fishing.
June 14 - UFN	Open to trolling 7 days per week seaward of Day Point to Cape Swaine line, and in Raymond Passage seaward of Hochstader Basin to Stryker Island opposite and in Hunter Channel seaward of Soulsby Point on Campbell Island to Hunter Island opposite. Inside these boundaries trolling is restricted to net fishing times and areas.
July 11 - August 1	Net fishing (no mesh restriction) permitted 1 day per week in the following areas: <ul style="list-style-type: none"> <li>- Sheep Passage easterly of Carter Point to Roderick Island opposite. Mussel Inlet open to Carse Point to the shore opposite.</li> <li>- Mathieson Channel north of Maill Point on Susan Island to Urses Point, with Jackson Pass closed at its easterly entrance. Kynock Inlet closed at its westerly entrance to conserve sockeye stocks.</li> <li>- Seaforth Channel from Chatfield Island near Wood Island to Dumas Point on Cunningham Island to Dryad Point light then along the shore of Campbell Island to Kintail Point to Hose Point then along the southerly shore of Seaforth</li> </ul>

Channel to Cape Swaine to Robb Point on Ivory Island to Fisher Point on Don Peninsula then along the southerly shore of Don Peninsula to Food Islets to Hyndman Reef to Grief Island to Early Point to Yeo Island.  
 – Return Channel open with Bullock Channel and Briggs Inlet closed at their southerly entrances.  
 – Roscoe Inlet south of Roscoe Point to Clatse Point.  
 – Johnson Channel open with Gunboat Pass closed from Madigan Point to Georgia Point.  
 – Milbanke Sound closed until August 1 for the conservation of Area 6 and 8 chum and Area 8 pink stocks.

July 14 - August 31 Waters south of Superstition Point to the north shore of Hakai Pass (Kildidit Sound) will close to salmon fishing by any means (both commercial and sport).

August 1 - UFN Net fishing permitted 1 day per week in the following areas:  
 – Finlayson Channel south of Boat Bluff;  
 – Milbanke Sound and Seaforth Channel westerly of Dryad Point to Dumas Point. Possible closure of St. John's Harbour shore of Milbanke Sound for chinook conservation.  
 All other areas closed to net fishing.

End August - Early September Closed to net fishing. Further openings depend upon the strength of local chum stocks.

**AREA 8  
 BELLA COOLA**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT		1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	88,300		45,800	75,000	Below average return expected due to low escapement in 1978. Special conservation measures may be necessary depending upon fleet size.
	(1978)	50,800		33,000	100,000	
	10 year average	151,000	10 year average	69,000		
Coho	(1979)	47,700		50,000	50,000	Less than optimum return expected. Only an incidental catch is anticipated. No fall fishery is expected.
	10 year average	42,000	10 year average	52,000	75,000	
Pink	(1980)	860,000		1,128,000	300,000	Poor returns expected due to severe egg mortalities in the September and December 1980 floods. No extended fishery is anticipated unless early fishing indicates suitable stocks. Koeeye River had a poor escapement in 1980 and no fishery is anticipated.
	5 cycle average	1,700,000	5 cycle average	1,511,600	2,000,000	
Chum	(1978)	125,400		49,000	90,000	Brood year escapement is one of the worst on record and chum escapements have been declining steadily over the past 10 years. No fishery anticipated unless early fishing indicates suitable stock strength. Snootli Creek Hatchery expects 2,500 back as 3 year olds.
	10 year average	212,000	10 year average	135,600	200,000	

Chinook	(1977)	9,400*		34,000	15,000	35,000	Less than average returns expected. Returns to date from the 1977 brood were among the worst on record. This, combined with general decline of stocks locally and coastwide, necessitates close monitoring of the 1982 fishery. The expected gillnet catch will not likely exceed 4-5,000 pieces. If the run returns are less than expected, closures must be anticipated.
	(1978)	11,000**		24,000			
	10 year average	12,000***	10 year average	20,000			

\* 5,500 up to June 31  
\*\* 6,300 up to June 31  
\*\*\* 5,900 up to June 31

N.B. Figures do not include Jacks.

**PROPOSED FISHING PATTERN**

<b>EFFECTIVE DATE</b>	<b>ACTION</b>
April 15 - UFN	Kwatna Inlet closed to all gear.
April 15 - UFN	Trolling times and places to coincide with net fishing times and places except that trolling permitted 7 days per week seaward of the southern tip of Stirling Island to Odium Point on Odium Island to the western point of Starfish Island then true south to Calvert Island then along the western shore of Calvert Island to Herbert Point.
May 16	<b>NOTE:</b> Net fishing prohibited seaward of this line for the entire season. Open to gillnets 1 day per week. Minimum mesh size 203 mm. Bella Coola gillnet area top boundary will be at Loiyentsi Point ( 10 Mile) to Tallheo Point to prevent heavy seal predation. Dean Channel top boundary at Engerbrightson Point.
July 4 - UFN	Lower portions of Burke Channel and Dean Channel closed to all fishing. Gillnet mesh restriction rescinded. Gillnet fishing open 1 day per week. Dean Channel gillnet area top boundary at Engerbrightson Point and the Bella Coola top boundary at Tallheo Cannery. Fitz Hugh Sound closed south of Koeye-Bailey Points.
July 11	Open to seines for 1 day for this week only in open portion. Fitz Hugh Sound closed south of Koeye-Bailey Points.
July 18	Bella Coola and Dean Channel gillnet areas open 1 day to harvest sockeye.
July 25	12-hour opening for seines and gillnets to determine the strength of pink and chum stocks. Further openings will be dependent upon stock strength.
	<b>NOTE:</b> Should either of these species prove strong enough for a fishery, then a mesh restriction will be imposed to protect the other species.

**AREA 9  
RIVERS INLET**

<b>SPECIES</b>	<b>CYCLE YEAR CATCH</b>	<b>CYCLE YEAR ESCAPEMENT</b>	<b>1982 ESCAPEMENT</b>		<b>EXPECTATIONS</b>
			<b>EXPECTED</b>	<b>OPTIMUM</b>	
Sockeye	(1977)	662,000	250,000	700,000	Total return of 700,000 expected; no fishery anticipated.
	(1978)	579,000	375,000	1,000,000	
	10 year average	407,000	10 year average	400,000	

Coho	(1979)	Net	5,500	10 year average	5,000	10,000	40,000	Less than optimum return expected; no directed fishery anticipated.		
		Troll	13,500							
		Total	19,000							
10 year av.	Net	33,000	10 year average	5,000						
		Troll	13,000							
		Total	46,000							
Pink	(1980)		22,000	5 cycle average	135,800	70,000	225,000	Egg mortality likely due to 1980 floods; below average return expected and no fishery anticipated.		
	5 cycle average		400,000						5 cycle average	244,800
Chum	(1978)		57,000	10 year average	61,000	75,000	75,000	A slightly above average return expected and a limited gillnet fishery is anticipated.		
	10 year average		45,000						10 year average	48,000
Chinook	(1977)		36,000	10 year average	2,300	4,500	7,500	Less than optimum return expected; no directed fishery anticipated.		
	(1978)		15,000						10 year average	2,800
	10 year average		18,000						10 year average	2,500

#### PROPOSED FISHING PATTERN

##### EFFECTIVE DATE

##### ACTION

April 15 - July 3

July 4 - July 25

Open to trolling 7 days per week seaward of Cranston Point to Dugout Rock light to Clark Point on Calvert Island.

Open to trolling 7 days per week seaward of Clark Point on Calvert Island to Secretary Point on Hope Island. Inside this line trolling restricted to net fishing times and areas only.

July 25 - UFN

Early August

Open to trolling 7 days per week seaward of Cranston Point to Dugout Rock light to Clark Point on Calvert Island.

A limited chum gillnet fishery (12 hours per week) is anticipated to commence in early August; possible mesh restriction in effect for conservation of pink.

#### AREA 10

##### SMITH INLET

SPECIES	CYCLE YEAR	CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS		
				EXPECTED	OPTIMUM			
Sockeye	(1977)	46,000	10 year average	129,000	200,000	200,000	Total return of 260,000 expected and a limited fishery with a catch in the order of 60,000 is anticipated.	
	(1978)	234,300		78,000				
	10 year average	106,000		75,000				
Coho	(1979)	Net	10 year average	1,500	3,000	5,000	A less than optimum return expected; no directed fishery anticipated.	
		Troll						11,500
		Total						16,500
	10 year av.	Net	12,500	10 year average	2,200			
		Troll	15,500					
		Total						
		28,000						

Pink	(1980) 5 cycle average	2,300 22,500	5 cycle average	2,500 11,500	2,000	50,000	Extremely poor return expected due to light escapement and flooding in 1980; no directed fishery anticipated.
Chum	(1978) 10 year average	38,500 29,000	10 year average	36,000 27,000	55,000	55,000	Total return of 65,000 expected and a limited fishery with a catch in the order of 10,000 is anticipated.
Chinook	(1977) (1978) 10 year average	5,000 6,000 11,500	10 year average	1,100 2,100 1,200	1,500	2,000	An average return is expected; no directed fishery anticipated.

#### PROPOSED FISHING PATTERN

EFFECTIVE DATE	ACTION
April 15 - July 3	Open to trolling 7 days per week seaward of Extended Point to Ann Island to Table Island to Milthorp Point. Inside this line, trolling open during net time and places only.
July 4 - July 25	Open to trolling 7 days per week seaward of Clark Point on Calvert Island to Secretary Point on Hope Island. Inside this line trolling restricted to net fishing times and areas only.
Early July July 25 - UFN	A limited sockeye gillnet fishery (12 hours per week) is anticipated to commence in early July. Open to trolling 7 days per week seaward of Extended Point to Ann Island to Table Island to Milthorp Point. Trolling inside this line during net times and places only.
Early August	A limited chum gillnet fishery (12 hours per week) is anticipated to commence in early August; possible mesh restriction in effect for conservation of pink.

#### AREA 11 SEYMOUR/BELIZE

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS	
			EXPECTED	OPTIMUM		
Coho	(1979) 10 year average	144,200 135,000	300 2,051	800	25,000	Brood year escapement lowest on record. No local fishery expected.
Chum	(1978) (1979) 10 year average	34,000 17,000 14,800	117,200 41,800	125,000	125,000	Cycle year escapements good. Average return expected.

## PROPOSED FISHING PATTERN

EFFECTIVE DATE	ACTION
April 15 - UFN	Mainland Inlets closed to all gear.
April 15 - July 25	Closed to net fishing.
July 4 - July 25	Trolling closed inside Clark Point to Secretary Point.
July 25 - August 1	Gillnet fishing permitted same times as Area 12. Mainland Inlets closed (Johnson Point—Harvell Point).
July 25 - UFN	Trolling permitted 7 days per week inside Clark Point to Secretary Point. Non-retention of sockeye, pink and chum except during net fishing times. Mainland inlets closed.
August 1 - August 18	Gillnets permitted with minimum mesh size of 149 mm extended measure. Mainland inlets remain closed.
August 8 - September 5	Gillnets permitted 1 day per week inside the mainland inlets. Seymour Inlet will be open to Eclipse Narrows. The first narrows will be closed by the regular box boundary. Belize Inlet open to Allison Sound. Mereworth Sound will remain closed.
August 8 - September 5	Mainland inlets closed to trolling except during net fishing times.

## AREA 12

### ALERT BAY/PORT HARDY-JOHNSTONE STRAITS

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
			EXPECTED	OPTIMUM	
Sockeye	(1977)	443,000	23,000	31,000	No fishery anticipated on local stocks.
	(1978)	2,340,000	16,000		
	10 year average	679,000	10 year average	60,000	
Coho	(1979)	119,000	27,000	81,000	Below average return expected. Special conservation measures will be required.
	10 year average	165,000	10 year average	43,000	
Pink	(1980)	1,040,000	1,309,000	1,309,000	Heavy flooding December 1980. Poor return anticipated. Local streams will require protection.
	5 cycle average	1,579,000	5 cycle average	939,000	
Chum	(1978)	715,000	84,000	180,000	Below optimum returns expected for all systems. Local streams will require protection. Study Area return expected sufficient for escapement and limited fisheries.
	10 year average	410,000	10 year average	124,000	
Chinook	(1977)	72,000	13,000	17,000	Minimal return expected. Extreme conservation measures to be imposed.
	(1978)	75,000	6,000	40,000	
	10 year average	54,000	10 year average	10,000	

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
April 15 - July 4	Trolling permitted 7 days per week. Mainland inlets closed to all gear. Mainland inlets boundary: Boyles Point on the mainland to Growler Point on Broughton Island to Success Point on Bonwick Island to Bare Hill on Gilford Island then due south to West Cracroft Island then along the shore of West Cracroft Island to the entrance to Port Harvey to Domville Point on the mainland shore opposite then along the mainland shore to Neville Point at the entrance to Port Neville to Ransome Point opposite.
July 4 - UFN	Normal stream boundaries in effect. Mainland inlets, Growler Cove and Parsons Bay closed to all gear.
July 4 - July 25	Closed north of Lewis Point for protection of early Nimpkish sockeye. Fishing time for seines from 1800 hours Sunday until 1800 hours Tuesday and for gillnets from 1800 hours Sunday until 0600 hours Wednesday each week in open areas. Test fishing to commence mid-June to determine migration routes and abundance of Nimpkish sockeye.
July 4 - August 15	Trolling restricted to net fishing times and areas. Trolling permitted 7 days per week with non-retention of sockeye, pink and chum northerly and easterly of Aylmer Point to Castle Point to Greeting Point to Westacott Point. (Deserters Group).
July 4 - August 28	Adams River box boundary in effect.
July 25 - August 1	Net fishing times unchanged. Queen Charlotte Strait and Johnstone Strait open except closed inside Boulder Point on Malcolm Island to Staples Islet to Echo Island to Stuart Point on the mainland and a line from Lewis Point on Vancouver Island to Donegal Head to Freshwater Bay on Swanson Island to Red Point on Harbledown Island. Protection of Study Area pink stocks. Mainland inlets remain closed.
July 25 - UFN	Extended Koegh and Cluxewe River boundaries in effect from Round Island to False Head to Pultney Point.
August 1 - August 21	Net fishing times reduce to 1800 hours Sunday until 1800 hours Monday for seines and 1800 hours Sunday until 0600 hours Tuesday for gillnets. Queen Charlotte Strait open inside Boulder Point to Staples Islets to Echo Island to Doyle Island to Round Island. Johnstone Strait open south of Lewis Point to Donegal Head to the westernmost tip of Hanson Island and a line from Cracroft Point to Hanson Island opposite. Seines will be prohibited from fishing within one-half mile of the mainland shore to provide a corridor for Study Area pink stocks. Mainland inlets remain closed.
August 22 - September 18	Open for seines from 1800 hours Sunday until 1800 hours Tuesday and gillnets from 1800 hours Sunday until 0600 hours Wednesday. Queen Charlotte, Broughton and Johnstone Straits open. Goletas Channel closed (boundary same as July 25 - Aug. 1); Pultney Point to Lady Ellen Point. Mainland inlets remain closed. Robson Bight boundary moved out. Trolling open 7 days per week with non-retention of sockeye, pink and chum.
August 29	Adam River Box boundary reverts to normal stream boundary.
September 19	During the third week of September, the Johnstone Strait/Fraser River Chum Salmon Advisory Committee will meet to formulate a fishing pattern based on expectations and early abundance.

**AREA 13  
QUATHIASKI**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
			EXPECTED	OPTIMUM	
Sockeye	(1977)	172,600	5,100	7,000	Expected returns to local streams well below optimum. Conservation measures are required for local stocks.
	(1978)	897,200			
	10 year average	200,300	10 year average	5,700	
Coho	(1979)	74,000	25,400	75,000	Special conservation measures required for local stocks.
	10 year average	66,700	10 year average	25,600	

Pink	(1980)	73,100		232,000	200,000	400,000	Extremely poor returns anticipated due to December 1980 flooding. Special conservation measures required for local stocks.
	5 cycle average	108,800	5 cycle average	246,500			
Chum	(1977)	41,700		173,500	500,000	300,000	Average escapement in brood year will prove a modest harvest. It is expected the Johnstone Strait fishery will harvest the available surplus.
	(1978)	535,800		282,300			
	(1979)	21,300		99,300			
	10 year average	330,900	10 year average	152,800			
Chinook	(1977)	60,100		18,800	15,000	54,000	Below average escapement; no harvestable stocks anticipated; special conservation measures necessary.
	(1978)	60,000		13,700			
	10 year average	38,000	10 year average	14,000			

## PROPOSED FISHING PATTERN

EFFECTIVE DATE	ACTION
April 14 - September 30	Mainland inlets (Phillips Arm, Loughborough Inlet, Bute Inlet) closed to all gear. Non-retention of sockeye, pink and chum for trollers except during net fishing times and areas. Retention of sockeye, pink and chum will be permitted outside the "Grey Area" unless trollers target on these species.
April 14 - July 4	Net fishing times each week for seines from 1800 hours Sunday until 1800 hours Tuesday and for gillnets from 1800 hours Sunday until 0600 hours Wednesday.
July 4 - August 21	Trolling restricted to net fishing times in Johnstone Strait portion of Area 13. Trolling permitted 7 days per week inside Channel boundaries (non-retention of sockeye, pink and chum). Mainland inlets remain closed.
August 1 - UFN	Extended Amour de Cosmos River (Bear) boundary in effect. Northern boundary from Vansittart Point on West Thurlow Island to a boundary marker opposite on Vancouver Island and southern boundary from Needham Point on West Thurlow Island to a boundary marker north of Ripple Point light on Vancouver Island.
August 1 - August 21	Net fishing times each week reduced; for seines from 1800 hours Sunday until 1800 hours Monday and for gillnets from 1800 hours Sunday until 0600 hours Tuesday. Net fishing closed inside channel boundaries. Seines will be prohibited from fishing within one-half mile of the mainland shore in Johnstone Strait and from within one-half mile of Vancouver Island in Discovery Passage. Okisollo Channel closed. Kanish Bay closed. Deepwater Bay closed. This will provide a corridor for Study Area pink stocks.
August 21 - September 18	Net fishing time each week for seines from 1800 hours Sunday until 1800 hours Tuesday and for gillnets from 1800 hours Sunday until 0600 hours Wednesday. Net fishing permitted in the Johnstone Strait portion only. Net fishing closed inside Channel boundaries.
August 21 - September 30	Trollers permitted 7 days per week. Mainland inlets remain closed. Non-retention of sockeye, pink and chum.
September 19	During the third week of September, the Johnstone Strait/Fraser River Chum Salmon Advisory Committee will meet to formulate a fishing pattern based on expectations and early abundance.

**AREA 14  
COMOX/QUALICUM BEACH**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Coho	(1979)	128,000	10 year average	76,000	115,000	Below average return of wild coho. A harvestable surplus of adult coho to hatcheries.
	10 year average	92,000		50,000	105,000	
Pink	(1980)	50	5 year average	17,000	60,000	Below average return to all streams is expected due to interception fisheries.
	5 year average	3,000			255,000	
Chum	(1978)	100,000	10 year average	296,000	300,000	Possible terminal fishery on enhanced stocks returning to Qualicum and Puntledge facilities.
	(1979)	NIL		189,000	420,000	
	10 year average	70,500		114,000		
Chinook	(1977)		10 year average	3,500	7,000	Poor return of wild stocks and below average return of hatchery chinook is expected.
	(1978)	53,000		5,500	19,000	
	(1979)	61,600		9,000		
	10 year average	55,500		2,300		

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
April 15 - UFN	Closed to net fishing.

**AREA 15  
POWELL RIVER**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Coho	(1979)	18,000	10 year average	19,000	35,000	Below optimum return expected.
	10 year average	16,000		13,700	60,000	
Pink	Off-year		10 year average			
	10 year average	518		7,500		
Chum	(1978)		10 year average	34,000	45,000	Not expected to meet escapement target.
	(1979)			33,000	100,000	
	10 year average	26,500		45,000		
Chinook	(1979)	19,500	10 year average	5,000	1,000	No net fishery in Toba Inlet expected.
	10 year average	22,700		4,000	25,000	
<b>NOTE:</b>	1972 chums catch was 26,134. The 1971 chinook catch was 44,579.					

**PROPOSED FISHING PATTERN****EFFECTIVE DATE****ACTION**

April 15 - UFN

Closed to net fishing. Toba Inlet closed to trolling northeast of Brettell Point.

**AREA 16****PENDER HARBOUR**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS		
			EXPECTED	OPTIMUM			
Sockeye	(1978)	38,000		4,000	3,500	10,000	Below average return expected.
	10 year average	34,000	10 year average	6,100			
Coho	(1979)	19,100		17,000	16,000	30,000	Below brood year escapement expected due to flooding after spawning.
	10 year average	17,000	10 year average	14,000			
Pink	Off-year						
Chum	(1978)	100		32,700	30,000	125,000	Below average return expected due to flooding.
	(1979)	14		24,300			
	10 year average	20,000	10 year average	64,000			
Chinook	(1978)	16,000		NIL	NIL	NIL	No native chinook stocks.
	10 year average	18,000					

**PROPOSED FISHING PATTERN****EFFECTIVE DATE****ACTION**

July 26 - UFN

Open to net fishing in Sabine Channel 2 days per week.

**AREA 17  
NANAIMO/LADYSMITH**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS	
				EXPECTED	OPTIMUM		
Coho	(1979)	28,000		4,900	4,500	10,000	Below optimum return expected.
	10 year average	16,300					
Chum	(1978)	300		83,200	50,000	100,000	Adequate return for spawning requirements only.
	10 year average	15,300					
Chinook	(1978)	74,900		2,500	3,000	5,000	Some modest increases expected due to spot closures.
	10 year average	80,400					

**PROPOSED FISHING PATTERN**

**EFFECTIVE DATE                      ACTION**

April 15 - UFN                      Closed to net fishing until June 20 when IPSFC assumes control. No net fishing anticipated after IPSFC de-control.

**NOTE:**                                      Trolling and sport fishing short-term seasonal closures are recommended again for areas adjacent to the outlets of the Nanaimo and Chemainus Rivers for protection of returning chinook.

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**AREA 18  
COWICHAN**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS	
				EXPECTED	OPTIMUM		
Coho	(1979)	2,000		22,000	25,000	50,000	Well below optimum.
	10 year average	3,000					
Chum	(1978)	100		150,000	100,000	75,000	Below brood because of low water during spawning.
	(1979)	25					
	10 year average	8,000	67,000				
Chinook	(1978)	6,500		4,500	6,000	30,000	Well below optimum.
	10 year average	6,500					

**PROPOSED FISHING PATTERN**

**EFFECTIVE DATE                      ACTION**

June 20 - UFN                      IPSFC takes control—net fisheries will coincide with District 1 openings and will be for gillnets only.  
October                                      A terminal net fishery for chum is possible provided these stocks do not coincide with weak coho returns.

**AREA 20  
JUAN DE FUCA STRAIT**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
			EXPECTED	OPTIMUM	
Sockeye	(1978) 10 year average	476,000 532,000	Fishing pattern in this area is not related to local escapements.		IPSFC announced proposed fishing pattern December 1981. Fraser sockeye have recently had high Johnstone Strait diversion.
Coho	(1979) 10 year average	257,000 352,000			Low brood year abundance indicates poor prospects for September fishery.
Pink	(1980)				Off cycle, no return.
Chum	(1978) 10 year average	55,000 73,000	Fishing pattern in this area is not related to local escapements.		Average return expected.
Chinook	(1978) (1977) 10 year average	74,000* 27,000* 49,000			Average return expected.

\*includes Jacks.

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
April 15 - June 20	Open to trolling westerly of Sheringham Point.
June 20 - August 29	IPSFC assumes regulatory control. Trolling restricted to net fishing times.
August 29 - October 29	No net fishing anticipated after IPSFC de-control.

AREA 22  
NITINAT LAKE

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT		1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Chum	(1978)	0		9,600	25,000	Below average return expected. No fishery anticipated.
	(1979)	0		14,500	112,000	
	10 year average	171,500	10 year average	79,000		

PROPOSED FISHING PATTERN

EFFECTIVE DATE	ACTION
Full season	Closed to all gear.

AREA 23  
BARKLEY SOUND

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT		1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	1,369,000		293,000	300,000	A good return to Great Central and Sproat Lakes with a poor return to Henderson Lake due to low brood year escapements. Total catch anticipated 900,000.
	(1978)	197,700		145,000	300,000	
	10 year average	532,100	10 year average	231,600		
Coho	(1979)	9,200		42,900	40,000	A poor return of wild stocks expected. No fishery anticipated.
	10 year average	8,500	10 year average	72,000	75,000	
	(1970 - 1979) 1980 and 1981 data not available					
Chum	(1978)	47,400		155,300	100,000	Rate of return has been poor over last number of cycles. Poor return expected.
	(1979)	100		48,460	150,000	
	10 year average	29,700	10 year average	135,000		
	1981 data not available		1980 and 1981 data not available			
Chinook	(1977)	25,800*		13,520**	12,000**	Poor return of wild stocks. A limited fishery on Robertson Creek Hatchery stocks is anticipated.
	(1978)	15,800		9,600**	18,000**	
	10 year average	19,300	10 year average	14,000**		
	(1972 - 1981)		(1970 - 1979) 1980 and 1981 data not available			

\*Primarily net fishery catch of non-local stocks.

\*\*Wild river fish only.

PROPOSED FISHING PATTERN

EFFECTIVE DATE	ACTION
February 1 - April 14	Closed to all gear.
February 1 - June 7	Closed to net fishing.
April 15 - September 30	Open to trolling 7 days per week.
June 7 - UFN	Open to net fishing 2 days per week. Gillnets open 1200 hours Monday to 1200 hours Wednesday. Seines open 1200 hours Monday to 1200 hours Wednesday. Seines only in Alberni Inlet from Pocohontas Point to Dunsmuir Point. Gillnets only from Pocohontas Point seaward to Bamfield to Howard Point line. Usual boundaries in effect.
Mid - July	Seaward boundary for seines moved in to Bilton Point. Gillnets in Trevor Channel only between Bamfield—Sanford Island boundary and Chimmin Point—Congreve Island boundary to conserve Henderson Lake sockeye.
August	Following closure of sockeye fishery, assessment will commence and when stock strength of Robertson Creek chinook has been identified and desired escapement of Somass River sockeye achieved, Alberni Inlet between Sproat Narrows and Polly Point will open to gillnets only (maximum length of 180 m, no mesh size restriction). This opening will be of short duration until excess Robertson Creek chinook are harvested or wild stocks appear.
September - October	Following the Alberni Inlet fishery, the area will close until further notice. Assessment of chum stocks will be carried out as the migration progresses.

**AREA 24  
CLAYOQUOT SOUND**

SPECIES	CYCLE YEAR	CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	15,000*	55,000	85,000	120,000	The effects of the Kennedy Lake fertilization program will be realized this year for both 4 and 5 year olds. No net fishery is anticipated as all stocks required for spawning.
	(1978)	55,000*	53,000			
	10 year average		10 year average	29,000		
Coho	(1979)	497,000**	9,000	6,000	25,000	Stocks are heavily exploited in the troll fishery. No net fishery anticipated as stocks require protection.
	10 year average*		10 year average	9,000		
Chum	(1978)	128,000***	120,000	70,000	100,000	Average return expected. If sufficient stocks return, a net fishery may occur.
	(1979)	5,000	29,000			
	10 year average*		10 year average	60,000		
Chinook	(1977)	80,000**	300	300	2,000	Local stocks are over exploited by the offshore troll fishery. Maximum protection must be given to protect dwindling stocks.
	(1978)	10,000**	200			
	10 year average		10 year average	450		

\*No major net fishery on sockeye. Majority troll caught.

\*\*Trolling

\*\*\*Net fishery

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
Full Season	Standard Closed areas: Hesquiat Harbour, Hot Springs Cove, upper Sydney Inlet (including Stewardson and Holmes Inlet), Hootla Kootla Creek triangle boundary, Dixon Bay, upper Shelter Inlet, Sulphur Passage, Atleo River Box boundary, Matilda Inlet, upper Herbert Inlet, Whitepine Cove, Bawden Bay, Cypress Bay, Bedwell Sound, Warn Bay, Mosquito Harbour, Lemmens Inlet and upper Tofino Inlet.
April 15 - September 30	Open to trolling 7 days per week with above standard stream and sanctuary boundaries in effect. No net fishery expected.
August 1 - UFN	Tofino Inlet and Fortune Channel to Matset Narrows boundary closed to trolling for protection of Kennedy and Tranquil River chinook.

**AREA 25  
NOOTKA SOUND**

SPECIES	CYCLE YEAR CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS	
			EXPECTED	OPTIMUM		
Pink	(1980)	5,800	28,500	35,000	80,000	No net fishery anticipated.
	10 year average*	16,500				
Chum	(1978)	1,000	12,000	70,000	120,000	No net fishery anticipated on unenhanced stocks.
	(1979)	2,900	40,000			
	10 year average*	68,400	10 year average	99,000		
Chum*	(1978)	850,000 Fry released	17,000	42,000	130,000	Terminal fishery contemplated if Conuma stocks return with any strength.
	(1979)	2,600,000 Fry released				

\*Conuma Hatchery stocks

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
July 2 - August 7	Closed to trolling inside boundary markers at Muchalat Inlet, Hanna Channel, Tlupana Inlet, Tahsis Inlet, Port Eliza, Espinosa Inlet, Zeballos Inlet, Hecate Channel and Inner Basin.
August 7 - August 21	The inside portion, Nootka Sound, closed to trolling (dates approximate and will depend on chinook migration pattern).
<b>NOTE:</b>	No net fishery expected.

**AREA 26  
KYUQUOT SOUND**

SPECIES	CYCLE YEAR	CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Pink	(1980)	6,200	11,800	18,000	75,000	No net fishery anticipated.
	10 year average	23,300				
Chum	(1978)	4,200	84,500	Unknown	100,000	No net fishery anticipated.
	(1979)	1,400	14,200			
	10 year average	16,300	10 year average			

**PROPOSED FISHING PATTERN**

**EFFECTIVE DATE                      ACTION**

July - UFN                                      Closed to trolling inside markers located at Tashish, Kashuti, Amai, Cachalot, Malksope, Ououkinish and Nasparti Inlets as well as Clanninick Cove and Battle Bay.

**NOTE:**    No net fishing anticipated.

**AREA 27  
QUATSINO SOUND**

SPECIES	CYCLE YEAR	CATCH	CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1977)	44,000	1,000	2,000	20,000	No net fishery planned.
	(1978)	1,800	1,200			
	10 year average	55,000	10 year average			
Coho	(1979)	1,600	30,000	20,000	50,000	Troll fishery only.
	10 year average	22,000	10 year average			
Pink	(1980)	200	65,000	10,000	50,000	Severe flooding in 1980. No net fishery planned.
Chum	(1978)	500	45,000	30,000	100,000	No net fishery planned.
	(1979)	400	20,000			
	10 year average	7,500				
Chinook	(1977)	1,300	950	1,000	10,000	No net fishery planned. Troll and sport closures planned.
	(1978)	900	1,000			
	(1979)	200	500			
	10 year average	1,700	10 year average			

**PROPOSED FISHING PATTERN**

**EFFECTIVE DATE**

**ACTION**

February 1 - April 15  
 February 1 - UFN  
 July 1 - UFN

Closed to all gear.  
 Closed to net fishing.  
 All waters inside Cliffe Point closed to all gear for conservation of Marble River chinook. Sport closure in effect with the exception of coho and pink.

**AREA 28  
 HOWE SOUND**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS	
				EXPECTED	OPTIMUM		
Coho	(1979)	Closed	10 year average	13,000*	15,000*	100,000	Relatively low return of wild stocks. Capilano Hatchery return of 25,000 expected.
	10 year average	Closed		33,000			
Chum	(1977)	Closed	10 year average	138,000	125,000	300,000	Well below optimum returns expected.
	(1978)	Closed		123,000			
	(1979)	Closed		38,000			
	10 year average	Closed		148,000			
Pink	Off cycle year						
Chinook	(1977)	Closed	10 year average	4,000	3,000*	35,000	Conservation measures required to protect low returns to Squamish River. Average return of 4,000 expected to Capilano Hatchery.
	(1978)	Closed		2,000			
	(1979)	Closed		2,000			
	10 year average	Closed		6,000			

\*wild stocks

**PROPOSED FISHING PATTERN**

**EFFECTIVE DATE**

**ACTION**

Full Season

Closed to all fishing.

**AREA 29  
DISTRICT 1 INCLUDING THE FRASER RIVER**

SPECIES	CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		EXPECTATIONS
				EXPECTED	OPTIMUM	
Sockeye	(1978)	581,000		2,514,000		T.B.A. Refer to IPSFC forecast of December 11, 1981.
	5 cycle average	607,000	5 cycle average	1,951,000		
Coho	(1979)	9,000		56,000	50,000	175,000 Return to the river will be well below optimum. Conservation measures will be required.
	10 year average	43,000	10 year average	62,000		
Pink	Off-cycle year					
Chum	(1977)	14,000		539,000	700,000	700,000 The total return is expected to be less than the average of 900,000 with possibility of a minimal harvest occurring.
	(1978)	125,000		487,000		
	(1979)	8,000		328,000		
	10 year average	102,000	10 year average	449,000		
Chinook	(1977)	98,000		80,000	55,000	155,000 Poor return to river expected. Conservation measures will be required.
	(1978)	60,000		73,000		
	(1979)	55,000		63,000		
	10 year average	88,000	10 year average	66,000		

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
February 1 - IPSFC control During IPSFC control	Closed to all fishing. Maximum 140 mm mesh restriction in effect until October 15 to conserve chinook. No large mesh openings during IPSFC closures.
After IPSFC control	The fishing patterns will be dependent upon the strength of the chum return.
<b>NOTE:</b>	A maximum of 180 mm mesh restriction in effect after October 15.

**STIKINE RIVER**

SPECIES		CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT			
		AREA 106	AREA 108		CANADA	EXPECTED	OPTIMUM	EXPECTATIONS
Sockeye	(1976)	15,000			40,200	85,000	Unknown	Good Return
	(1977)	67,000	48,000		71,600			
	(1978)	42,000			38,000			
	10 year average	61,000	16,000	17,000	33,000			
Coho	(1978)	55,000	33,000		54,000	33,000	Unknown	Average return. Conservation measures may be imposed if weaker than expected.
	(1979)	31,000		10,700	32,000			
	10 year average	39,000	13,000	7,000*	34,000			
Chinook	(1976)	400	1,000		5,600	7,000	Unknown	Well below optimum. Conservation measures will be required.
	(1977)	700	1,000		6,400			
	(1978)	3,000	500		5,000			
	10 year average	1,500	4,000	1,000*	6,000			

\*3 year average

**PROPOSED FISHING PATTERN**

EFFECTIVE DATE	ACTION
June 21	Open to net fishing 2 days per week.
June 21 - July 26	Maximum 146 mm mesh restriction in effect.
October 1	Closed to net fishing for the season.
<b>NOTE:</b>	The upper boundary for this fishery will be located approximately 1.6 km downstream from the confluence of Andysmith Creek and the Stikine River.

**TAKU RIVER**

SPECIES		CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT		
		U.S.	CANADA		EXPECTED	OPTIMUM	EXPECTATIONS
Sockeye	(1976)	61,000		52,000	50,000	Unknown	Average return.
	(1977)	70,000		59,000			
	(1978)	54,000		46,000			
	10 year average	74,000	16,000*	60,000			
Coho	(1978)	34,000		14,000	14,000	Unknown	Poor return.
	(1979)	16,000	6,000	8,000			
	10 year average	36,000	5,000*	30,000			

Pink	(1980)	296,000	27,000	200,000	215,000	Unknown	Excellent return.
	10 year average	91,000	17,000*	100,000			
Chum	(1977)	61,000		29,000	40,000	Unknown	Poor return.
	(1978)	35,000		34,000			
	(1979)	61,000	15,000	61,000			
	10 year average	88,000	13,000*	35,000			
Chinook	(1976)	2,000		12,000	15,000	Unknown	Conservation measures will be required.
	(1977)	1,000		15,000			
	(1978)	2,000		6,000			
	10 year average		200*	8,000			

\*3 year average

#### PROPOSED FISHING PATTERN

##### EFFECTIVE DATE                      ACTION

June 21                                      Open to net fishing 2 days per week.  
 June 21 - July 26                        Maximum 146 mm mesh restriction in effect.  
 October 1                                    Closed to net fishing for the season.

**NOTE:**                                      The harvest rate in 1982 will be based on the interim Canada/U.S. salmon agreement in which Canada's entitlement will be 15 percent of the 1979 percentages of each species taken by Canada.

#### YUKON RIVER

SPECIES		CYCLE YEAR CATCH		CYCLE YEAR ESCAPEMENT	1982 ESCAPEMENT*		EXPECTATIONS
		U.S.	CANADA		EXPECTED	OPTIMUM	
Chum	(1977)	798,000	4,000	75,000	35,000	Unknown	Below average return.
	(1978)	1,289,000	3,000	20,000			
	(1979)	1,166,000	9,000	50,000			
	10 year average	834,000	4,000				
Chinook	(1976)	89,000	3,000	10,000	55,000	Unknown	Average return.
	(1977)	96,000	5,000	45,000			
	(1978)	98,000	3,000	60,000			
	10 year average	101,000	4,000				

#### PROPOSED FISHING PATTERN

##### EFFECTIVE DATE                      ACTION

June 1                                        Open to fishing 6 days per week from 1200 hours Tuesday to 1200 hours Monday. Fishing time may be reduced if chum return is weak.

\*Escapement estimated from very limited information.

# Pacific Groundfish Management Plan

## Management Considerations

The Pacific Groundfish Management Plan is required to control resource exploitation by various sectors of the groundfish fleet.

Changes in the 1982 Groundfish Management Plan include adjustments to the Pacific Ocean perch quotas that arise from a new understanding of the population of these long-lived fish. Changes have also been made in some flatfish quotas and available fishing areas.

To preserve the "nursery area" of rock sole in Hecate Strait, the western portion of Hecate Strait, closed to trawling in 1981, will again be closed for the 1982 season and there will be no quota imposed on rock sole in Hecate Strait. A limit of 11,250 kg per boat trip will again be in effect.

As the permit system for fishing north of 54°N latitude did not meet with success in 1981, the system has been discontinued in 1982. Fishermen are reminded that accurate catch information from this area is essential.

## Basic Principles

1. Conservation of the groundfish resource.
2. Shared access to the groundfish stocks by the fleet licensed for this resource, regulated by seasons, quotas and gear types.
3. Utilization of the groundfish resource over the full calendar year where possible.
4. No re-allocation of uncaught quotas, in line with the principles of conservation of groundfish stocks.

## Regulatory Measures

1. Violations of any part of this management plan upon conviction may result in suspensions.
2. Unless otherwise stated, all fisheries will open January 1, 1982.

## PACIFIC GROUND FISH MANAGEMENT PLAN

### AREA: Coastwide

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Sablefish	2,500	2,030	3,500	3,793	3,500	3,720	3,500

### Regulatory Measures

**Sablefish**      The sablefish fishery will open to all commercial gear on February 1, 1982. Vessels fishing by means of longline gear or trap gear will be required to display valid "K" tabs. Vessels engaged in the halibut fishery will be permitted to retain incidental catches of sablefish during open periods of the halibut fishery.

An escape panel is required in all sablefish traps. This escape opening, located in a side wall of the trap, must be laced or secured together with a single piece of untreated cotton twine or other natural fibre no larger than 2 mm in diameter. Deterioration or parting of the twine must produce an opening in the webbing or meshes equal to, or greater than 20 cm in diameter.

Trawlers with valid "T" tabs will be permitted to retain sablefish during the closed period only when fishing effort is directed towards other species of groundfish. They will not be permitted to direct fishing effort towards sablefish during the closed period of January 1 to January 31, 1982.

**Petrale Sole**      The incidental limit of 1.4 mt per boat trip will be raised to 15 mt per boat trip, to a maximum limit of two trips per month, effective January 1, 1982 to March 31, 1982. After March 31, 1982 free fishing will be permitted.

## AREA 4B (Strait of Georgia)

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Dogfish	3,000	4,334	3,000	1,604	5,000	375	3,000
Pacific Hake	—	516	—	508	—	2,668	10,000
Pollock	4,000	1,341	3,400	1,056	3,400	607	3,400

### Regulatory Measures

Dogfish	Area 4B opened to dogfish fishing on October 1, 1981. When the quota of 3,000 metric tons has been attained, statistical areas 14, 16-20, 28 and 29, will be closed. An additional 1,000 metric tons will be available in statistical areas 12, 13 and 15 combined. If this additional quota is reached, these areas will be closed and another 1,000 metric tons will be allotted to statistical areas 19 and 20. If the quota is attained in Areas 19 and 20, Area 4B will be closed until October 1, 1982.
Pollock	Catches will be restricted in the following areas to:  300 metric tons for statistical areas 19-20 and the western Gulf Islands section of Areas 17 and 18.  900 metric tons for Area 18 east of Mayne Island and Washington Department of Fisheries Area 20-A, combined. This quota applies to both Canadian and U.S. vessels.
Lingcod	Closed November 15, 1981 for all commercial and sport gear including scuba. The closed portion of Area 12, Areas 13-20, 28 and 29 will re-open to all gear on April 15, 1982.

**AREA 3C (Lower West Coast of Vancouver Island)**

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Pacific Ocean Perch <sup>1</sup>	50	81	600	326	500	554	500
Pacific Hake <sup>2</sup>	35,000	12,226	42,500	19,156	35,000	25,010	35,000

<sup>1</sup> Catches and quotas include Area 3D (upper west coast Vancouver Island).

<sup>2</sup> Includes both foreign and domestic catches and allocations.

**Regulatory Measures**

Pacific Cod	Closed to all trawling from January 1 to March 31, 1982 inside 180 m for Area 3C only. This is the fourth year for a closure on Pacific cod in this area.
Lingcod	Closed November 15, 1981 to all commercial gear — re-opens to hook and line gear on March 1, 1982 and to trawl gear on April 1, 1982.

**AREA 3D (Upper West Coast of Vancouver Island)**

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Canary Rockfish	500	381	500	245	350	90	350

*Note: Pacific Ocean perch is included with Area 3C.*

**Regulatory Measures**

Lingcod                      Closed November 15, 1981 to all commercial gear — re-opens to hook and line gear on March 1, 1982 and to trawl gear on April 1, 1982.

**AREA 5A/B (Cape Scott Spit, Goose Island Grounds, Queen Charlotte Sound)**

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Pacific Ocean Perch	2,000	1,549	2,200	2,104	1,500	1,725	1,000
Canary Rockfish	—	364	—	365	—	133	500
Silvergrey Rockfish	—	988	—	734	—	417	600
Yellowmouth Rockfish	—	31	—	37	—	5	250
Yellowtail Rockfish	3,000	1,525	3,000	509	2,000	256	1,500

**Regulatory Measures**

Rockfish                      No directed fishery after quota is reached. Incidental catch limit of 2 metric tons per boat trip will be implemented.

## AREA 5C/5D (Hecate Strait and Dixon Entrance)

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Pacific Ocean Perch (5C)	—	268	—	2,079	1,800	2,319	2,000
Pacific Ocean Perch (5D)	—	123	—	49	—	42	100
Dover Sole <sup>1</sup>	—	664	—	673	750	853	800

<sup>1</sup> Quota and Catch includes Areas 5C, 5D and 5E.

### Regulatory Measures

Pacific Ocean Perch and Dover Sole      No directed fishery after quota is reached. Incidental catch limit of 2 metric tons per boat trip will be implemented.

Rock Sole      The western portion of Hecate Strait, closed to trawling in 1981, will be closed again in 1982. There will be no quota imposed on rock sole, but a limit of 11 metric tons per boat trip will apply. If landings south of 53°30'N exceed 500 metric tons, or landings north of 53°30'N exceed 250 metric tons, consideration will be given to lowering the trip limit after discussions with industry.

**AREA 5E (North of 54°00'N Latitude, West Coast Queen Charlotte Islands)**

SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Pacific Ocean Perch	—	227	200	85	200	109	200
Yellowmouth Rockfish	—	17	—	0	—	— <sup>1</sup>	100
Rougheye Rockfish	—	14	—	3	—	69	250

<sup>1</sup> No figure available at this time.

*Note: Dover sole is included with Area 5C/D.*

**Regulatory Measures**

Rockfish            When any one quota has been met, the area north of 54°N will close.

**AREA 5E (South of 54°00'N Latitude, West Coast Queen Charlotte Islands)**

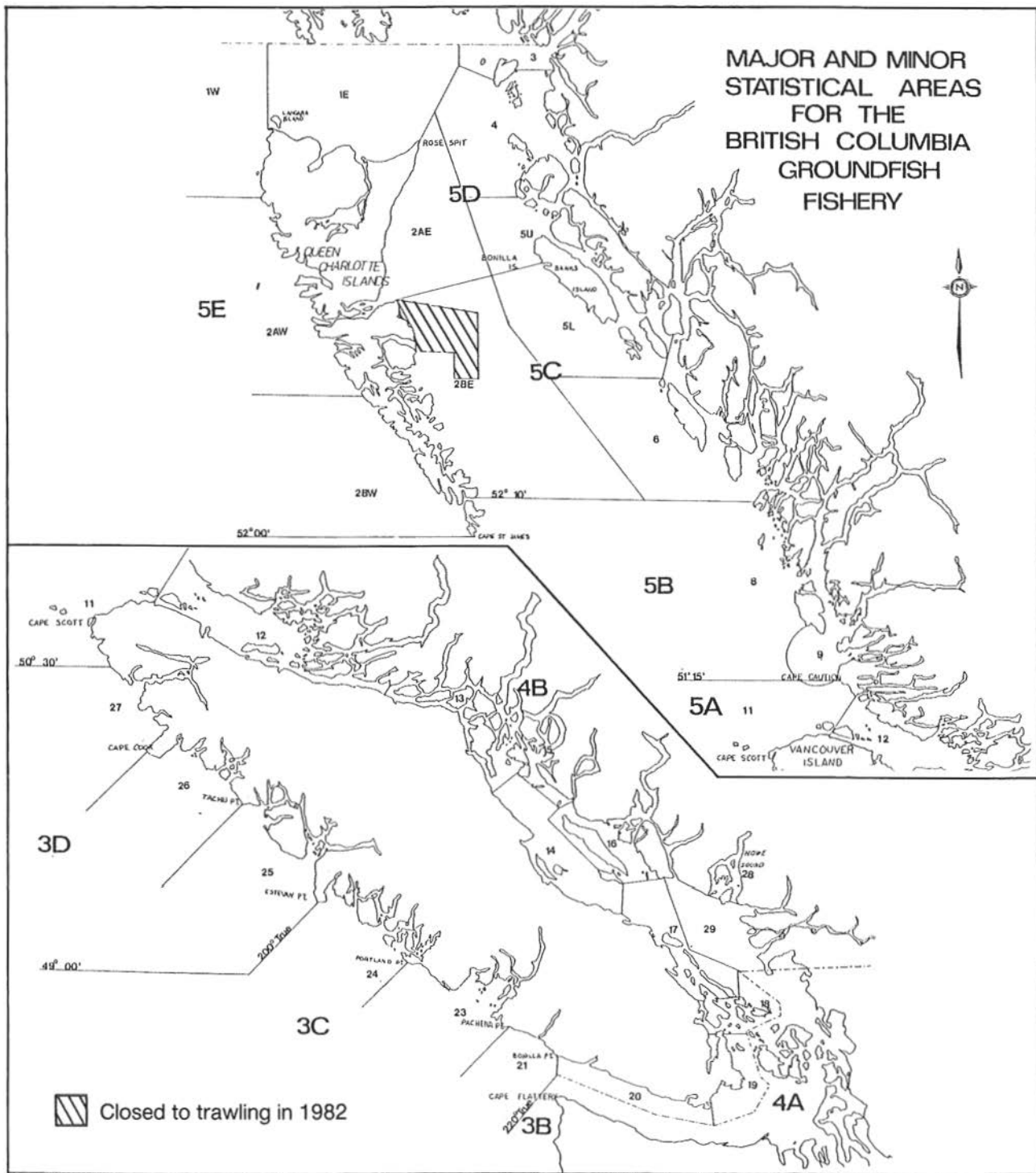
SPECIES	1979		1980		1981		1982
	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt	CATCH mt	QUOTA mt
Pacific Ocean Perch	600	1,067	600	877	600	476	600
Yellowmouth Rockfish	750	405	800	500	800	779	600
Rougheye Rockfish	—	192	—	51	—	83	250

*Note: Dover sole is included with Area 5C/D.*

**Regulatory Measures**

Rockfish            The Buck Point, Rennell Sound and Anthony Island areas will be closed to trawling from January 1, 1982 to March 31, 1982.

MAJOR AND MINOR  
STATISTICAL AREAS  
FOR THE  
BRITISH COLUMBIA  
GROUND FISH  
FISHERY



# Offshore Management – Hake Cooperative Arrangements and Foreign Fishing

Hake cooperative fishing arrangements with foreign nations began in 1978 following the establishment of the 200 mile fishing zone in 1977. Under these arrangements, Canadian midwater trawl vessels deliver their catch to foreign processing ships.

The Offshore Division is responsible for the management of quotas and enforcement of fisheries regulations, as well as planning the future development of the fishery.

The Hake Consortium of British Columbia, which represents Canadian fishermen, negotiates the contracts with foreign interests and organizes the operation.

Contract proposals made by the Hake Consortium must be approved by the Department of Fisheries and Oceans. Following approval, foreign fishing licences are issued by the Offshore Division, valid from June 1 to October 31, or until the assigned quota is taken, whichever is earlier. The fishery is limited to the lower west coast of Vancouver Island, and subject to incidental catch limits.

If the hake quota has not been totally allocated to the domestic or cooperative fisheries, hake quotas may also be allocated to foreign nations who have signed bilateral agreements with Canada in the Pacific Region.

## Contact

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## Roe Herring Management Plan<sup>1</sup>

The experimental 1981 area licensing program in the roe herring fishery will be carried over for the 1982 season. As in 1981, three separate licensing areas have been defined — north of Cape Caution; Strait of Georgia, and west coast of Vancouver Island.

Several important refinements in the area licensing program are detailed below.

The total anticipated catch for the 1982 roe herring fishery is 31,752 mt and the anticipated allocations of this catch to each area are shown in the following section.

### Proposed Fishing Pattern

Effective 1400 hours Tuesday, February 10, 1982, all waters of the British Columbia coast will close to all roe herring fishing until further notice.

Stocks will be monitored in all major areas and openings will be declared when warranted.

South of Cape Caution, no openings are anticipated in the Johnstone Strait area. It is anticipated that fishing areas in the Strait of Georgia and west coast of Vancouver Island will open during the first part of March as stock conditions warrant.

Given the predicted stock strength and expected catch levels, in 1982 a gillnet only fishery in the Central Coast and a seine only fishery in Kitkatla Inlet is anticipated. However, if stocks should return at a higher

<sup>1</sup> This is a general outline of the 1982 Roe Herring Management Plan only and does not supersede the appropriate Fishery Regulations.

level than expected, then consideration would be given to fishing with both gear types in these areas.

Anticipated catch levels for the 1982 season by licence area are as follows:

LICENCE AREA	EXPECTED CATCH (mt)
North of Cape Caution	10,886
Strait of Georgia	11,794
West Coast of Vancouver Island	9,072
<hr/>	
Total Coast	31,752

#### Administration of the 1982 Roe Herring Fishery

1. The 55 percent to 45 percent seine/gillnet catch division initiated in 1979 will apply separately north and south of Cape Caution in the 1982 fishery.
2. Area licences were distributed by a modified first choice system. Fishermen received an area choice form in November and submitted this form beginning November 20 indicating their preferred fishing area. Every licence holder chose only one area and was awarded the area of first choice. If the number of licence holders selecting any area was too large relative to anticipated catches in that area, the department reserved the right to allow fishermen to opt out of the area. The area licence distribution procedure was completed by January 15, 1982.
3. After January 15, 1982, roe herring fishermen cannot transfer their licence from vessel to vessel.
4. The department will retain the one net per punt restriction for gillnets for the 1982 season. Fishermen owning or leasing more than one roe herring licence can, however, put two area licences on one vessel if they are for different areas.
5. Fishery officers will ensure that sensitive herring spawning areas are protected from gear damage by establishing shallow water net boundaries, shoreward of which no fishing shall take place.
6. The department will continue its policy of attempting to achieve the best percentage of roe recovery compatible with sound conservation principles.
7. The precise opening time for seines will not be announced in advance. However, a time period in which the opening will occur will be announced and the precise opening time will occur within the time period previously set out and will be broadcast over the radiotelephone on 2318 (HF) and channel 78A (VHF) with no further advance warning.
8. Gillnet (setnet) fishery openings will be announced as far in advance as possible.
9. Notice of closures will be as short as required for conservation purposes. For gillnet (setnet) closures, enough notice will be given to provide opportunity for each fisherman to remove his net from the water.
10. For seines, no further sets may be made beyond a stated time announced by the fishery officer.
11. An attempt will be made to broadcast to the fleet anticipated times to fulfillment of expected catch limits for an area, to prevent vessels travelling unnecessarily to areas that would probably close before they arrived.
12. Vessels not licensed for the given area must stand off the fishing grounds in areas designated by the local fishery officer.
13. Vessels transferring catch from hold to hold must stand off the spawning grounds and transfer the catch only in areas designated as gurry grounds by the fishery officer according to Section 43 of the Fisheries Act.
14. Gillnet vessels transferring catch from skiff to packer must do so in areas designated as gurry grounds by the local fishery officer according to Section 43 of the Fisheries Act.
15. The seine fleet is requested to avoid excessive disturbance of herring which results from vessels running back and forth using sonars and sounders over schools to determine abundance and distribution prior to an opening.

16. Gillnet (setnet) fishermen may use the net drum on their salmon fishing vessel to pull their roe herring gillnets (setnets) across their punts, provided:
- the punt is properly licensed for roe herring for the appropriate area;
  - all persons aboard the vessels engaged in the operation hold valid personal commercial fishing licences;
  - the CFV plate of the salmon fishing vessel is validated for the current season.

### **Roe Herring Gillnet (Setnet) Fishery Regulations Synopsis**

1. In fishing for roe herring, no person shall use a gillnet, drift net or setnet of length that is greater than 135 m and such net shall be fished in one section only.
2. No person shall use a gillnet, drift net or setnet in fishing for roe herring, containing more than 100 meshes in depth. Mesh size must be between 57 mm and 64 mm inclusive.
3. In fishing for roe herring, a person may use a shaker panel of a depth not exceeding 2 m and with a mesh size not less than 150 mm.
4. No person fishing for roe herring shall use a gillnet, drift net or setnet unless one float in every ten along the cork line of such a net is legibly marked in numerals not less than 25 mm in height, with the commercial fishing registration plate number of the vessel from which the net is being fished.

5. Pacific Herring Fishery Regulations require that herring gillnets (setnets) must be legibly marked with an iridescent or plain orange buoy not less than 125 cm in circumference at each end and the CFV plate number of the herring vessel marked legibly on the buoy. Buoys between the two terminals must be of a colour other than orange.
6. No person shall, in fishing for roe herring with gillnets (setnets), place or leave any anchors, buoys or lines in the water during any closed time.
7. In fishing for roe herring from a punt or while having roe herring aboard a punt, no person shall use or carry a greater length or depth of net in a hung condition than permitted by the Pacific Herring Fishery Regulations. It should be noted that extra net may be carried on accommodation vessels or motherships.

### **Roe Herring Seine Fishery Regulations**

A herring purse seine shall not be greater than 500 m in length and the mesh not less than 25 mm extension measure.

### **Further Information**

For further information on the management plan for the roe herring fishery contact:

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A/Regional Herring Coordinator  
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## Herring Food and Bait Management Plan

The herring food and bait fishery is managed from a conservation perspective (in the form of area quotas) and from a quality perspective to ensure the highest possible return to fishermen and industry from this limited resource.

The 1982 fall plan will be finalized in the summer of 1982 in consultation with fishermen and representatives of industry, and will be published at that time.

## Herring Spawn-on-Kelp Management Plan

Participation in the 1982 herring spawn-on-kelp fishery is limited to those persons licensed in 1981.

Small amounts of herring deemed to be surplus to spawning requirements are caught and impounded locally in inlets and bays. Herring not utilized as bait following the spawning are released.

### **Management Plan**

After discussions with licence holders and review of the 1981 plan, the 1982 management plan will be announced.

Herring spawn-on-kelp must be inspected and a certificate issued prior to export.

Areas of low adult returns, or where conservation problems are anticipated, will be closed. For further information, contact the nearest Fisheries and Oceans office.

# Other Commercial Fisheries – Management Plans

## General Conditions

1. A Personal Commercial Fishing Licence is required for all species in addition to a specific licence as shown in the last column of the following tables. The *Licensing Summary* in this guide should be noted.
2. For bivalve molluscs and goose barnacles\*, all areas are subject to closure due to paralytic shellfish poisoning (PSP) or sewage contamination. PSP can cause serious illness or death. Contact the nearest fisheries office for local closures.  
  
\*The latest information available suggests that goose barnacles may be susceptible to PSP.
3. Closures may be instituted for all species for conservation purposes.
4. Vancouver Harbour closures apply.
5. Sales slips are required for every landing.
6. Unless otherwise noted, quotas open on January 1, 1982. In each case the fishery closes when the quota is taken.

## Limited Entry and Non-limited Entry Fisheries

Abalone, geoduck, horse clams (subtidal) and shrimps (by trawl) are limited entry fisheries. The other fisheries listed are non-limited entry.

## Closed Season

This is the period when fishing activity is prohibited. Dates are inclusive. Only major closed seasons are noted, the details of local closures are available at Fisheries and Oceans offices.

## Additional Licences and Regulatory Controls

The comments in this column outline the main management controls for each fishery *in addition* to the general conditions listed above. Further details of the management plans and related regulations are available at Fisheries and Oceans offices throughout the region.

## Commercial Fishing with SCUBA

Note that SCUBA gear may be used in commercial fishing only for the following species: abalone, geoduck, sea urchins, octopus, horse clams and sea cucumber.

## Weights and Measures

Weights and measures are in metric. A conversion chart with approximate equivalents of metric and imperial is at the end of the book for your convenience.

# Other Commercial Fisheries

(LIMITED ENTRY)

Fishery	Area Quotas	Gear Limitations
<hr/> <b>MOLLUSCS</b>		
ABALONE	90.72 mt coastwide, to be divided equally among licencees.	Diving only; no spears or suction devices.
<hr/>		
GEODUCK	1 - 10 Total of 907.19 mt. Individual area quotas to be announced.  11 - 27 total of 2,023 mt. Individual area quotas to be announced.	Diving only. Licence conditions specify standards of gear construction.
<hr/>		
HORSE CLAMS (subtidal)	Under consideration.	Diving only.
<hr/> <b>CRUSTACEANS</b>		
SHRIMPS (trawl)	– Tofino Grounds (Area 24) 87 mt. – Nootka Grounds (Area 25) 171 mt. – Quotas in effect until April 30, 1982; new quotas to be announced in 1982.	Trawl.

**Closed Seasons****Size Limits****Additional Licences and Regulatory Controls  
[N.B. Consult introduction to these tables for  
general conditions.]**

Coastwide February 1 -  
December 31. Various areas  
overfished in recent years  
and areas supporting  
traditional Indian food  
fisheries and recreational  
fisheries are closed year  
round to commercial fishing.

100 mm at the point of  
greatest length of the shell;  
measure under water and  
return sub-legal animals to  
the rock from which taken.

- Limited entry E licence.
- Divers daily logs are required for inspection on demand and submission on completion of trip.
- Operator must advise the local district fishery office prior to initial fishing operations in any area.
- Each landing must be inspected prior to unloading and licences validated prior to each trip.

Some small areas to be  
closed year round for  
research study areas.

- Limited entry G licence for subtidal geoduck harvesting by diving.
- Divers daily logs are required for inspection on demand and submission on the completion of the trip.
- PSP closures may be expected.
- Renew licences at Vancouver headquarters.

- Fished under limited entry G licence. Conditions noted above for geoduck apply.

March 1 - March 31.

- Requires S licence for trawling.
- Catch records are required.
- Some areas that support a traditional prawn fishery or that are crab nursery areas are closed.

**(NON-LIMITED ENTRY)**

**Fishery**

**Area Quotas**

**Gear Limitations**

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**FINFISH**

EULACHONS

Gillnet and setnet only.

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SMELTS AND  
SARDINES

Gillnet and setnet only.

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**MOLLUSCS**

BUTTER CLAMS  
LITTLE NECK CLAMS  
MANILLA CLAMS  
RAZOR CLAMS  
SOFT SHELL CLAMS  
HORSE CLAMS  
(intertidal)

Hand digging. Mechanical  
digger, apparatus or  
dredge.

**Closed Seasons****Size Limits****Additional Licences and Regulatory Controls**  
**[N.B. Consult introduction to these tables for**  
**general conditions.]**

In District 1, Thrasher Rock to Reception Point and south to international border in Georgia Strait. A weekly closure from 0800 hours Friday to 0800 hours the Sunday immediately following.

- Requires category Z licence when fishing without a vessel.
- Scheduled under C licence when fishing with a vessel.
- Closed to commercial fishing in the following areas:
  - 1) all areas north of Cape Caution;
  - 2) Fraser River above Mission Bridge;
  - 3) Pitt River;
  - 4) inlets in Area 12.
- Local restrictions apply concerning closed areas and conditions under which nets may be operated.

In District 1, July 5 - August 5.

- Requires category Z licence when fishing without a vessel.
- Scheduled under C licence when fishing with a vessel.
- Smelts – purse seine, maximum 90 m length, maximum 19 mm mesh.
- Sardines – purse seine, maximum 365 m length, maximum 16 mm mesh.
- Drift or gillnet, maximum 275 m length, minimum 25 mm mesh.

Year round on west coast of Vancouver Island, north of Barkley Sound and all areas north of Cape Caution due to PSP levels. Harvesting in PSP closed areas under permit January 1 - April 30 and November 1 - December 31.

Butter 63 mm, Little Neck 38 mm, Manilla 38 mm and Razor 90 mm.

- Requires category Z licence.
- Some areas of traditional recreational fisheries or Indian food fisheries are closed to commercial fishing.
- PSP closures may be expected.
- In areas marginally contaminated by PSP, a carefully controlled commercial harvest is permitted under special permit and sponsorship by a registered processing plant. Contact Vancouver headquarters for additional information.

**(NON-LIMITED ENTRY)**

<b>Fishery</b>	<b>Area Quotas</b>	<b>Gear Limitations</b>
MUSSELS		Hand picking or hand tools only.
OCTOPUS		Trap.  Hand picking and diving.  No hooks, gaffs, spears or pointed instruments. No copper sulfate. No chemicals in intertidal zone.
SQUID		Seine and hook and line only.
OYSTERS		Hand picking or hand tools only.
<b>CRUSTACEANS</b>		
CRABS: DUNGENESS KING RED ROCK		No spears, jigs, gaffs, rakes or sharp pointed instruments. Escape mechanisms for juvenile crabs required in traps.
CRAYFISH		

**Closed Seasons****Size Limits****Additional Licences and Regulatory Controls  
[N.B. Consult introduction to these tables for  
general conditions.]**

Year round on west coast of Vancouver Island, north of Barkley Sound and all areas north of Cape Caution due to PSP levels.

- Requires a category Z licence.
- All areas subject to immediate closure due to PSP or sewage contamination.

District 1 closed.

- Scheduled under C licence when fishing with a vessel.
- Catch logs are required.
  
- Requires category Z licence when fishing without a vessel.

- Requires a category Z licence.

- This fishery and related aquaculture managed by the B.C. Ministry of Environment, Marine Resources Branch.

Year round in English Bay and in Burrard Inlet between First and Second Narrows. May 15 - June 15, waters of Johnstone Strait, Strait of Georgia, Juan de Fuca Strait and District 1 closed. July 15 - August 15, all other waters closed.

Dungeness 165 mm; Red Rock 115 mm; measured at the widest part of the body shell.

- Scheduled under C licence.
- The department will monitor catch and handling procedures. If a soft shell problem develops or if crabs are being turned over by extreme fishing pressure, closures will be implemented.

District 1 closed February 1 - February 28.

Minimum 9 cm overall length.

- This developing fishery is being monitored.
- Permit information is available through any office of the Fish and Wildlife Branch of the B.C. Ministry of Environment.
- Non retention of egg or young-bearing females.

**(NON-LIMITED ENTRY)**

**Fishery**

**Area Quotas**

**Gear Limitations**

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GOOSE BARNACLES

Hand picking and hand tools only.

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PRAWNS

Trap only.

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SHRIMPS  
(by trap)

Trap only.

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**ECHINODERMS**

SEA CUCUMBERS

Diving only.

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SEA URCHINS

Red Sea Urchin: Areas 11, 13, 14, 17, 18, 19, 26 and 27 to be announced. Areas 28 and 29 remain closed until further notice.

Diving only.

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Closed Seasons	Size Limits	Additional Licences and Regulatory Controls [N.B. Consult introduction to these tables for general conditions.]
Some local areas closed for conservation purposes. March 1 - March 31	Under consideration.	<ul style="list-style-type: none"> <li>- Special category Z licence required.</li> <li>- Catch log records required.</li> <li>- PSP closures may apply. Check with a local fishery officer.</li> </ul>
April 1 - August 31.		<ul style="list-style-type: none"> <li>- Scheduled under C licence.</li> <li>- Local areas may be closed for conservation purposes if percentage of females is reduced or strong year classes are not evident.</li> <li>- Escape hole for juveniles is voluntary.</li> </ul>
South coast area (including District 1) closed except for Areas 18, 19 and 20 which are open under scientific permit.		<ul style="list-style-type: none"> <li>- Requires C licence for trapping.</li> <li>- Catch log records are required.</li> <li>- Some areas that support a traditional prawn fishery or that are crab nursery areas are closed.</li> </ul>
June 1 - August 30	Red Sea Urchin 100 mm minimum breadth.	<ul style="list-style-type: none"> <li>- Special category Z licence required.</li> <li>- Catch log records required.</li> <li>- This developing fishery will be monitored.</li> </ul>
		<ul style="list-style-type: none"> <li>- Special category Z licence required.</li> <li>- The department has a voluntary catch log system and requests the cooperation of fishermen in obtaining the much-needed data required for proper management of the resource.</li> </ul>

**(NON-LIMITED ENTRY)**

**Fishery**

**Area Quotas**

**Gear Limitations**

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**ZOOPLANKTON**

PLANKTON

500 mt in Strait of  
Georgia. 25 mt in Howe  
Sound.

Pelagic trawl only.

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**MARINE PLANTS**

VARIOUS SPECIES

**Closed Seasons****Size Limits****Additional Licences and Regulatory Controls  
[N.B. Consult introduction to these tables for  
general conditions.]**

June 1 - August 15 in  
District 1.

- Special category Z licence required.
- Catch log records required.
- Vessel boarding and catch inspection to be permitted.
- Samples of the catch to be forwarded to the department.
- Areas may be closed for high concentrations of juvenile fish.
- Vessel operators to cease fishing if juvenile fish exceed ten specimens per litre of catch.

- *Macrocystis integrifolia* to be harvested in a manner so as to prevent dislodging of the entire plant from the bottom or to prevent straining or breaking of plants; and to be harvested at least 1.52 m from the base.
- *Laminaria* to be harvested individually.
- Area of harvest to be approved by a fishery officer.
- Leasing and permit information is available through the Marine Resources Branch, B.C. Ministry of Environment, Parliament Buildings, Victoria, B.C. V8V 1X5, tel: 387-1537.



WHEN DELIVERING YOUR CATCH, GIVE TALLY MAN THE MAP NUMBER, OR NUMBERS SHOWING THE AREA IN WHICH YOUR FISH WERE CAUGHT.

ACCURATE CATCH REPORTS WILL HELP PRESERVE YOUR FISHERIES.

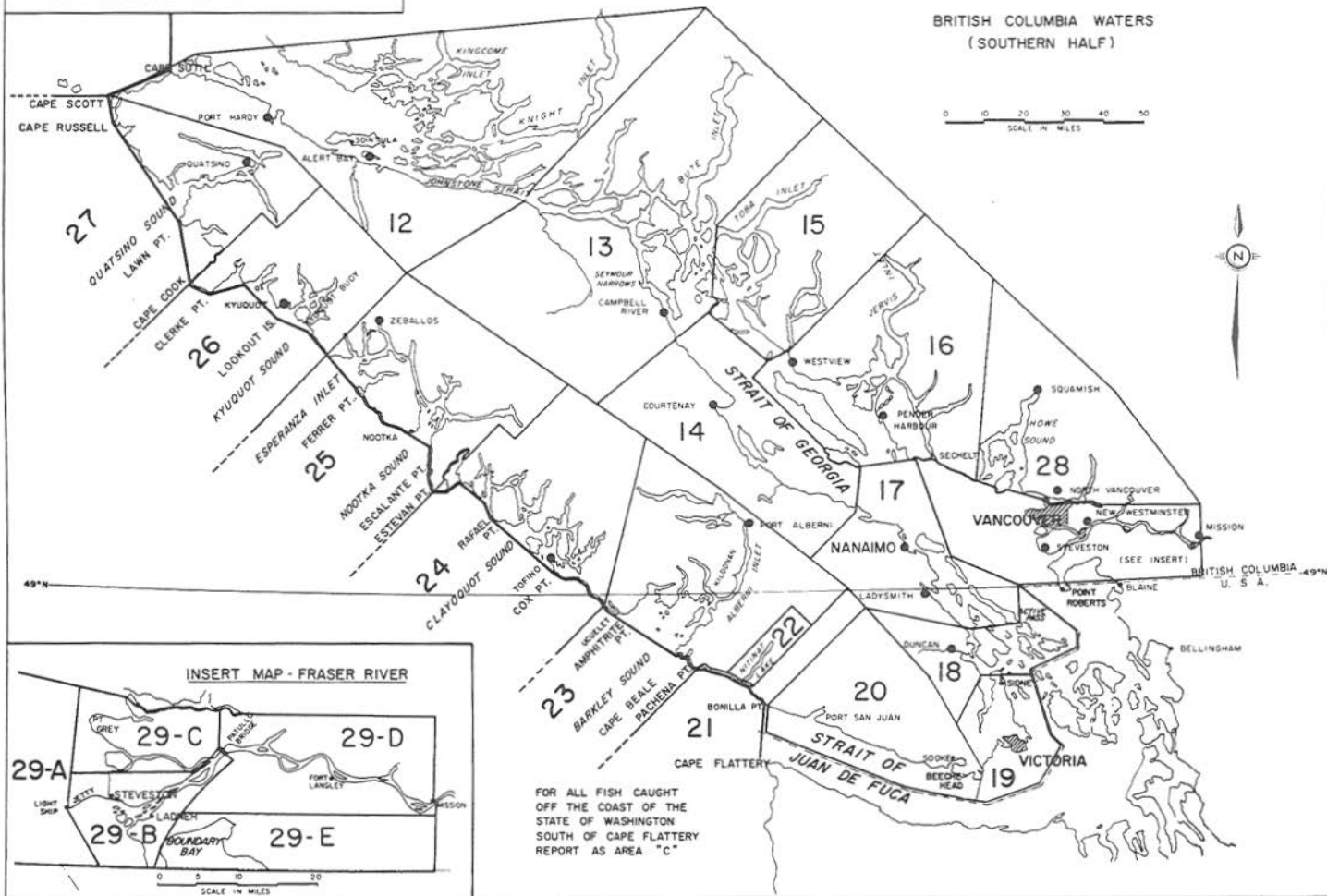
FOR COMPLETE DETAILS ON STATISTICAL AREAS CONSULT BRITISH COLUMBIA FISHERIES REGULATIONS.

SALMON FISHING WITH NETS OF ANY KIND IS NOT PERMITTED OUTSIDE OF — THAT IS SEAWARD OF — THE SURFLINE.

## STATISTICAL MAP

BRITISH COLUMBIA WATERS  
(SOUTHERN HALF)

0 10 20 30 40 50  
SCALE IN MILES



FOR ALL FISH CAUGHT OFF THE COAST OF THE STATE OF WASHINGTON SOUTH OF CAPE FLATTERY REPORT AS AREA "C"

# Sport Fishing Management

Sport fishing management policies are designed to conserve and protect fish through bag and size limits, gear restrictions and spot closures. In 1982, spot closures will be in effect when and where the recreational or commercial catch takes excessive numbers of juvenile coho or chinook, and in terminal areas for the protection of returning adult salmon.

## Sport Fish Licence

A tidal waters sport fish licence, incorporating a chinook salmon catch record this year, provides important data for stock management. The licence also helps offset the costs of resource management and enhancement programs. The licence applies to all "fin fish" and costs residents of Canada \$5 and non-residents, \$20. A one-day licence for residents or non-residents costs \$3.50 and a three-day licence for non-residents costs \$10. Children 15 years of age and under are exempt.

## Sport Fish Ombudsman

An advisor acts as an ombudsman for sports fishermen, representing their interests in policy matters to the Department of Fisheries and Oceans.

To use this service, contact:

Ombudsman  
Recreational Fisheries  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-2768

## Sport Fish Regulations

For specific details of sport fishing regulations, refer to the *1982 British Columbia Sport Fishing Regulations Synopsis for Non-Tidal Waters*, generally available at tackle and sportsgoods stores; and the *1982 British Columbia Tidal Waters Sport Fishing Guide* available at Fisheries and Oceans offices, tackle and sportsgoods stores, marinas, or:

Information Branch  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1384

In the Yukon, information is available in the *Yukon Sport Fishery Regulations Synopsis* published by the territorial government.

# Fish Quality Improvement Program

In 1980, the Minister of Fisheries and Oceans announced the initiation of a national Fish Quality Improvement Program. In the past few years Canada has become the biggest exporter of fish in the world in terms of the value of fish products, with export earnings of over \$1 billion annually. To keep this trend going, more money must be obtained for the catches as the rate of catch is already at or near maximum levels. To obtain maximum dollar value, a high emphasis must be placed on quality from the time of harvesting, through processing, to final marketing.

To achieve this quality objective, the Fish Quality Improvement Program will contain a number of elements:

**Vessel Certification**—As this is already a condition of licensing, activities will be restricted to monitoring and upgrading operating practices to ensure quality preservation.

**Dockside Grading**— The dockside grading of fish will be encouraged in recognition of those fishermen who take extra care to land top quality fish. This will probably be achieved by the certification of qualified graders.

**Unloading, Dockside Handling and Transportation to Plants**— Regulations will be amended to prohibit the use of equipment that damages fish. Approved water supplies will be required at all unloading sites. The handling and transportation of fish will be monitored closely to ensure quality preservation.

**Improved Quality Control in Processing Plants**— Guidelines are being developed with the Fisheries Council of Canada for good manufacturing practices and quality control in the plants.

**Final Product Grade Standards**— Standards are being developed with industry for groundfish fillets, frozen herring fillets, cured herring products and B.C. salmon.

A series of advisory articles covering recommended practices for handling fish in specific fisheries is available from local department inspection offices, or:

Fish inspection Division  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-1803

## Observe, Record, Report

The Observe, Record, Report (ORR) program was developed to assist the general public, including commercial and sport fishermen, in reporting violations. The program includes violations associated with commercial fishing, sport fishing, pollution, infractions of the Provincial Hunting and Firearms Statutes, etc.

Persons wishing to use the system can do so in one of two ways:

- they can complete a violation report card and return it to one of the addresses shown on the card;

or

- they can record the information on the card and for a quicker response, call a toll-free telephone number, **Zenith 2235**.

Report cards are obtainable from any office of the Department of Fisheries and Oceans, or any office of the B.C. Ministry of Environment.

The Zenith number is monitored 24 hours a day throughout the year. The operator taking the call will ensure your information is passed on to the appropriate officer or agency for action.

Immediate response is not always possible, but every effort is made to investigate each complaint received.

We request your assistance in protecting your resource and your livelihood. If you see a potential violation, send a report card to:

Department of Fisheries and Oceans  
General Investigation Unit  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

or

Ministry of Environment  
Fish and Wildlife Branch  
Enforcement Section  
Parliament Buildings  
Victoria, B.C.  
V8W 2H1

or:

Call **Zenith 2235**, toll free.

# Salmon Test Fishing Charters

During the 1982 salmon season the department requires a number of vessels for test fishing and tagging in the North Coast and South Coast waters. Projects will be advertised through the press, but fishermen who wish to bid on these charters will be put on a mailing list for information if they identify the statistical areas they are interested in, state gear type, and submit name and address.

## Contacts:

### South Coast Charters

Dave Schutz  
Senior Biologist  
South Coast and Vancouver Island Division  
Department of Fisheries and Oceans  
Mainfloor, 60 Front Street  
Nanaimo, B.C.  
V9R 5H7

### North Coast Charters

Senior Biologist  
North Coast Division  
Department of Fisheries and Oceans  
Room 109, 417 2nd Avenue West  
Prince Rupert, B.C.  
V8J 1G8

## Tag Returns

The technique of tagging fish as an investigative method is now widespread on the Pacific Coast of Canada. Information from recovered tags helps scientists develop conservation and enhancement policies that directly benefit commercial and recreational fishermen and the fishing industry.

The success of the tagging program depends on the cooperation of fishermen and shore workers in returning tags promptly with accurate and definitive recovery information. In some cases, rewards may be offered as incentives for tag returns, as well as compensation for the loss of the fish if it must be surrendered with the tag.

### Salmon Head Recovery Program

A clipped adipose fin on chinook, coho or steelhead salmon indicates the presence of a minute coded-wire tag in the nose cartilage. Over two million hatchery and wild juveniles are tagged annually in British Columbia. Coded-

wire tags provide biologists with information on the timing and routes of migration and the contribution of these fish to various fisheries.

Department staff checks for tagged fish in approximately 20 percent (over one million) of the commercial salmon catch at Prince Rupert, Namu, Port Hardy, Ucluelet, Tofino, Victoria and Vancouver. About 30,000 fish with clipped adipose fins are found and the tags decoded.

In a voluntary sports sampling program, sports fishermen are requested to remove the heads from salmon they catch which have a missing adipose fin and return each head with a tag label giving details of recovery to any of the 150 depots located at boat ramps, marinas, tackle shops and Fisheries and Oceans offices throughout the British Columbia coast. Sport fishermen who turn in heads are eligible for one of eight annual bonus draws. Each draw carries one \$500 prize and six \$50 prizes.

## Peterson Disc and Floy Tagging Programs

Peterson disc and floy tags attached below the dorsal fin of salmonids and other fish species, provide scientists with escapement estimation, migration timing, stock composition and exploitation information.

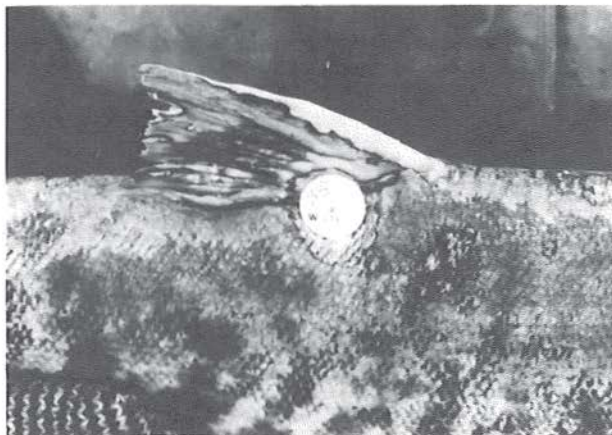
Major programs in 1981 included tagging of all species of the Skeena and Nass stocks passing through the Dundas Island area; chum tagging in Cumshewa Inlet and pink tagging in Fisher-Fitzhugh Sound area and Knight Inlet.

Possible tagging programs in 1982, depending on budget and priorities, include a large tagging program between Canada and the United States of sockeye and pink salmon on both sides of the Alaska-British Columbia boundary. The Dundas Island area tagging may be continued as well as localized taggings in the central area, possibly including sockeye tagging in the approaches to Rivers Inlet and Smith Inlet. Tagging may also be carried out on the Stikine River stocks and on Area 12 mainland inlet pinks.

Recovered tags, which may be returned in stamped, addressed envelopes available from Fisheries and Oceans offices, are acknowledged with a letter describing when and where the tag was applied. Some tagging programs have set up a draw system in which those who return tags may win cash prizes from \$50 to \$1,500.

Tags should be sent with the finder's name (including the usual first name), address, and the location, date and method of recovery to:

Department of Fisheries and Oceans  
P.O. Box 2085  
Vancouver, B.C.  
V6B 9Z9



*Peterson disc below dorsal fin of chum salmon.*

## Herring Tagging

Since the major herring tagging programs of 1936-67, the nature of the fishery has substantially changed and a finer stock definition is needed for efficient management. In addition, it is necessary to know which stocks are caught in non-roe fisheries so that these are not re-exploited in other fisheries.

To obtain this information, 55,000 herring were tagged coastwide in 1979 and 1980 with an orange floy spaghetti-type tag and released. From July 1, 1980 to June 30, 1981, 155 of these tags were recovered in the commercial fishery. A larger tagging program was undertaken in 1980-81 and 111,000 tags were applied—30,000 during the herring food fisheries on the west coast of Vancouver Island and in the Strait of Georgia; 71,000 in the roe season in various locations throughout British Columbia and 10,000 during September on the west coast of Vancouver Island.

Plans for 1982 include localised tagging in lower Georgia Strait, Browning Entrance, Barkley Sound and Kitkatla.

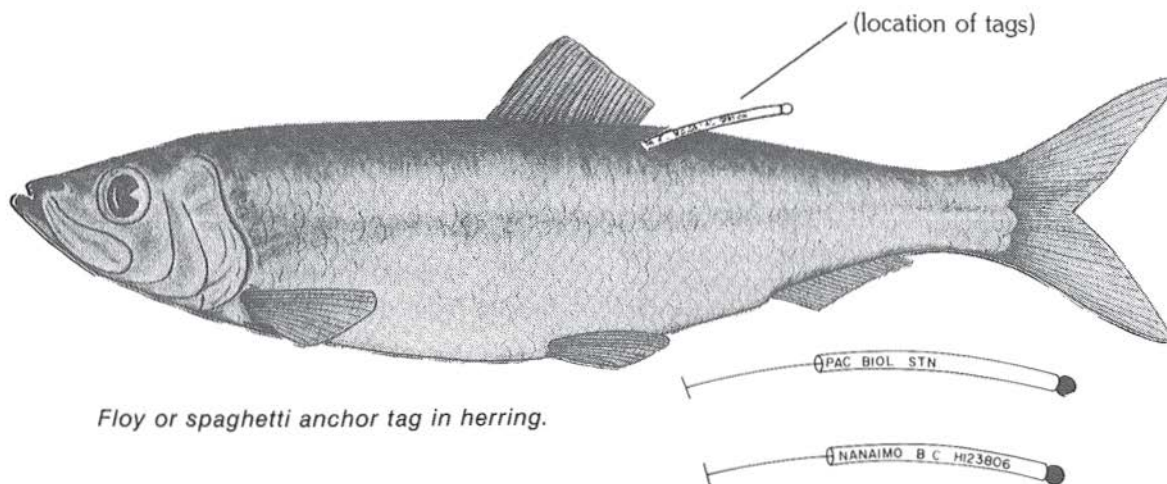
Finders on vessels of tagged fish should report tag number, vessel name and type, gear type, date and location of catch. Finders in processing plants should include tag number, plant name and address, date and time of recovery, fish lot number and location of recovery in the plant.

A \$2 reward is offered for each returned tag and postage-paid envelopes for recovery information are available at plants or Fisheries and Oceans offices.

Send information to:

Herring Tags  
Pacific Biological Station  
Nanaimo, B.C.  
V9R 5K6

Tel: 758-5202



*Floy or spaghetti anchor tag in herring.*

### Groundfish Tagging

Groundfish tagging programs provide information on stock differentiation, migration patterns, determination of growth rates, etc.

In 1981, a total of 20,000 blackcod were floy-tagged coastwide; approximately 18,500 sablefish and 2,400 rockfish were floy-tagged in Queen Charlotte Sound and south west Vancouver Island, and almost 3,400 dogfish were tagged with modified disc tags in Georgia Strait and Hecate Strait.

Previous tagging programs include blackcod off the Queen Charlottes and Vancouver Island; lingcod off the southwest coast of Vancouver Island and southern Georgia Strait; Pacific cod in Georgia Strait and dogfish in the Campbell River area.

In 1982, rockfish on the west coast of Vancouver Island and rock sole in Hecate Straits may be floy-tagged and additional disc tagging of dogfish may be undertaken.

Fisheries requires surrender of the whole tagged fish and recovery details such as date, location and method of capture, plus name and address of the finder.

The finder should contact:

Nev Venables  
Room 22, 975 Centennial Avenue  
Vancouver, B.C.  
V6A 1A3

Tel: 254-4144 (collect)

or

Janet Lucas  
417-2nd Avenue West  
Prince Rupert, B.C.  
V8J 1G8

Tel: 624-6356 (collect)

or

Carol Roy  
Pacific Biological Station  
Nanaimo, B.C.  
V9R 5K6

Tel: 758-5202 (collect)

### **Abalone Tagging**

In 1981, a total of 700 tagged abalone were released into Juan Perez Sound. No abalone will be tagged in 1982.

In 1979, 2,300 abalone were tagged in Juan Perez Sound, Queen Charlotte Islands, with yellow plastic floy tags to determine yearly growth. If found, DO NOT DISTURB.

In 1976 and 1977, 800 abalone were tagged with yellow Peterson disc tags in Barkley Sound. If recovered, the shell should be forwarded to:

Pacific Biological Station  
Box 100  
Nanaimo, B.C.  
V9R 5K6

Attention: Paul Breen

For further information on tagging programs contact:

Don Bailey  
Manager, Salmon Services  
1090 West Pender Street  
Vancouver, B.C.  
V6E 2P1

Tel: 666-2606

# Search and Rescue

The Rescue Coordination Centre (RCC), Victoria, B.C. coordinates marine and air search and rescue in British Columbia. Canadian Armed Forces and Coast Guard Personnel staff the centre 24 hours a day, seven days a week.

To obtain assistance or report a distress, contact the Victoria Rescue Coordination Centre by:

**telephone**—dial 112-732-4141 (or ask the operator for "Marine Distress");

or

**marine radio**—call a Coast Guard Radio Station on CH 16 VHF or 2182 kHz HF.

*Note: Coast Guard Radio Stations do not monitor CH 09 CB*

## DISTRESS RADIO PROCEDURE

Follow these procedures for vessel and/or persons in distress when requesting assistance from the Victoria RCC via a Coast Guard Radio Station:

If the danger to the vessel and/or person on board *is immediate* (for example: vessel afire or sinking; seriously ill or injured person):

- repeat "MAYDAY, MAYDAY, MAYDAY;"
- give your vessel's name;
- give your position;
- give the number and condition of persons on board;
- describe the nature of your distress;
- describe your vessel.

If the danger to the vessel and persons *is not immediate* (for example: out of fuel or engine failure):

- repeat " PAN-PAN, PAN-PAN, PAN-PAN;"
- give your vessel's name;
- give your position;
- give the number and condition of persons on board;
- describe the nature of your distress;
- describe your vessel.

## SAR ASSISTANCE

### Self Assistance

Because in most cases rescue assistance will not be immediate, be prepared to assist SAR facilities in locating your vessel and be prepared to survive until you are located. Carry the required safety equipment, i.e. flares, lifejackets, rafts, survival suits, etc. Ensure they are carefully maintained and accessible.

### Helicopter Assistance

The following are instructions for mariners in the event a mercy marine case is carried out by helicopter. For safety and efficiency it is requested that all mariners follow the outlined procedures as closely as possible.

If your boat is not disabled and it becomes necessary to transfer personnel to the helicopter, this will be accomplished with the use of the rescue baskets. Under these circumstances, the skipper should be aware of the following procedures:

- Keep your boat underway at about 3-5 knots, and maintain a course with the wind about 15° off the port bow. It is easier for the helicopter pilot to hover into the wind.
- Secure all loose deck gear i.e. skiffs, floats, hatches.
- Lower all obstructions, such as signal mast, antenna, etc.
- When the basket is lowered, allow it to ground immediately against the boat to permit static electricity to flow off.
- NEVER, NEVER, NEVER, secure the basket or hoist cable to any part of the boat.

## Itinerary and Estimated Time of Arrival

Before setting out, advise a member of your family or other responsible person of your intended destination, route and time of arrival. This person should be able to advise the RCC of the following information should you become overdue:

Vessel's Name: \_\_\_\_\_  
Type: \_\_\_\_\_  
Licence No: \_\_\_\_\_  
Owner's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Tel. No: \_\_\_\_\_  
Colour of Hull: \_\_\_\_\_  
Deck: \_\_\_\_\_  
Superstructure: \_\_\_\_\_  
Cabin (Forward/  
Midship/Aft: \_\_\_\_\_  
Number of Masts: \_\_\_\_\_  
Length of Vessel: \_\_\_\_\_  
Radio Frequencies: \_\_\_\_\_  
Intended Destination: \_\_\_\_\_  
Intended Route: \_\_\_\_\_  
Types of Distress Signals: \_\_\_\_\_  
Emergency Equipment: \_\_\_\_\_  
Number of Crew: \_\_\_\_\_  
Vessel left: \_\_\_\_\_ at \_\_\_\_\_ am/pm  
Vessel due back: \_\_\_\_\_ at \_\_\_\_\_ am/pm

SEARCH and RESCUE should be informed if vessel not reported by:

\_\_\_\_\_ am/pm on \_\_\_\_\_  
(date)

## PRIMARY FACILITIES

Vessels and aircraft which are operated primarily for search and rescue are called primary facilities. The following primary facilities are coordinated by the Victoria RCC:

### Marine Primary Facilities

(operated by the Canadian Coast Guard)

#### R Class Cutters

Normally two 30 m R Class Cutters (*Racer*, *Ready*) are based in Victoria while a third (*Rider*) is based in

Vancouver. All three, however, maintain continuous patrol along the B.C. coast from its southern boundaries north to Alaska. These vessels have a top speed of 18 knots, are equipped with an extensive array of SAR equipment and are on immediate standby at all times. As with the majority of primary vessels the R Class Cutters monitor CH 16 VHF and 2182 kHz HF on a 24 hour-a-day basis.

A new 62 m offshore type SAR vessel (*CGS George Darby*) will enter service in early 1982 to supplement the operations of the R Class Cutters.

#### Lifeboats, Inshore Cutters and Hovercrafts

There are three 14 m lifeboats which are located at Bamfield (*CG104*), Tofino (*CG 105*), and Bull Harbour (*CG 106*). These vessels have a top speed of 14 knots and a normal range of 80 km. Inshore cutters are based at Prince Rupert (*CG 123*), Campbell River (*CG Relite*), Ganges (*CG 122*), and Vancouver (*CG Swift* and *CG Moorhen*). In addition there are two hovercraft (*CG 021*) and (*CG 039*) stationed at Vancouver International Airport. All of these vessels monitor CH 16 VHF and 2182 kHz FM while on patrol and maintain telephone watch while alongside.

A new 21 m CG SAR vessel will enter service in Campbell River in early 1982. A new hovercraft (*CG 045*) will enter service in Nanoose Bay in early 1982.

#### Inshore Rescue Boats

During the months June, July and August, the Coast Guard operates 7 m Inshore Rescue Boats at Victoria (*IRB 501*), Silva Bay (*IRB 503*), French Creek (*IRB 504*), Pender Harbour (*IRB 505*) and Powell River (*IRB 507*). These vessels monitor CH 16 VHF while on patrol and maintain telephone watch while alongside.

#### Coast Guard Auxiliary

There are now 145 Coast Guard Auxiliary vessels spread throughout most coastal areas available for SAR operations.

*Note: All CG vessels carry but do not monitor Citizen's Band radio.*

### **Air Primary Facilities**

(operated by the Canadian Armed Forces)

#### **Labrador Helicopters (442 Squadron)**

The Canadian Armed Forces operate four Labrador helicopters from their base at Comox, B.C. During weekdays, from 0800 hours to 1600 hours, these craft are on a 30-minute standby. Outside these hours they are on a two-hour standby.

*Note: The Coast Guard does not operate primary SAR helicopters.*

#### **Buffalo Fixed-Wing Aircraft (442 Squadron)**

The Canadian Armed Forces operate three Buffalo short take-off and landing (STOL) aircraft from Comox that are on the same standby as the helicopters.

### **MULTI-TASKED VESSELS**

In addition to the foregoing primary facilities, the Victoria RCC also coordinates certain vessels from the Department of Fisheries and Oceans when they are available for SAR activities. These vessels are referred to as "multi-tasked" and are located as follows:

Queen Charlotte City (*FPV Arrow Post*)

Alert Bay (*FPV Chilco Post*)

Victoria (*FPV Tanu and FPV Laurier*)\*

\*These vessels patrol the west coast of Vancouver Island, Queen Charlotte Sound and the west coast of the Queen Charlotte Islands.

*Note: These multi-tasked vessels monitor CH 16 VHF and 21 82 kHz. They carry but do not monitor Citizen's Band radio.*

During the herring roe season, vessels from the Department of Fisheries and Oceans, Institute of Ocean Sciences, are temporarily "multi-tasked."

### **SECONDARY FACILITIES**

The Victoria RCC may also coordinate other facilities to which search and rescue is a secondary task. These resources are called secondary facilities and include the following:

Canadian Marine Rescue Auxiliary (CMRA)

Provincial Emergency Program (PEP)

Canadian Armed Forces (warships)

Pacific Pilotage Authority

#### **Contact:**

Fisheries and Oceans Search and Rescue is under the direction of:

Captain B. Gordon Irving

Ship Division

1090 West Pender Street

Vancouver, B.C.

V6E 2P1

Tel: 666-2646

# West Coast Marine Channels

CHANNEL	SHIP TRANSMIT	SHIP RECEIVE	NATURE OF SERVICE AND PRIMARY USERS
<b>Distress Safety and Calling</b>			
16	156.800	156.800	Intership/Shipshore Distress and Calling
Intership			
6	156.300	156.300	Intership — Domestic and Foreign
<b>Commercial Operations</b>			
5A	156.250	156.250	Intership/Shipshore — Fishing Industry
7A	156.350	156.350	Intership/Shipshore — Towboat Industry
8	156.400	156.400	Intership only
9	156.450	156.450	Intership/Shipshore
10	156.500	156.500	Intership/Shipshore — Towboat Industry
18A	156.900	156.900	Intership/Shipshore — Towboat Industry
22A	157.100	157.100	Intership/Shipshore — for non CCG stations to work CCG stations
67	156.375	156.375	Intership/Shipshore
72	156.625	156.625	Intership only
73	156.675	156.675	Intership/Shipshore
78A	156.925	156.925	Intership/Shipshore — Fishing Industry, also used by Fisheries Patrol Vessels to broadcast local fishing patterns
79A	156.975	156.975	Intership/Shipshore — Fishing Industry
80A	157.025	157.025	Intership/Shipshore — Other than Towing and Fishing
<b>Non Commercial — Pleasure Craft</b>			
9	156.450	156.450	Intership/Shipshore
22A	157.100	157.100	Intership/Shipshore — for non CCG stations to work CCG stations
67	156.375	156.375	Intership/Shipshore
68	156.425	156.425	Intership/Shipshore
69	156.475	156.475	Intership/Shipshore
70	156.525	156.525	Intership only
72	156.625	156.625	Intership only
73	156.675	156.675	Intership/Shipshore
<b>Navigation — Vessel Traffic Management</b>			
11	156.550	156.550	V.T.M. — Ship Movement
12	156.600	156.600	V.T.M. Ship Movement

CHANNEL	SHIP TRANSMIT	SHIP RECEIVE	NATURE OF SERVICE AND PRIMARY USERS
13	156.650	156.650	V.T.M. — Ship Movement
14	156.700	156.700	V.T.M. — Ship Movement
71	156.575	156.575	V.T.M. — Ship Movement
74	156.725	156.725	V.T.M. — Ship Movement

#### Public Correspondence

23	157.150	161.750	Shipshore — Marine Telephone Service
24	157.200	161.800	Shipshore — Marine Telephone Service
25	157.250	161.850	Shipshore — Marine Telephone Service
26	157.300	161.900	Shipshore — Marine Telephone Service
27	157.350	161.950	Shipshore — Marine Telephone Service
28	157.400	162.000	Shipshore — Marine Telephone Service
84	157.225	161.825	Shipshore — Marine Telephone Service
85	157.275	161.875	Shipshore — Marine Telephone Service
86	157.325	161.925	Shipshore — Marine Telephone Service
87	157.375	161.975	Shipshore — Marine Telephone Service
88	157.425	162.025	Shipshore — Marine Telephone Service

#### Weather Broadcast Service

21B	*	161.650	Ministry of Transport Marine Weather Broadcast
WX1	*	162.550	Ministry of Transport Marine Weather Broadcast
WX2	*	162.400	Department of the Environment General Weather Broadcast
WX3	*	162.475	United States Government Weather Service
WX4	*	162.650	United States Government Weather Service

\* receive only

The following are restricted channels for specifically authorized stations:

#### Canadian Coast Guard (CCG)

19A	156.950	156.950	Intership/Shipshore - CCG stations only
21A	157.050	157.050	Intership/Shipshore — CCG stations only
81A	157.075	157.075	Intership only — CCG anti-pollution
82A	157.125	157.125	Intership/Shipshore — CCG stations only
83	157.175	161.775	Intership/Shipshore — CCG stations only

#### Port Operations — Pacific Pilotage Authority

17	156.850	156.850	Intership/Shipshore — Vessel Docking/Manoeuvres
77	156.875	156.875	Intership only — Vessel Docking Manoeuvres
20	157.000	161.600	Shipshore only — where authorized

#### Government Operations

15	156.750	156.750	Department of the Environment only
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CHANNEL	SHIP TRANSMIT	SHIP RECEIVE	NATURE OF SERVICE AND PRIMARY USERS
<b>Towboat</b>			
65A	156.275	156.275	Seaspan — Authorized stations only

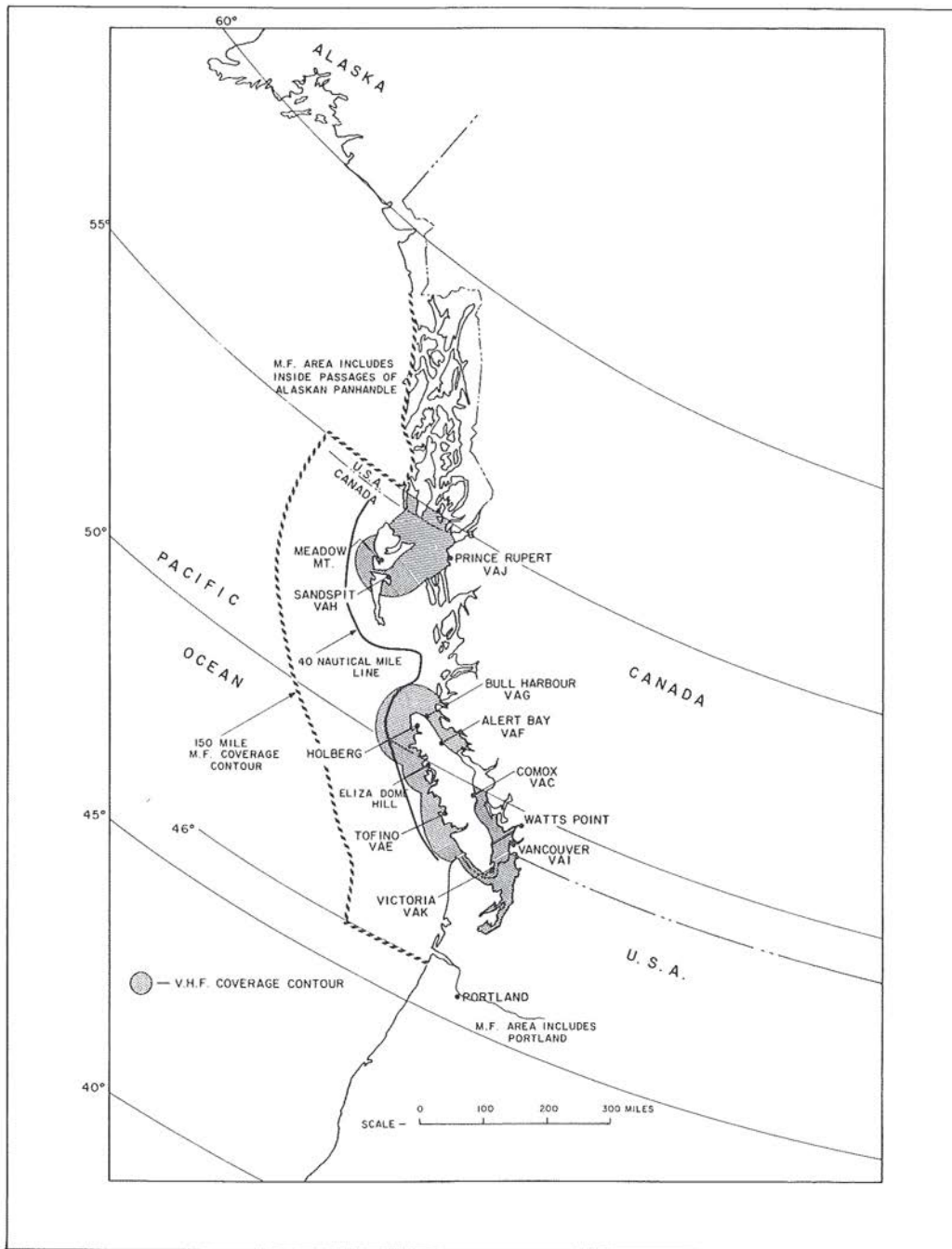
- (a) "A" following a channel number means Simplex Operation on the ship station transmitting frequency  
 (b) "B" following a channel number means ship stations receive only on the higher coast station transmitting frequency

SHIP TRANSMIT	SHIP RECEIVE	NATURE OF SERVICE AND PRIMARY USERS
1630	1630	Public Correspondence and Weather (A 3H/J)
2015	2538	B.C. Telephone — Fishing Industry
2040	2040	Intership — vessels other than fishing and towing (A3H/J)
2054	2054	Public Correspondence and Weather (A3H/J)
2142	2558	B.C. Telephone — Towboat Industry
2166	2590	B.C. Telephone — Business or Pleasure
2182	2182	INTERNATIONAL DISTRESS AND CALLING (A3H) and (6A3)
2212	2260	B.C. Telephone — Pleasure Craft
2318	2318	Intership — Fishing vessels (Fisheries changes in fishing patterns available on request) (A3H/J)
2340	2458	Public Correspondence
2366	2366	Intership — Other than fishing vessels (A3H/J)
2638	2638	Intership — shared with U.S. vessels (A3H/J)
2708	2469	B.C. Telephone — Business or Pleasure
2738	2738	Intership — shared with U.S. vessels (A3H/J)
2798	2060	B.C. Telephone — Business or Pleasure
4090.9	4385.3	Public Correspondence (A3A/J)
4115.7	4410.1	B.C. Telephone — Aircraft and Long Range Ships
4174.5	4354.5	Radiotelephone (F1)
4363.6	4069.2	Public Correspondence (A3A/J)
6212.4	6518.8	Public Correspondence (A3A/J)
6260.5	6498.5	Radiotelephone (F1)
8213.6	8737.5	Public Correspondence (A3A/J)
8356.0	8717.0	Radiotelephone (F1)

#### Type of Emission

- (A3A/J) Single sideband — reduced carrier or single sideband — suppressed carrier  
 (A3H/J) Single sideband — full carrier or single sideband — suppressed carrier  
 (A3J) Single sideband — suppressed carrier  
 (A3H) Single sideband — full carrier  
 (F1) Radioteletype  
 (6A3) Double sideband — full carrier (AM)

# West Coast of Canada VHF and MF Coverage



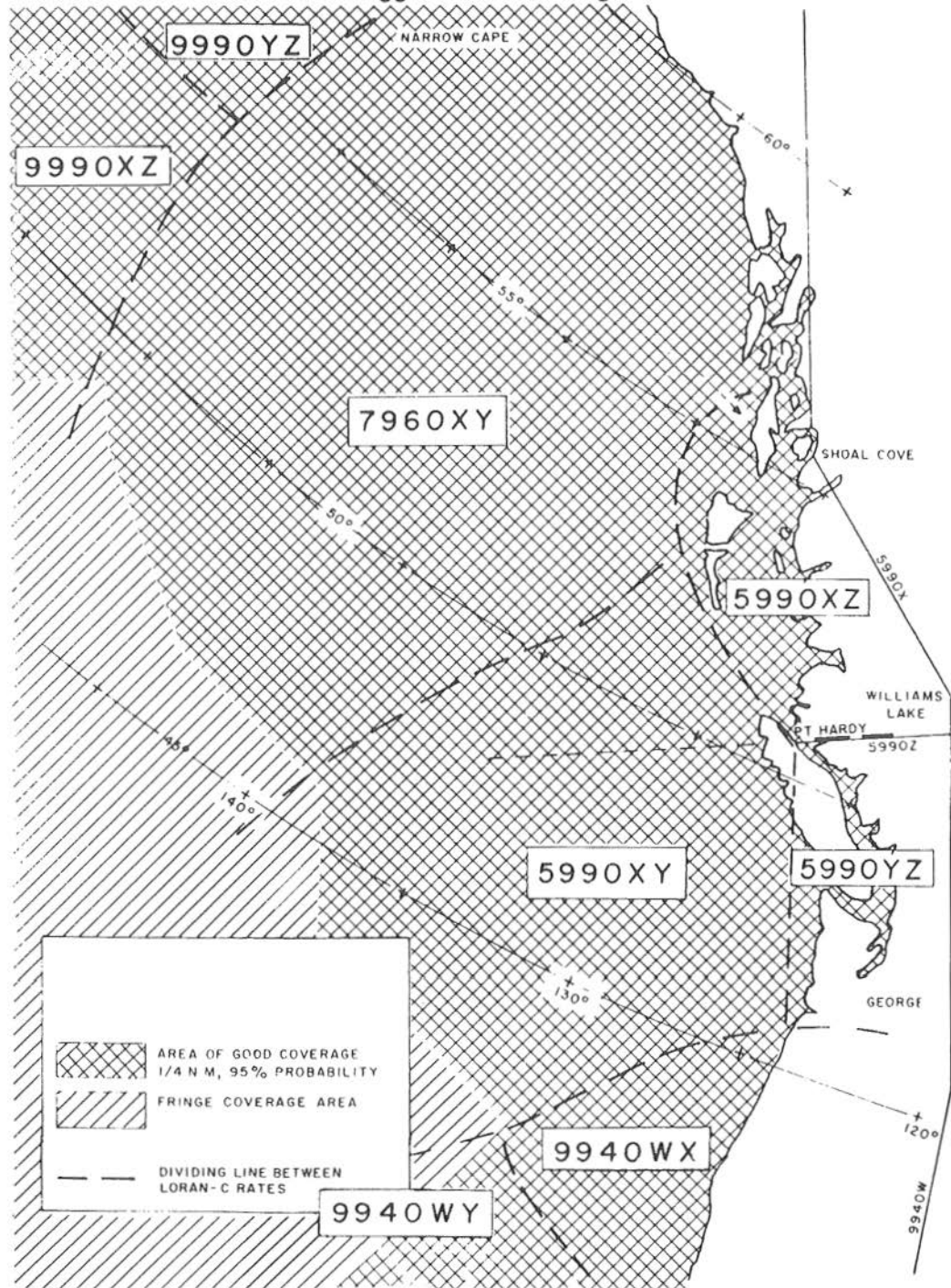
Note: Areas of Radio coverage depicted on this map are based upon theoretical predictions.

# Canadian West Coast Loran-C Chain

STATION	LATITUDE LONGITUDE (2)	STATION FUNCTIONS	RADIATED PEAK POWER
Williams Lake, B.C.	51 57 59.21N 122 21 56.68W	Master	400 kW
Shoal Cove, Alaska (1)	55 26 21.97N 131 15 12.86W	X Secondary	400 kW
George Washington (1)	47 03 48.82N 119 44 34.78W	Y Secondary	1200 kW
Port Hardy, B.C. (3)	50 36 30.47N 127 21 22.84W	Z Secondary	400kW

- (1) Station operated by the United States of America.
- (2) Based on 1927 North American Datum (Coordinate System for charting).
- (3) West of Northern Vancouver Island, the X and Y Loran-C position lines should be used even though the Port Hardy Transmitter provides a strong signal in this area. The Z position lines in this area are very widely spaced, being close to the base line extension and do *NOT* give accurate fixes.

# Loran-C in Western Canada: Suggested Chain Usage



# Marine Weather Broadcasts

Weather broadcasts are made simultaneously on channels 1630 KHz, 2054 KHz and 21B (161.65 MHz). Alert Bay and Comox also broadcast on WX1 (162.55 MHz.)

**Alert Bay, B.C. (VAF)**—continuous taped marine broadcasts of weather synopsis and forecasts with live transmissions at 0415, 0605, 0720, 0845, 1505, 1120, 1820 and 2020 hours daily.

Local reports for the following areas: Addenbrook Island, Alert Bay, Boat Bluff, Bull Harbour, Cape St. James, Cape Scott, Chatham Point, Dryad Point, Egg Island, Estevan Point, Ivory Island, Lennard Island, McInnis Island, Nootka, Pine Island, Pointer Island, Pultney Point, and Quatsino.

**Bull Harbour, B.C. (VAG)**—broadcasts at 0420, 0545, 0715, 0740, 0905, 1140, 1525, 1825, 2045 and 2240 hours daily.

Local reports for the following areas: Addenbrook Island, Boat Bluff, Bull Harbour, Cape Scott, Cape St. James, Dryad Point, Egg Island, Ivory Island, McInnis Island, Pine Island, Pointer Island, Pultney Point, Quatsino and Scarlett Point.

**Comox, B.C. (VAC)**—broadcasts at 0635, 0920, 1240, 1535, 1835, 2035 and 2220 hours daily.

Local reports for the following areas: Ballenas Island, Cape Lazo, Cape Mudge, Chatham Point, Chrome Island, Entrance Island, Grief Island, Merry Island, Sand Heads and Sister Island.

**Prince Rupert, B.C. (VAJ)**—broadcasts at 0045, 0505, 0750, 0915, 1350, 1810 and 2215 hours daily.

Local reports for the following areas: Bonilla Island, Cape St. James, Ethelda Bay, Green Island, Langara Island, Lawyer Island, Lucy Island, Prince Rupert, Rose Spit, Triple Island.

**Sandspit, B.C. (VAH)**—broadcasts at 0110, 0440, 0935, 1050, 1420, 1840 and 2120 hours daily. In addition to regular frequencies, also broadcasts on channel 26 at the above mentioned times.

Local reports for the following areas: Bonilla Island, Cape St. James, Ethelda Bay, Langara Island, Rose Spit, Sandspit and Triple Island.

**Tofino, B.C. (VAE)**—broadcasts at 0425, 0535, 0645, 0850, 1150, 1520, 1750 and 1950 hours daily.

Local reports for the following areas: Amphitrite Point, Cape Beale, Cape Scott, Carmanah Point, Estevan Point, Lennard Island, Nootka, Pachena, Quatsino and Sheringham Point.

**Vancouver, B.C. (VAI)**—broadcasts daily at 0410, 0515, 0710, 0910, 1220, 1510, 1805 and 2010 hours.

Local reports for the following areas: Ballenas Island, Cape Lazo, Chrome Island, Discovery Island, East Point, Entrance Island, Merry Island, Point Atkinson, Race Rocks, Sand Heads, Sisters Island and Trial Island.

**Victoria, B.C. (VAK)**—broadcasts at 0450, 0615, 0705, 1210, 1450, 1815 and 2005 hours daily.

Local reports for the following areas: Carmanah Point, Discovery Island, Race Rocks, Sheringham Point and Trial Island.

## Commercial Radio Stations that Broadcast Marine Weather

CALL SIGN	FREQUENCY	STUDIO LOCATION	TRANSMITTER COORDINATES	TELEPHONE NUMBER
CBU	690	Vancouver	49 08 15N 123 12 00W	665-7080
CBUF-FM	97.7	Vancouver (French)	49 21 12N 122 57 18W	665-8039
CFAX	1070	Victoria	48 23 50N 123 18 20W	386-1070
CFCP	1440	Courtenay	49 41 01N 124 58 01W	334-2421
CFMI-FM	101.1	New Westminster	49 20 43N 122 58 17W	521-4808
CFMS-FM	98.5	Victoria	48 25 05N 123 30 35W	384-9311
CFNI	1240	Port Hardy	50 42 24N 127 25 58W	949-6500
CFOX-FM	99.3	Vancouver	49 21 05N 123 04 00W	684-7221
CFPR	860	Prince Rupert	54 17 08N 130 22 28W	624-2161
CFUN	1410	Vancouver	49 07 41N 123 01 41W	731-9222
CFWB	1490	Campbell River	50 01 01N 125 15 42W	287-7106
CHPQ	1370	Parksville	49 17 45N 124 17 37W	248-6178
CHQB	1280	Powell River	49 47 05N 124 36 15W	485-4207
CHQM	1320	Vancouver	49 09 55N 123 02 28W	682-3141
CHQM-FM	103.5	Vancouver	49 21 12N 122 57 18W	682-3141

CALL SIGN	FREQUENCY	STUDIO LOCATION	TRANSMITTER COORDINATES	TELEPHONE NUMBER
CHTK	560	Prince Rupert	54 17 55N 130 23 10W	635-6316
CHUB	1570	Nanaimo	49 07 00N 123 50 30W	753-4341
CISL	940	Richmond	49 08 42N 123 03 09W	274-9940
CJAV	1240	Port Alberni	49 17 01N 124 47 01W	723-2455
CJJC	800	Langley	49 06 56N 122 32 38W	534-5341
CJOR	600	Vancouver	49 10 00N 123 00 54W	669-6060
CJVB	1470	Vancouver	49 07 57N 123 00 18W	688-9931
CJVI	900	Victoria	48 26 29N 123 15 14W	382-0900
CKAY	1500	Duncan	48 44 21N 123 41 58W	748-2529 From Vancouver 685-1815
CKDA	1220	Victoria	48 26 00N 123 14 55W	384-9311
CKLG	730	Vancouver	49 07 57N 123 00 18W	681-7511
CKNW	980	New Westminster	49 09 43N 122 43 50W	522-2711
CKTK	1230	Kitimat	54 03 05N 128 40 50W	635-6316
CKWX	1130	Vancouver	49 09 22N 123 04 00W	684-5131

NOTE: Marine weather broadcast times for individual stations have not been listed due to frequent changes in programming. It should be noted that during summer months (May to September), marine weather broadcasts and forecasts are more frequent than during winter months. In addition, should there be a gale or storm warning in effect, these are broadcast after most newscasts.

# Metric Conversion Chart

*NOTE: This conversion chart is approximate only and provided as a guide to fishermen for their own calculations.*

(1 kg = 2.204 lbs; 1 short ton = 2000 lbs; 1 metric ton = 2204.6 lbs)

## INTO METRIC

If You Know	Multiply By	To Get
<b>LENGTH</b>		
inches	2.54	centimetres
feet	0.3	metres
yards	0.91	metres
miles	1.61	kilometres

## MASS (Weight)

ounces	28.3	grams
pounds	0.45	kilograms
short ton	0.907	metric ton

## VOLUME

cubic feet	0.028	cubic metres
cubic yards	0.76	cubic metres

## OUT OF METRIC

If You Know	Multiply By	To Get
<b>LENGTH</b>		
millimetres	0.039	inches
centimetres	0.39	inches
metres	3.28	feet
kilometres	0.62	miles

## MASS (Weight)

grams	0.035	ounces
kilograms	2.204	pounds
metric tons	1.1	short tons

## VOLUME

cubic metres	35.31	cubic feet
cubic metres	1.31	cubic yards

A publication titled *Fishing in Metric* is available from:

Information Branch                      Tel: 666-1384  
 1090 West Pender Street  
 Vancouver, B.C.  
 V6E 2P1

## Catch Information

Reliable and timely catch information provided by fishermen is essential for good management of fish stocks. In recent years changes in the fleet have made it increasingly difficult for fisheries managers to obtain this information. For example, many seiners and gillnetters hold their catch throughout the fishing week before delivery. Freezer trollers may hold theirs for a month or more.

This delay in actual landings means we must depend more and more on hail figures. There have been several cases in the last few years where, for one reason or another, fishery managers have not had accurate catch figures quickly enough and consequently have closed a

fishery too soon or overfished stocks to the point where returns in the next cycle are threatened.

There are many weaknesses in the sales slip information that the department receives, such as number of fishing days and area of catch. Such problems are the result of a reporting system which has not kept pace with the changes in the fleet. The department is presently working towards correcting this.

Please help us manage the resource better. You can assist by ensuring that information requested on the fishing grounds and on our current sales slips is accurately provided on a timely basis.

# Preliminary Salmon Catch Statistics by Area, 1981

Fraser, January 1 – September 27

Gillnet and Seine – Round Weight; Troll – Dressed Weight Head-On

(Quantities shown in metric tons)

		AREA 28	AREA 29AB	AREA 29C	AREA 29D	AREA 29E
Spring Salmon	Red G.N.		28	2	54	
	Seine					
	Jacks G.N.		6	*	*	
	Seine					
	White G.N.		19	1	16	
	Seine					
	Mixed Troll		1	*		
Sockeye	G.N.		1023	71	738	
	Seine					
	Troll		13	2		
Coho	G.N.		9	*	1	
	Seine					
	Troll		1	*		
Pinks	G.N.		520	34	23	
	Seine					
	Troll		65	2		
Chums	G.N.		3		1	
	Seine					
	Troll		*	*		
Steelhead	G.N.		*	*	*	
	Seine					
	Troll					
Deliveries	G.N.		6393	415	3543	
	Seine					
Days Fishing	Troll		379	170		

\*Less than 500 kg

## Preliminary Salmon Catch Statistics by Area, 1981

North Coast, January 1 – September 27

Gillnet and Seine – Round Weight; Troll – Dressed Weight Head-On

(Quantities shown in metric tons)

		AREA 1	AREA 2E	AREA 2W	AREA 3	AREA 4	AREA 5
Spring Salmon	Red G.N.	13	*	*	14	72	1
	Seine	53		58	21	17	2
	Jacks G.N.	*		*	3	10	*
	Seine	2		1	3	2	*
	White G.N.	*		*	2	11	*
	Seine	4		2	5	4	*
	Mixed Troll	266	88	178	23	16	15
Sockeye	G.N.	104	*	1	350	2807	61
	Seine	192		139	344	279	7
	Troll	11	1	2	1	*	*
Coho	G.N.	40	*	*	22	67	14
	Seine	14		18	16	8	1
	Troll	205	73	71	37	12	5
Pinks	G.N.	41	*	*	225	1494	27
	Seine	211	*	93	693	425	15
	Troll	174	16	46	7	4	*
Chums	G.N.	23	76	2	120	173	37
	Seine	19	1	20	74	33	5
	Troll	9	*	3	1	*	*
Steelhead	G.N.	2		*	5	39	*
	Seine	1		*	1	2	*
	Troll	*	*	*	*		
Deliveries	G.N.	551	176	7	1888	10988	428
	Seine	133	3	95	332	210	13
Days Fishing	Troll	10300	2517	4830	1400	616	572

\*Less than 500 kg

AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 30	AREA TAKU	AREA STIKINE
1	3	36	1	1		1	
15	38	20					
*	*	1	*	*		*	
2	2	4					
*	*	8	*	*		*	
1	2	*					
32	42	16	5	9	3		
48	20	103	134	106		14	
171	142	249					
*	*	1	1	1	*		
26	30	29	7	2		8	
71	53	39					
29	37	30	17	19	2		
170	127	613	131	20		11	
1258	1003	1945					
21	24	52	21	34	9		
109	423	841	27	40		23	
245	326	473					
*	3	3	*	1	1		
1	*	5	*	*		*	
*	*	*					
*	*	*		*			
574	1322	3932	573	337		169	
340	229	445					
1378	2073	1147	611	689	121		

\*Less than 500 kg

## Preliminary Salmon Catch Statistics by Area, 1981

### South Coast, January 1 – September 27

Gillnet and Seine – Round Weight; Troll – Dressed Weight Head-On

(Quantities shown in metric tons)

		AREA 11	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17
Spring Salmon	Red G.N.	1	16	4			1	*
	Seine		111	55		*	6	*
	Jacks G.N.	*	*	*			1	*
	Seine		9	4		*	6	*
	White G.N.	*	*	*			*	*
	Seine		4	1		*	1	
	Mixed Troll	103	41	133	130	31	7	101
Sockeye	G.N.	47	755	79			203	18
	Seine		4513	1539			416	9
	Troll	33	19	24	1	*	8	5
Coho	G.N.	4	66	9			1	*
	Seine		279	92			15	*
	Troll	259	49	20	27	5	2	7
Pinks	G.N.	15	265	29			12	*
	Seine		5185	1788			210	2
	Troll	981	279	122	5	2	5	24
Chums	G.N.	26	86	10			*	*
	Seine		271	118			1	
	Troll	19	2	1		*		*
Steelhead	G.N.	*	2	*			*	
	Seine		1	*			*	
	Troll	1	*	*				*
Deliveries	G.N.	118	3430	616			787	34
	Seine		2415	1202		1	161	5
Days Fishing	Troll	8012	3903	4147	3960	1012	413	1982

\*Less than 500 kg

AREA 18	AREA 19	AREA 20	AREA 21	AREA 22	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27
*		13			169				
		33			11				
*	*	4			15				
		22			16				
		3			1				
		12			*				
14		2	57		609	150	51	29	132
*	*	220			744				
		450			962			1	
2	*	*	3		12	6	4	1	24
	*	90			7				
		505			1				
*		8	102		782	323	97	43	308
*	*	107			1				
		5325			1				
6	*	6	151		475	464	289	114	644
		4			1				
		14			*				
		*	*		4	2	1	*	13
		*			*				
		2			*				
		*	*		*	*	*	*	*
3	1	1030			5406				
		649			1380			1	
335	1	150	2567		22129	8506	2570	1254	7983

\*Less than 500 kg

# Facts About British Columbia's Commercial Fishing Industry, 1980

ALL FISH & FISH PRODUCTS			ALL SALMON (1)			SOCKEYE SALMON			PINK SALMON		
<b>Value of Landings</b>			<b>Landings (round weight)</b>			<b>Landings (round weight)</b>			<b>Landings (round weight)</b>		
	<b>B.C. Ports</b>	<b>Total</b>		<b>Metric</b>			<b>Metric</b>			<b>Metric</b>	
	<b>\$'000</b>	<b>\$'000</b>		<b>Tons</b>	<b>\$'000</b>		<b>Tons</b>	<b>\$'000</b>		<b>Tons</b>	<b>\$'000</b>
1971-80 Av.	148 853	151 147	1971-80 Av.	63 510	95 209	1971-80 Av.	15 005	25 899	1971-80 Av.	16 604	12 576
1978	245 358	252 192	1978	70 604	158 164	1978	22 321	55 181	1978	15 331	12 835
1979	330 019	332 468	1979	61 214	160 533	1979	14 532	43 307	1979	24 696	29 685
1980	180 529	182 281	1980	53 871	117 003	1980	7 727	18 222	1980	13 718	15 118
High (1979)	330 019	332 468	High (1951)	91 609	160 533(79)	High (1958)	33 621	55 181(78)	High (1962)	42 453	29 685(79)
			Low (1960)	35 195	18,401(60)	Low (1963)	5 386	4 002(63)	Low (1969)	6 272	1 996(54)
<b>Wholesale Value of Products</b>			<b>By Gear — 1980</b>			<b>By Gear — 1980</b>			<b>By Gear — 1980</b>		
	<b>B.C. Ports</b>	<b>Wholesale</b>	Gillnet	14 084	31 042	Gillnet	3 265	7 860	Gillnet	1 711	1 811
	<b>\$'000</b>	<b>value is</b>	Seine	24 796	41 854	Seine	4 327	10 023	Seine	9 650	9 640
1971-80 Av.	306 759	market	Troll	14 991	44 107	Troll	135	339	Troll	2 357	3 667
1978	510 667	value of									
1979	563 181	fish or fish									
1980	402 191	products.									
High (1979)	563 181										
<b>Important Species 1980 Landings</b>			<b>Wholesale Value — 1980</b>			<b>Wholesale Value — 1980</b>			<b>Wholesale Value — 1980</b>		
	<b>% of B.C.</b>	<b>\$'000</b>		<b>\$'000</b>		<b>\$'000</b>		<b>\$'000</b>		<b>\$'000</b>	
	<b>Landings</b>		Canned	146 828	Canned	62 285	Canned	54 056	Canned	54 056	
Salmon	117 003	64.1	Fresh	10 429	Fresh	530	Fresh	127	Fresh	127	
Herring	27 016	14.8	Frozen	109 299	Frozen	4 660	Frozen	4 469	Frozen	4 469	
Halibut	7 341	4.0	Smoked	4 973	Smoked	701	Smoked	3	Smoked	3	
Crab & Shrimp	5 566	3.0	Roe	13 209	Roe	48	Roe	—	Roe	—	
Sablefish	3 569	1.9	Other	4 369	Other		Other		Other		
Grey Cod	3 326	1.8	<b>TOTAL</b>	<b>289 107</b>	<b>TOTAL</b>	<b>68 224</b>	<b>TOTAL</b>	<b>58 655</b>	<b>TOTAL</b>	<b>58 655</b>	
Rockfish	3 102	1.7									
Geoducks	2 310	1.2									
Sole	2 301	1.2									
<b>Inventory of Boats 1980</b>			<b>Canned Packed (48 pound cases)</b>			<b>Canned Packed (48 pound cases)</b>			<b>Canned Packed (48 pound cases)</b>		
<b>(including Packers and Collectors)</b>											
	<b>\$'000</b>	<b>No.</b>	1971-80 Av.	1 164 244	1971-80 Av.	441 816	1971-80 Av.	455 878	1971-80 Av.	455 878	
Boats	921 925	7 551	1980	1 114 426	1980	368 844	1980	472 462	1980	472 462	
			High (1951)	1 946 082	High (1958)	1 074 305	High (1962)	1 188 661	High (1962)	1 188 661	
			Low (1975)	517 370	Low (1963)	158 375	Low (1969)	154 188	Low (1969)	154 188	
All high and low production and pack records are based on landings and pack since 1951.			(1) INCLUDES STEELHEAD								

N.B. — Landings and value figures are shown in metric tons or thousands of dollars unless otherwise indicated.

1 metric ton = 2204.6 lbs.

## Facts About British Columbia's Commercial Fishing Industry, 1980 (Continued)

COHO SALMON			CHUM SALMON			SPRING SALMON		
<b>Landings (round weight)</b>			<b>Landings (round weight)</b>			<b>Landings (round weight)</b>		
	<b>Metric Tons</b>	<b>\$'000</b>		<b>Metric Tons</b>	<b>\$'000</b>		<b>Metric Tons</b>	<b>\$'000</b>
1971-80 Av.	10 168	20 523	1971-80 Av.	14 061	17 079	1971-80 Av.	7 610	19 062
1978	9 152	27 269	1978	15 855	33 336	1978	7 887	29 461
1979	10 342	44 063	1979	4 751	12 243	1979	6 845	31 159
1980	9 025	23 078	1980	16 809	36 197	1980	6 540	24 307
High (1966)	17 627	44 063 (79)	High (1954)	33 748	36 197 (80)	High (1971)	8 702	31 159 (79)
Low (1960)	6 455	2 904 (52)	Low (1965)	3 019	824 (65)	Low (1962)	4 112	2 414 (52)
<b>By Gear — 1980</b>			<b>By Gear — 1980</b>			<b>By Gear — 1980</b>		
Gillnet	848	1 765	Gillnet	7 548	17 254	Gillnet	670	2 287
Seine	1 252	2 296	Seine	8 972	18 225	Seine	588	1 660
Troll	6 925	19 017	Troll	289	718	Troll	5 282	20 360
<b>Wholesale Value — 1980</b>			<b>Wholesale Value — 1980</b>			<b>Wholesale Value — 1980</b>		
		<b>\$'000</b>			<b>\$'000</b>			<b>\$'000</b>
Canned		11 874	Canned		17 862	Canned		709
Fresh		4 170	Fresh		693	Fresh		4 895
Frozen		26 957	Frozen		43 442	Frozen		28 505
Smoked		325	Smoked		118	Smoked		3 504
Other		319	Other		2 493	Other		814
<b>TOTAL</b>		<b>43 645</b>	<b>TOTAL</b>		<b>64 608</b>	<b>TOTAL</b>		<b>38 427</b>
<b>Canned Packed (48 pound cases)</b>			<b>Canned Packed (48 pound cases)</b>			<b>Canned Packed (48 pound cases)</b>		
1971-80 Av.		97 181	1971-80 Av.		154 695	1971-80 Av.		13 123
1980		88 217	1980		176 884	1980		5 428
High (1951)		304 540	High (1954)		580 574	High (1977)		29 569
Low (1979)		43 061	Low (1979)		33 689	Low (1969)		5 302

Note: Landings and value figures are shown in metric tons or thousands of dollars unless otherwise indicated.

PACIFIC HALIBUT			HERRING		
<b>Landings by B.C. Fishermen B.C. Ports</b>			<b>Landings Landed Wholesale</b>		
	<b>Metric Tons</b>	<b>\$'000</b>	<b>Metric Tons</b>	<b>Value \$'000</b>	<b>Value \$'000</b>
1971-80 Av.	3 963	8 533	<b>Roe</b>		
1978	2 294	10 001	1977	73 485	29 542 76 104
1979	2 410	14 004	1978	63 408	52 933 137 243
1980	2 668	7 341	1979	37 480	126 866 192 478
			1980*	16 414	26 357 36 580
<b>U.S Ports</b>			* Based on hailed landings figures and surveyed price data.		
1971-80 Av.	1 646	3 134	<b>Food</b>		
1978	1 570	6 834	1977	23 805	4 156 13 960
1979	525	2 449	1978	18 145	4 194 17 788
1980	637	1 752	1979	6 181	2 131 9 455
			1980	8 909	2 891 11 636
<b>Total Landings by U.S. &amp; Canada (Metric Tons)</b>			Landed and wholesale values include spawn on kelp.		
	<b>Canada</b>	<b>Canada</b>	<b>%</b>		
	<b>Canada</b>	<b>&amp; U.S.Canadian</b>			
1971-80 Av.	5 608	12 910	43.4		
1978	3 864	9 974	38.7		
1979	2 935	10 218	28.7		
1980	3 305	9 775	33.8		
<b>Wholesale Value of Landings by B.C. Fishermen (\$'000)</b>			<b>Crab Landings</b>		
	<b>B.C. Ports</b>	<b>B.C. &amp; U.S. Ports</b>		<b>Metric Tons</b>	<b>\$'000</b>
1971-80 Av.	11 233	14 092	1971-80 Av.	1 313	1 425
1978	12 827	19 661	1979	1 179	2 267
1979	17 692	20 141	1980	1 701	2 865
1980	9 962	11 714	High (1967)	2 405	2 865 (80)
<b>Other Groundfish Landings — 1980</b>			<b>Shrimp Landings</b>		
	<b>Metric Tons</b>	<b>\$'000</b>		<b>Metric Tons</b>	<b>\$'000</b>
Grey Cod	6 514	3 326	1971-80 Av.	1 270	1 256
Sole	4 668	2 301	1979	716	2 497
Ling Cod	1 454	1 191	1980	656	2 701
Rockfish	9 669	3 102	High (1976)	3 503	2 701 (80)
			<b>Oyster Landings</b>		
			<b>Shucked Gals.</b>		
			<b>000's</b>	<b>\$'000</b>	
			1971-80 Av.	88	879
			1979	61	893
			1980	53	1 134