

Appendices

APPENDIX A

The Commission's Terms of Reference

The following is the text of the Commission appointing Dr. Peter Pearce Commissioner under Part I of the Inquiries Act.

TO ALL TO WHOM these Presents shall come or whom the same may in anyway concern,

GREETING:

WHEREAS pursuant to the provisions of Part I of the Inquiries Act, chapter I-13 of the Revised Statutes of Canada, 1970, His Excellency the Governor General in Council, by Order in Council P.C. 1981-60 of the twelfth day of January in the year of Our Lord one thousand nine hundred and eighty-one has authorized the appointment of Our Commissioner therein and hereinafter named to examine into, report upon and make recommendations concerning the condition, management and utilization of the fisheries of the Pacific coast of Canada, excluding the arrangements between Canada and foreign nations governing fishing rights and conservation of stocks, and, without limiting the generality of the foregoing, to inquire into and report upon:

- (a) the condition of the stocks of fish within Canada's jurisdiction off the Pacific coast, current levels of utilization and their relationship to optimum rates of use;
 - (b) the provisions for conservation, management, protection and development of the fish resources, including the protection of their tidal and non-tidal habitat and the enhancement of salmonid stocks;
 - (c) the structure and size of the commercial fishing fleet and the relationship between the capacity of the fleet to harvest fish and the optimum rates of harvesting the stocks;
 - (d) the policies and procedure for licensing commercial fishing, and for regulating the size and structure of the fishing fleet, including the charges to be levied by the Crown for fishing privileges; and
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- (e) the nature and amount of non-commercial fishing in tidal waters and non-tidal waters for salmonid species, its impact on the stocks and on the commercial fishery, and the policies and procedures for regulating non-commercial fishing.

NOW KNOW YOU that, by and with the advice of Our Privy Council for Canada, We do by these Presents nominate, constitute and appoint Dr. Peter Pearse, of the City of Vancouver, in the Province of British Columbia, to be Our Commissioner to conduct such inquiry.

TO HAVE, HOLD, exercise and enjoy the said office, place and trust unto the said Peter Pearse, together with the rights, powers, privileges and emoluments unto the said office, place and trust of right as by law appertaining during Our Pleasure.

AND WE DO HEREBY require Our said Commissioner to make recommendations directed toward ensuring that the public interest is protected in the legislation, policies, procedures and practices affecting the management and use of the fish resources and in particular:

- (a) that fish resources and their use make the highest possible contribution to the economic and social development of the people of Canada, especially of those resident on the Pacific coast of Canada, recognizing that this contribution may be realized in economic, recreational and other social forms;
- (b) that granting of fishing privileges to commercial, recreational and native food fishermen is conducive to proper management and conservation, to an equitable division of the catch among sectors, and to economic efficiency in the development of the commercial fishing fleet;
- (c) that charges levied by the Crown for rights to fish commercially, or to land fish, are consistent with the value of the resources recovered, after fair and reasonable returns to commercial fishing enterprises;
- (d) that vigor of the fishing industry is maintained and advanced, and its structure, ownership and control is consistent with industrial efficiency; and
- (e) that provisions for management, enhancement and protection of the fish resources, for the administration of fisheries policy, and for consultation and communication between the Government of Canada and private groups involved in fishing activity are systematic and efficient.

AND WE DO HEREBY authorize Our said Commissioner

- 1. to adopt such procedures and methods as the Commissioner may from time to time deem expedient for the proper conduct of the inquiry;
- 2. to sit at such times and in such places in the Province of British Columbia or elsewhere in Canada as may be required;
- 3. to exercise all the powers conferred upon him by section 11 of the Inquiries Act;

4. to engage the services of such staff and technical advisers, including counsel, as he deems necessary or advisable to aid him in the conduct of the inquiry at such rates of remuneration and reimbursement as may be approved by Treasury Board;
5. to rent office space and facilities for public hearings in cooperation with the federal Department of Public Works as he may deem necessary at such rental rates as are consistent with the policies of the Department of Public Works;

AND WE DO FURTHER require Our said Commissioner to make a preliminary report to the Governor in Council not later than the first day of August, 1981, with recommendations dealing specifically with policies and procedures for regulating access to the fisheries and the development of the commercial fishing fleet, and also with the administration of licences and levies for commercial fishing privileges.

AND WE DO FURTHER require Our said Commissioner to make a final report to the Governor in Council, including such portions of the preliminary report as may be necessary, not later than the thirty-first day of December, 1981.

AND WE DO FURTHER require Our said Commissioner to file with the Dominion Archivist the papers and records of the inquiry as soon as reasonably may be after the conclusion of the inquiry.

AND WE DO FURTHER advise that Our said Commissioner be assisted by the officers and employees of the departments and agencies of the Government of Canada in any way the Commissioner may require for the conduct of the inquiry.

IN TESTIMONY WHEREOF, We have caused these Our Letters to be made Patent and the Great Seal of Canada to be hereunto affixed.

WITNESS:

Our Right Trusty and Well-beloved Edward Richard Schreyer, Chancellor and Principal Companion of Our Order of Canada, Chancellor and Commander of Our Order of Military Merit upon whom We have conferred Our Candian Forces' Decoration, Governor General and Commander-in-Chief of Canada.

AT OUR GOVERNMENT HOUSE, in Our City of Ottawa, this third day of March in the year of Our Lord one thousand nine hundred and eighty-one and in the thirtieth year of Our Reign.

BY COMMAND,

(signed)
Governor General of Canada
Deputy Registrar General
Deputy Attorney General

APPENDIX B

List of Exhibits and Participants in the Commission's Public Hearings

exhibit number	registered participant	witness	presentation	date
1.	Order in Council P.C. 1981-60		Vancouver	Mar. 2, 1982
1a	Order in Council P.C. 1982-262		Vancouver	Apr. 27, 1982
2.	The Canada Gazette, No. 6, Volume 115, Ottawa, February 7, 1981.		Vancouver	Mar. 2, 1982
3a	Copy of Notice Published in Newspapers		Vancouver	Mar. 2, 1982
3b	List of newspapers, with dates of publication			
4a	Public Hearing Procedures		Vancouver	Mar. 2, 1982
4b	Procedures for the Public Hearings, revised May 29/81			
Initial Appearances				
5.	G. Cadorin	G. Cadorin	Nanaimo	Apr. 8, 1981
6.	Ganges Fishermen's Association	R. Coulter	Nanaimo	Apr. 8, 1981
7.	R. Larson	R. Larson	Nanaimo	Apr. 8, 1981
8.	Nanaimo and District Fish and Game Protective Association	W.R. Harling	Nanaimo	Apr. 8, 1981
9.	J.G. Sanderson	J.G. Sanderson	Nanaimo	Apr. 8, 1981
10.	Concerned Fisherman's Committee of the Sunshine Coast	K.H. Griffith	Nanaimo	Apr. 8, 1981
11.	Nanaimo Indian Band	J. Brown O. Thomas E. Light	Nanaimo	Apr. 8, 1981
12.	R. Arnet	R. Arnet	Port Alberni	Apr. 10, 1981
13.	Regional District of Alberni-Clayoquot	A.E. Kilpatrick P. Barr R. Burley P. Garcia	Port Alberni	Apr. 10, 1981
14.	Ucluelet-Port Albion Chamber of Commerce	R. Davison	Port Alberni	Apr. 10, 1981

exhibit number	registered participant	witness	presentation	date
15.	Nuu-chah-nulth Tribal Council	G. Watts A. Franks	Port Alberni	Apr. 10, 1981
16.	A. Vanderhorst	A. Vanderhorst	Port Alberni	Apr. 10, 1981
17.	A. Gallagher	A. Gallagher	Prince Rupert	Apr. 22, 1981
18.	S.R. Brinton	S.R. Brinton	Prince Rupert	Apr. 22, 1981
19.	Prince Rupert Fish Exchange	G. Lindquist	Prince Rupert	Apr. 22, 1981
20.	D.W. Ellis	D.W. Ellis	Prince Rupert	Apr. 22, 1981
21.	Northern Trollers' Association	J. Broadhead M. Hearne M. Forand	Prince Rupert	Apr. 22, 1981
22. 22a 22b	United Fishermen and Allied Workers Union, Shoreworkers Local #31	C. Wyllie B. Hale B. Thompson J. Hartney J. Thorkelson	Prince Rupert	Apr. 23, 1981
23.	Prince Rupert Fishing Vessel Owners Association	G. Haugan D. Murray	Prince Rupert	Apr. 24, 1981
24.	United Fishermen and Allied Workers Union, Local #37	M. Darnell	Prince Rupert	Apr. 24, 1981
25.	Prince Rupert Rowing and Yachting Club	O. Stuart	Prince Rupert	Apr. 24, 1981
26.	G. Logan	G. Logan	Prince Rupert	Apr. 24, 1981
27.	W. Markin	W. Markin	Vancouver	Apr. 27, 1981
28.	D. Pepper	D. Pepper	Vancouver	Apr. 27, 1981
29.	Fraser River Coalition	W. Paulik J. Vance	Vancouver	Apr. 27, 1981
30.	B.C. Wildlife Federation	B. Otway D. McDermid	Vancouver	Apr. 28, 1981
31.	A. Kaario	A. Kaario L. Iverson	Vancouver	Apr. 28, 1981
32.	Port Coquitlam and District Hunting and Fishing Club	H. Prante	Vancouver	Apr. 28, 1981
33.	D.R. Boyes	D.R. Boyes	Vancouver	Apr. 28, 1981
34.	K. Anders	K. Anders	Vancouver	Apr. 28, 1981
35.	O.B. Ogmundson	O.B. Ogmundson	Victoria	May 13, 1981
36.	Gulf Islands Independent Fishermen's Association	A.H. Reynolds	Victoria	May 13, 1981
37. 37a 37b 37c	Canadian Federation of Independent Business	B. Morrison	Victoria	May 13, 1981
38.	P.D. Hancock	P.D. Hancock	Victoria	May 13, 1981
39.	A. Merriman	A. Merriman	Victoria	May 14, 1981
40.	The Cowichan Estuary Preservation Society	B. Meagher	Victoria	May 14, 1981
41.	A.D. de Leeuw	A.D. de Leeuw	Victoria	May 14, 1981
42.	Laredo Charters Ltd.	J. Chudyk	Victoria	May 14, 1981

exhibit number	registered participant	witness	presentation	date
43.	J.K. Watson	J.K. Watson	Victoria	May 14, 1981
44.	H. and L. Doerksen	H. Doerksen	Victoria	May 15, 1981
44a		L. Doerksen		
44b		D. Doerksen		
44c				
45.	The Royal Canadian Navy Anglers Association	R.J. Rogerson	Victoria	May 15, 1981
46.	A.H. Meadows	A.H. Meadows	Victoria	May 15, 1981
47.	Amalgamated Conservation Society	S. D'Agati W. Zaccarelli R.J. Rogerson	Victoria	May 15, 1981
48.	The Steelhead Society of British Columbia	J. Counts	Terrace	May 21, 1981
48a		J. Culp		
48b		M. Whateley		
49.	Kitamaat Village Council	G. Amos T. Robinson	Terrace	May 21, 1981
50.	Skeena Protection Coalition of Terrace	E. Hamilton	Terrace	May 21, 1981
51.	D. E. Dobyns	D.E. Dobyns	Terrace	May 21, 1981
52.	Gitksan-Carrier Tribal Council	A. Joseph	Hazelton	May 23, 1981
52a		C. White		
52b		B. Patsey		
52c		R. Jones		
52d		R. Morgan T. Brown P. Grant S. Clark P. Williams G. Sebastian M. Morrell R. Overstall		
53.	Save the Bulkley	W. Metcalfe	Hazelton	May 23, 1981
53a		H. Kusselbrink P. Moss		
54.	Fraser River Gillnetters Committee	J. Anderson W. Probert P. Carlson	Delta	May 25, 1981
55.	G. Dalum	G. Dalum	Delta	May 25, 1981
56.	Original "B" Fishermen's Association	W.G. Thomson	Delta	May 25, 1981
57.	Richmond Rod and Gun Club	J.L. Hargrove	Delta	May 25, 1981
58.	The Columbian Co. Ltd.	R.D. Taylor	Delta	May 26, 1981
59.	Fish Incorporated	J. Margetis	Delta	May 26, 1981
60.	B. Alden	B. Alden W. Paulik	Delta	May 26, 1981
61.	E. and W. Burnell	E. Burnell W. Burnell	Delta	May 26, 1981
62.	F. and L. Bublé	F. Bublé L. Bublé	Delta	May 27, 1981

exhibit number	registered participant	witness	presentation	date
63. 63a	Fisheries Association of B.C.	J.N. Spitz E. Safarik Jr. E.L. Harrison B. Buchanan S. Ishigigoo	Delta	May 27, 1981
64.	Ocean Fisheries	E. Safarik	Delta	May 27, 1981
65. 65a 65b	S. Jovick	S. Jovick	Delta	May 27, 1981
66. 66a	Greenpeace Foundation of Canada	P. Moore	Delta	May 28, 1981
67. 67a 67b	D. Williams	D. Williams	Delta	May 28, 1981
68.	D. Dawson	D. Dawson	Delta	May 28, 1981
69.	T.G. Hodgson	T.G. Hodgson	Delta	May 28, 1981
70.	Pacific Gillnetters Association	S.I. Taylor D. McEachern D. Ekroth M. Forest	North Vancouver	June 3, 1981
71.	British Columbia Chamber of Commerce	O.I. Eidsvik B. McDonald	North Vancouver	June 3, 1981
72.	Council of B.C. Yacht Clubs	D. Simpson	North Vancouver	June 3, 1981
73.	Canadian Fishing Company	D. Miller	North Vancouver	June 4, 1981
74.	E. Tassonyi	E. Tassonyi	North Vancouver	June 4, 1981
75. 75a	Oweekeno Indian Band	C. Hanuse D. Smith	North Vancouver	June 4, 1981
76.	Pacific Coast Salmon Seiners Association	K. Brillon C. Doyle T. Assu	North Vancouver	June 4, 1981
77. 77a	Pacific Trollers Association	G. Bisaro D. Williams J. Garcia	North Vancouver	June 5, 1981
78.	T. Howard	T. Howard	North Vancouver	June 5, 1981
79.	E. Pinkerton	E. Pinkerton	North Vancouver	June 5, 1981
80.	The Sechelt Nation		Powell River	June 11, 1981
81.	Tidal Rush Marine Farms Ltd.	B. Hope	Powell River	June 11, 1981
82.	Powell River Anti-Pollution Association	M. Rossander F. Jenkinson J. Michael M. Conway-Brown	Powell River	June 11, 1981
83.	Campbell River, Cape Mudge, Comox/ Qualicum Branches of the Native Brotherhood of B.C. (The Letwiltouch, Komoux and Kwalikum People)	R. Naknakin H. Assu S. Assu J. Rivard G. Quoksister R. Clifton	Campbell River	June 12, 1981

exhibit number	registered participant	witness	presentation	date
84. 84a	United Fishermen and Allied Workers Union, Local #23	F. Pearson	Campbell River	June 12, 1981
85.	Gulf Trollers' Association	B. McLeod	Campbell River	June 12, 1981
86.	T. Northcott	T. Northcott	Campbell River	June 13, 1981
87.	Monenco Consultants Pacific Ltd.	D.R. Wilson	Campbell River	June 13, 1981
88. 88a 88b	B. Thornton	B. Thornton	Campbell River	June 13, 1981
89. 89a 89b	Kwakiutl District Council	E. Willie F. Willie B. Joseph B. Ambers B. Duncan	Port Hardy	June 19, 1981
90.	Kwakiutl Band	R. Wilson	Port Hardy	June 19, 1981
91.	Fisheries Council of Canada	K.M. Campbell	North Vancouver	June 23, 1981
92.	Cariboo Lumber Manufacturers' Association	J.M. Taylor B. Howard	North Vancouver	June 23, 1981
93. 93a 93b 93c 93d 93e	R. and L. Long	G.R. Long L. Long R. Bose	North Vancouver	June 23, 1981
94.	Fishing Vessel Owners' Association of British Columbia	L.M. Souza J. Brajcich J. Lenic	North Vancouver	June 24, 1981
95.	Association of British Columbia Professional Foresters	J.W. Toovey W.A. Hopewood P.W. Ackhurst	North Vancouver	June 24, 1981
96.	Association of Professional Biologists of British Columbia	G. Gaine	North Vancouver	June 24, 1981
97. 97a	Sport Fishing Institute of British Columbia	D.A. Elliott G. Kristianson R. Peterson	North Vancouver	June 25, 1981
98.	British Columbia Packers Limited	E.L. Harrison B. Buchanan D. Nelson P. Todd R. Shelley	North Vancouver	June 25, 1981
99.	L. Straight	L. Straight	North Vancouver	June 25, 1981
100. 100a 100b 100c	British Columbia Development Corporation	F. Culbert P. Breikss D. Sinclair	North Vancouver	June 26, 1981
101.	Vancouver Shell Fish and Fish Co. Ltd.	N.E. Safarik	North Vancouver	June 26, 1981
102.	Salmonid Enhancement Task Group	G. McKnight J. Sewid T. Murray R. Lotzkar	North Vancouver	June 26, 1981

exhibit number	registered participant	witness	presentation	date
103.	Progressive Conservative Caucus, Pacific and Inland Fisheries	T. Siddon, M.P. P. Carney, M.P.	North Vancouver	June 30, 1981
104.	British Columbia Forest Products Limited	W.G. Burch S. Techy B. Willington	North Vancouver	June 30, 1981
105.	C.W. Ross	C.W. Ross	North Vancouver	June 30, 1981
106. 106a	Squamish Indian Band	B. Williams D. Jacobs R. Williams	North Vancouver	June 30, 1981
107.	B.C. Wildlife Federation	H. English	Victoria	July 8, 1981
108.	C.R. White	C.R. White	Victoria	July 8, 1981
109. 109a	W.R. Perrey	W.R. Perrey	Victoria	July 8, 1981
110.	Marine Trades Association of British Columbia	B. Gibson	Victoria	July 9, 1981
111.	The Honourable Jack Davis	J. Davis	Victoria	July 9, 1981
112. 112a	A. Reder	A. Reder W.F. Dyke	Victoria	July 9, 1981
113. 113a 113b 113c	Victoria Charter Boat Association	R.C.K. Peers R. Wright J. Gilbert	Victoria	July 13, 1981
114.	Wilson and Lenfesty Ltd.	D. Breel	Victoria	July 13, 1981
115.	Tackle Manufacturers Association of Southern Vancouver Island	B.J. Scott B. Hodson T. Davis J.K. Homer J. Gaunt J. Gilbert	Victoria	July 13, 1981
116. 116a	Allied Boating Association of Canada	D. Matheson	Victoria	July 14, 1981
117.	Victoria Fish and Game Protective	A. Playfair A. McGregor J. Clements	Victoria	July 14, 1981
118.	Sidney Angler's Association	T.C. Davis	Victoria	July 14, 1981
119.	D.W. Munro, M.P.		Victoria	July 14, 1981
120.	Pacific Coast Fishing Vessel Owners' Guild	E. Wickham	Victoria	July 15, 1981
121.	A. Gallagher	A. Gallagher	Prince Rupert	July 21, 1981
122.	Bella Coola Band Council	L. Pootlass S. Schooner M. Hall D. Schooner R. Andy	Prince Rupert	July 21, 1981
123.	B. Pattinson	B. Pattinson	Prince Rupert	July 21, 1981
124.	Prince Rupert Fish Exchange	J. Rowbottom	Prince Rupert	July 22, 1981

exhibit number	registered participant	witness	presentation	date
125. 125a 125b	Masset Band Council	F. Collinson T. Greene	Prince Rupert	July 22, 1981
126.	W.A. Lenz	W.A. Lenz	Prince Rupert	July 22, 1981
127.	Nechako Neyenkut Society	L. Burgener	Prince Rupert	July 23, 1981
128.	Prince Rupert Fishermen's Co-operative Association	M. Cat A. Laing P. Greene N. Marshall D. Proctor B. Shumka	Prince Rupert	July 23, 1981
129. 129a 129b 129c 129d 129e	Nishga Tribal Council	J. Gosnell R. Robinson H. Haldane H. Doolan P. McCart M. Shaffer G. Holman H. Stevens W. McKay J. Gosnell D. Rosenbloom	Prince Rupert	July 24, 1981
130. 131.	The Anglican Church of Canada, The Anglican Diocese of Caledonia, The Anglican Diocese of Yukon	P. Hamel H. Haldane D. Bobs I. MacKenzie J. Spear J. Stokes F. Lewis	Prince Rupert	July 24, 1981
132.	Institute of Naval Architects of British Columbia	L. Coward D. Moore B. MacDonald	Vancouver	July 27, 1981
133.	Union of B.C. Indian Chiefs	S. Terry W. Haimila	Vancouver	July 27, 1981
134.	S. Fuller	S. Fuller	Vancouver	July 27, 1981
135.	Council of Forest Industries of British Columbia	G. Ainscough P. Gilbert J. Bonnerman M. Mosher B. Sen R. Urban	Vancouver	July 28, 1981
136.	New Democratic Party Caucus	T. Miller, M.P.	Vancouver	July 28, 1981
137.	Western Canada Wilderness Committee	P. George	Vancouver	July 28, 1981
138. 138a	United Fishermen and Allied Workers Union	J. Nichol G. Hewison W. Procopation	Vancouver	July 29, 1981
139.	Central Native Fishermen's Cooperative	A. Dixon	Vancouver	July 29, 1981
140.	D. Ferguson	D. Ferguson	Vancouver	July 30, 1981

exhibit number	registered participant	witness	presentation	date
141a	Native Brotherhood of British Columbia Volume I	E. Newman R. Naknakin	Vancouver	July 30, 1981
141b	Volume II	J. Rivard D. Pepper T. Knowles B. Clifton V. Kramner C. Atleo G. Joseph		
142.	Heiltsuk Tribal Council	E. Newman A. Dixon C. Martin D. Halsted	Vancouver	July 30, 1981
143. 143a	Department of Fisheries and Oceans (Licensing Brief)	C.W. Shinnars A. Gibson P. Murray W. Grider D. Reid D. Carson	Vancouver	July 31, 1981
144.	B.C. Wildlife Federation	B. Otway D. McDermid	Vancouver	Dec. 14, 1981
145.	The Truck Loggers' Association	D. Hanuse N. Jacobsen	Vancouver	Dec. 14, 1981
146.	MacMillan Bloedel Limited	G. Ainscough D. Handley W. Pollard	Vancouver	Dec. 15, 1981
147. 147a 147b 147c 147d 147e	Richmond Anti-Pollution Association	S. Bourque	Vancouver	Dec. 15, 1981
148.	North-Pacific International Chapter of the American Fisheries Society	R. Peterson C. Chestnut	Vancouver	Dec. 15, 1981
149.	H. Burrow	H. Burrow	Victoria	Dec. 18, 1981
150.	B.M. Rowe	B.M. Rowe	Victoria	Dec. 18, 1981
151.	N.D.P. National Caucus	J. Fulton, M.P.	Vancouver	Dec. 22, 1981
152.	Aluminum Company of Canada, Ltd.	W.J. Rich	Vancouver	Dec. 22, 1981
153.	Council for Yukon Indians	J. Jack D. Grady	Whitehorse	Jan. 13, 1982
154.	Government of Yukon	Hon. D. Lang	Whitehorse	Jan. 13, 1982
154a	Commission Exhibit		Whitehorse	Jan. 13, 1982
155.	Yukon Conservation Society	T. Munson	Whitehorse	Jan. 13, 1982
156. 156a	Nimpkish Indian Band	B. Cramner M. Jackson M. Weinstein C. Sturmanis R. Kellerhals J. Heckman C. Cook R. Cramner G. Alfred	Vancouver	Jan. 15, 1982

exhibit number	registered participant	witness	presentation	date
ISSUE HEARINGS				
Habitat Management				
157.	Department of Fisheries and Oceans	C.W. Shinnars F.C. Boyd H.D. Smith I. Birtwell	Vancouver	Feb. 8, 1982
158.	Pacific Trollers Association	G. Dalum	Vancouver	Feb. 9, 1982
159.	Council of Forest Industries of British Columbia	G. Ainscough M. Mosher B. Sen R. Willington C. Wilson P. Gilbert	Vancouver	Feb. 9, 1982
160. 160a	Nuu-chah-nulth Tribal Council	P. George J. Woodward	Vancouver	Feb. 9, 1982
161.	United Fishermen and Allied Workers Union, Local #27, Bella Coola	B. Lande	Vancouver	Feb. 9, 1982
Salmonid Enhancement and Aquaculture				
162.	Department of Fisheries and Oceans	W. Falkner A. Lill K. Sandercock D. Deans R. Morley D. Inell	Vancouver	Mar. 2, 1982
163.	British Columbia Development Corporation	F. Culbert S. Sydneysmith D. Sinclair	Vancouver	Mar. 3, 1982
164.	Tidal Rush Marine Farms Ltd	B. Hope	Vancouver	Mar. 3, 1982
165.	Powell River Anti-Pollution Association Salmonid Enhancement Committee	D. Lawson M. Rossander	Vancouver	Mar. 3, 1982
166.	Pacific Trollers Association	P. Koreski R. Fowler	Vancouver	Mar. 3, 1982
Indian Fisheries				
167.	Department of Fisheries and Oceans	R. McLeod C.W. Shinnars F.E.A. Wood F.J. Fraser D. Brock D. Deans	Vancouver	Mar. 8, 1982
168.	Union of B.C. Indian Chiefs (Sto:lo Nation)	M. Point S. Douglas R. John M.L. Andrews	Vancouver	Mar. 9, 1982
169.	B.C. Wildlife Federation	D. McDermid	Vancouver	Mar. 9, 1982
170.	West Coast Abalone Harvesters Association	R. Harrington	Vancouver	Mar. 9, 1982
171.	Pacific Trollers Association	G. Dalum	Vancouver	Mar. 9, 1982

exhibit number	registered participant	witness	presentation	date
Recreational Fisheries				
172.	Department of Fisheries and Oceans	C.W. Shinnors D. Brock B. Masse N. Lemmen D. Schutz	Victoria	Mar. 17, 1982
173. 173a	B.C. Wildlife Federation	H. English D. McDermid	Victoria	Mar. 19, 1982
174.	Amalgamated Conservation Society	W. Zaccarelli S. D'Agati	Victoria	Mar. 19, 1982
175.	Victoria Charter Boat Association	R.C.K. Peers R. Wright J. Gilbert	Victoria	Mar. 19, 1982
176.	The Royal Canadian Navy Anglers Association	R. Rogerson	Victoria	Mar. 22, 1982
177.	Victoria Fish & Game Protective Association	A. Playfair A. McGregor	Victoria	Mar. 22, 1982
178.	Pacific Trollers Association	G. Dalum	Victoria	Mar. 22, 1982
179.	A. Reder	A. Reder	Victoria	Mar. 22, 1982
180.	Sport Fishing Institute of British Columbia	D.A. Elliott C. Smith	Victoria	Mar. 23, 1982
181.	Sidney Angler's Association	T.C. Davis	Victoria	Mar. 23, 1982
Research				
182.	Department of Fisheries and Oceans	C.W. Shinnors R. Beamish H. Tsuyuki F.E.A. Wood J. Stockner D. Schutz	Nanaimo	Mar. 30, 1982
183.	D. Pepper	D. Pepper	Nanaimo	Mar. 30, 1982
Licensing, Inspection and Product Regulation				
184.	Department of Fisheries and Oceans	C.W. Shinnors D. Wilson C. Campbell A. Gibson D. Carson	Vancouver	Apr. 5, 1982
185. 185a 185b	D. Dawson	D. Dawson	Vancouver	Apr. 5, 1982
186.	Fisheries Association of B.C.	J. Spitz E. Safarik Jr.	Vancouver	Apr. 6, 1982
187.	The Masset Crabbers	B. Wylie	Vancouver	Apr. 6, 1982
188.	D.W. Ellis	D.W. Ellis R. Arnet	Vancouver	Apr. 7, 1982
189.	T. Hodgson	T. Hodgson	Vancouver	Apr. 7, 1982

exhibit number	registered participant	witness	presentation	date
Enforcement				
190.	Department of Fisheries and Oceans	D. Wilson A. Gibson F. Fraser D. Brock	Vancouver	Apr. 20, 1982
191. 191a	Fraser River Coalition	W. Paulik J. Vance	Vancouver	Apr. 21, 1982
192.	United Fishermen and Allied Workers Union, Local #23	L. Iverson	Vancouver	Apr. 21, 1982
Administration and Consultative Arrangements				
193. 193a	Department of Fisheries and Oceans	D.D. Tansley C.W. Shinnars W. Falkner	Vancouver	Apr. 27, 1982
194.	Pacific Coast Fishing Vessel Owners' Guild	E. Wickham	Vancouver	Apr. 28, 1982
195.	West Coast Abalone Harvesters Association	E. Wickham R. Harrington J. McGuire	Vancouver	Apr. 28, 1982
196.	John Margetis Fish Incorporated	J. Margetis	Vancouver	Apr. 28, 1982
197.	D. Pepper	D. Pepper	Vancouver	Apr. 29, 1982
198. 198a 198b	Native Brotherhood of British Columbia	E. Newman J. Rivard B. Clifton W. McKay R. Duncan	Vancouver	Apr. 29, 1982
199.	1982 British Columbia Tidal Waters Sport Fishing Guide		Vancouver	Apr. 29, 1982
200.	Conflict and Opportunity: Toward a New Policy For Canada's Pacific Fisheries. Preliminary Report Of The Commission, November, 1981.		Vancouver	Apr. 29, 1982

Communities in which informal meetings were held:

Location	Date	Location	Date
Masset	March 27, 1981	Ahousaht	May 11, 1981
Queen Charlotte City	March 28, 1981	Kispiox (Hazelton)	May 22, 1981
Lillooet	April 4, 1981	Sechelt	June 10, 1981
Alert Bay	April 14, 1981	Stuart Island	June 15, 1981
Bella Coola	May 6, 1981	Pedder Bay	July 10, 1981
Oweekeno	May 6, 1981	Lytton	July 17, 1981
Bella Bella	May 7, 1981	Whitehorse	January 12, 1982
Ucluelet	May 9, 1981	Prince Rupert	February 1, 1982

APPENDIX C

List of Supplementary Documents Supplied to the Commission Outside of the Formal Public Hearing Process

number	submitted by	from	date
S - 01	T. Burns	Victoria	—
S - 02	The Corporation of The Village of Hazelton	Hazelton	May, 1981
S - 03	R. Burley, Mayor	Ucluelet	May 9, 1981
S - 04	Duncan-Cowichan Chamber of Commerce (Economic Development Committee)	Duncan	a) May 13, 1981 b) Nov. 24, 1981
S - 05	D. Aberley	Hazelton	May 22, 1981
S - 06	Kitwancool	Kitwanga	May 22, 1981
S - 07	B.L. Howe	Prince Rupert	June 19, 1981
S - 08	Lytton Indian Band	Lytton	July, 1981
S - 09	Regional District of Kitimat-Stikine	Terrace	July, 1981
S - 10	Nicola Valley Area Council	Merritt	a) July, 1981 b) Aug., 1981
S - 11	British Columbia Packers Limited	Vancouver	Aug. 18, 1981
S - 12	Pacific Salmon Society	Vancouver	Sep. 14, 1981
S - 13	J. Culp	Terrace	Sep. 22, 1981
S - 14	Salmonid Enhancement Task Group	Vancouver	Sep. 23, 1981
S - 15	Squamish Indian Band Council	North Vancouver	Oct. 9, 1981
S - 16	E. Neish	Victoria	Oct. 31, 1981
S - 17	D.E. Dobyns	Brentwood Bay	a) Nov. 30, 1981 b) Dec. 30, 1981
S - 18	Vancouver Shell Fish & Fish Co. Ltd.	Vancouver	Dec. 9, 1981
S - 19	H.G. Doerksen and Family	Victoria	Dec. 15, 1981
S - 20	C.F.V. Sales Ltd.	Delta	Dec. 18, 1981
S - 21	J. Manly, M.P.	Ottawa	Dec. 18, 1981
S - 23	British Columbia Forest Products Limited	Vancouver	Dec. 31, 1981
S - 24	W.R. Perrey	Vancouver	Jan. 5, 1982

number	submitted by	from	date
S - 25	The Regional Aquaculture Association	Nanaimo	a) Jan. 6, 1982 b) Jan. 6, 1982
S - 26	Yukon Fish & Game Association	Whitehorse	Jan. 8, 1982
S - 27	S. Zablosky	Delta	Feb. 2, 1982
S - 28	Associated Chambers of Commerce of Vancouver Island	Nanaimo	Feb. 2, 1982
S - 29	Co-Operative Fishermen's Guild	Prince Rupert	May 15, 1981
S - 30	South Island District Council	Brentwood Bay	Jan. 18, 1982
S - 31	United Native Nations, Prince Rupert Local #115	Prince Rupert	Jan. 25, 1982
S - 32	Lett Marine Consultants Ltd.	Halifax, N.S.	Jan. 26, 1982
S - 33	Yukon Fishing Safaris	Whitehorse, Y.T.	Feb. 3, 1982
S - 34	British Columbia Packers Limited	Vancouver	Aug. 18, 1981
S - 35	Mr. and Mrs. J. Caddy	Port Alberni	May 28, 1981
S - 36	Deep Sea Trawlers Association of B.C.	Surrey	Jan. 14, 1982
S - 37	Pacific Trollers Association	Vancouver	Jan. 28, 1982
S - 38	Pacific Trollers Association	Vancouver	Jan. 28, 1982
S - 39	J.K. Watson	Victoria	Mar., 1982
S - 40	MacMillan Bloedel Limited	Vancouver	Mar. 23, 1982
S - 41	E. McGuire	Port Coquitlam	Mar. 25, 1982
S - 42	Salmonid Enhancement Task Group	Vancouver	Apr. 22, 1982
S - 43	Kwakiutl District Council	—	Apr. 26, 1982
S - 44	Nuu-chah-nulth Fishermen's Association	Port Alberni	Mar. 26, 1982

**Research Documents Prepared for the
Commission on Pacific Fisheries Policy**

- R - 1 Blake A. Campbell, "Volume and Value of Landings of Fish Reported By British Columbia Commercial Fishermen 1961 - 1980." 1981.
- R - 2 Will McKay Consultants, "The Indian Fishermen's Emergency Assistance Program." 1981.
- R - 3 Environmental and Social Systems Analysts Ltd., "An Assessment of Stocks and Management Problems of the Commercial Fisheries of Canada's Pacific Coast." 1982.
- R - 4 Richard Schwindt, "Industrial Organization of the Pacific Fisheries." 1982.

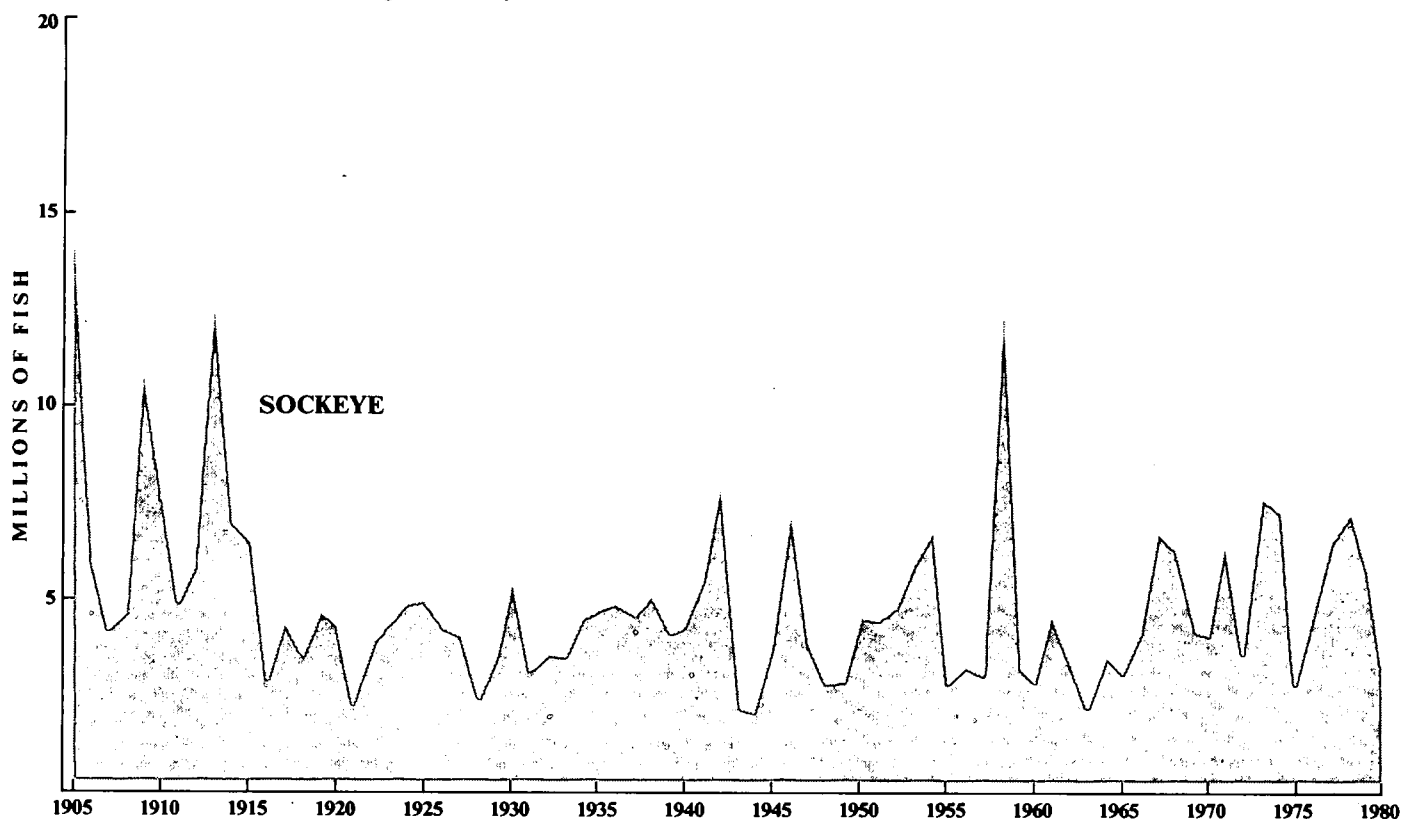
APPENDIX D

Current and Optimum Catch and Escapement Estimates For Salmon

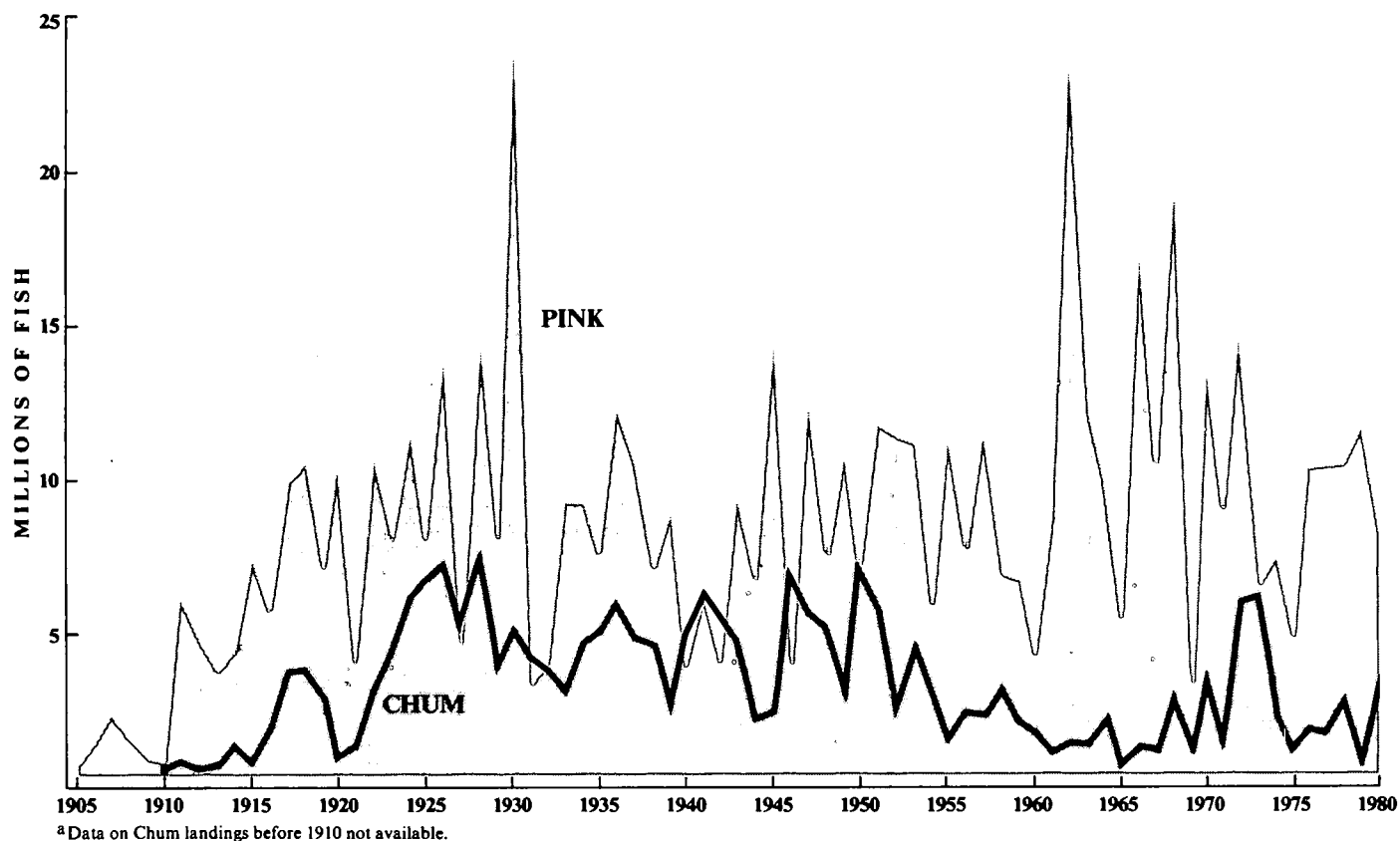
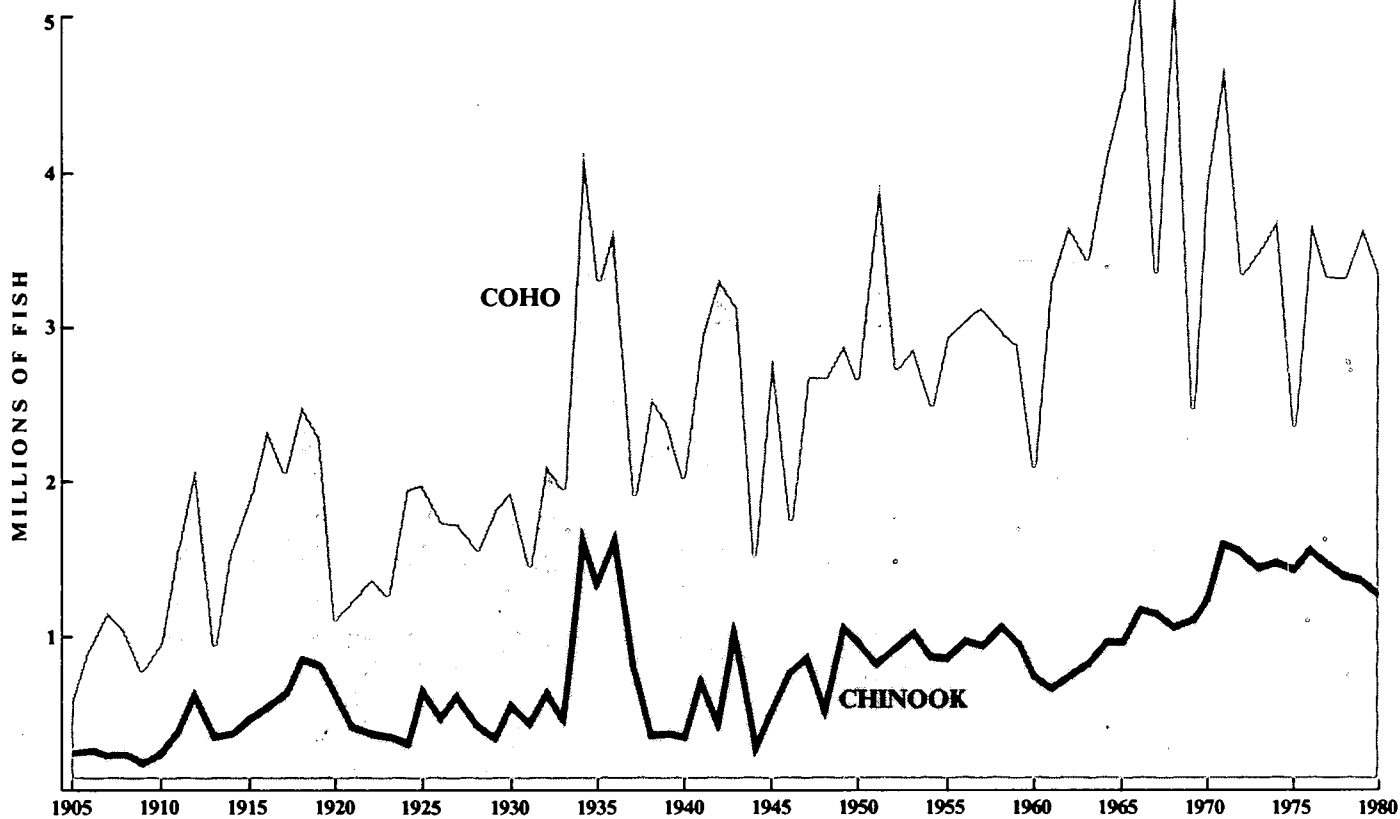
Estimates of total production from Canadian salmon stocks should account for commercial harvests by domestic and foreign fishermen, catches in the sport and Indian fisheries, and escapements. Complete data on these components of production have only recently begun to become available, and are not equally reliable, so are inadequate for measuring long-term trends in stocks. We

can, however, draw some inferences from the records of commercial landings. Figures D-1, D-2 and D-3 show the commercial landings of sockeye, chum, pink, coho and chinook salmon, since 1905. The trends in these figures provide some perspective for the following commentary and data on the condition of the stocks of each species.

Figure D-1 Commercial landings of sockeye salmon since 1905



Source: See Footnote 1.

Figure D-2 Commercial landings of chum and pink salmon since 1905^a**Figure D-3** Commercial landings of coho and chinook salmon since 1905

The findings on the status of fish stocks presented in the accompanying tables are in large part a result of investigations sponsored by the Commission and conducted by a team of biologists at the University of British Columbia, who were asked to make an independent assessment of the data relating to existing natural stock conditions, trends and yield capabilities.² They have

assembled the available historical data on total catches, escapements and other variables and, with the cooperation of biologists from the Department of Fisheries and Oceans, have analyzed them to infer as much as possible about fish populations and their potentials. It should be noted that the catch and escapement estimates in these tables relate only to stocks originating in Canadian rivers.

Sockeye

Table D-1 Current and optimum catch and escapement of sockeye salmon originating in Canadian rivers estimated by major production area

area	catch			escapement		
	current	optimum		current	optimum	
		estimate	(range) ^a		estimate	(range) ^b
			(thousands of fish)			
Nass River	317	350	(240 - 360)	195	181	(120 - 360)
Skeena River	834	800	(750 - 1,000)	820	868	(600 - 1,500)
Central coast	280	283	(220 - 350)	100	200	(100 - 400)
Rivers/Smith Inlets	480	1,200	(1,000 - 1,500)	390	500	(400 - 2,000)
Johnstone Strait	44	unknown	unknown	unknown	unknown	unknown
Fraser River	4,460	8,000	(7,000 - 11,000)	1,370	4,000	(2,000 - 8,000)
S.W. Vancouver Island	600	500	(150 - 1,000)	260	300	(100 - 1,000)
total:	7,015	11,133 +	(9,360 + - 15,210 +)	3,135 +	6,049 +	(3,320 + - 13,260 +)

^a Because of uncertainties regarding early escapement counts, stocks being exploited in mixed-stock fisheries and difficulties in treating substocks separately, the estimated ranges are quite wide.

^b The wide range in the estimates of optimum escapement reflect the imprecise knowledge about spawner-recruitment relationships in the stocks and uncertainty about the optimum rates of exploitation.

Table D-1 shows that the optimum average annual sockeye catch is slightly in excess of 11 million fish, substantially more than the 7 million now taken. The current and optimum escapement estimates indicate that in order to achieve the optimum catch of over 11 million sockeye, the annual escapement will have to be almost doubled from present levels of 3.1 million to slightly over 6.0 million.

In most areas the current and optimum catches are not

badly out of balance, but there are two significant exceptions: Rivers-Smith Inlets and Fraser River. In these two areas, estimates indicate that catches could be increased from current levels of about 4.9 million fish to approximately 9.2 million fish, a potential increase of 4.3 million fish, representing some 60 percent of the current average annual sockeye harvests. These estimates are generally consistent with those of a recent independent study of Fraser River sockeye production and potential.³

Chum

Table D-2 Current and optimum catch and escapement of chum salmon originating in Canadian rivers estimated by major production area

area	catch			escapement		
	current	optimum		current	optimum	
		estimate	(range) ^a		estimate	(range) ^b
			(thousands of fish)			
Queen Charlotte, North	8	unknown	unknown	78	unknown	unknown
Queen Charlotte, South	85	200	(100 - 300)	155	600	(206 - 1,000)
Nass River	112	unknown	unknown	53	unknown	unknown
Central coast	470	808	(400 - 800)	380	684	(400 - 1,000)
Johnstone Strait	94	250	(150 - 250)	242	210	(150 - 350)
Strait of Georgia	246	488	(200 - 500)	472	415	(300 - 500)
Fraser River	341	1,200	(600 - 2,000)	435	1,000	(600 - 3,000)
S.W. Vancouver Island	58	217	(150 - 300)	471	372	(300 - 500)
N.W. Vancouver Island	48	100	(80 - 120)	117	150	(100 - 200)
total:	1,462	3,263 +	(1,680 + - 4,270 +)	2,403	3,431 +	(2,056 + - 6,550 +)

^a The wide range in estimates reflects uncertainties about the optimum escapements, poor escapement data and anticipated difficulties in establishing terminal fisheries that could effectively harvest surpluses.

^b The wide range in the estimates, particularly in the Fraser system, reflects uncertainty about optimum exploitation rates and the spawner-recruitment relationships.

Table D-2 shows that the optimum average annual chum catch is in excess of 3.2 million fish, over twice the present catch of approximately 1.5 million. For all areas, the estimated optimum catch is substantially greater than what is being taken now, with almost half of the potential for increased production lying in the Fraser River system.

Those areas in which the potential for increased chum catches are shown to be greatest also require substantial

increases in spawning escapement. Coastwide, escapements need to be increased from the present 2.4 million to more than 3.4 million. Increasing Fraser River escapements to more than double the present levels (1 million as opposed to 435 thousand) could yield a more than three-fold increase in catch. Substantial scope for increased escapement in the Queen Charlotte south and Central coast areas is also indicated.

Pink

Table D-3 Current and optimum catch and escapement of pink salmon originating in Canadian rivers estimated by major production area

area	catch			escapement		
	current	optimum		current	optimum	
		estimate	(range) ^a		estimate	(range) ^b
Nass River (odd)	844	unknown	unknown	130	unknown	unknown
(even)	1,440	unknown	(600 - ?)	278	unknown	(200 - ?)
Skeena River (odd)	854	1,220	(1,000 - ?)	1,120	701	(500 - 900)
(even)	294	1,140	(1,000 - ?)	700	600	(500 - 1,000)
Central coast (odd)	1,340	3,650	(2,500 - ?)	1,020	3,280	(2,000 - ?)
(even)	4,310	10,100	(8,000 - ?)	3,300	5,160	(3,000 - ?)
Johnstone Strait (odd)	790	800	(1,000 - ?)	600	600	(400 - 1,000)
(even)	2,620	unknown	(1,000 - ?)	1,350	unknown	(1,000 - ?)
Strait of Georgia (odd)	190	665	(350 - 2,000)	86	362	(250 - 2,000)
Fraser River (odd)	7,000	4,000	(3,500 - 8,000)	2,440	2,000	(1,500 - 6,000)
Queen Charlotte, North (even)	41	1,000	(900 - 2,000)	251	750	(600 - 2,500)
Queen Charlotte, South (even)	1,065	1,020	(500 - 1,100)	692	576	(400 - 1,000)
Rivers/Smith Inlet (even)	468	1,120	(600 - ?)	193	155	(100 - ?)
S.W. Vancouver Island (even)	43	unknown	(35 - ?)	7	unknown	(25 - ?)
N.W. Vancouver Island (even)	128	unknown	(200 - ?)	131	unknown	(150 - ?)
total: odd years	11,018	11,179 +		5,396	6,943 + (?)	
even years	10,409	18,611 +		6,902	7,241 + (?)	

^a The ranges reflect uncertainty about optimum exploitation rates and a lack of knowledge about the spawner-recruitment relationship.

^b The ranges reflect both uncertainty over escapement, problems with interception in other fisheries and perceived difficulties in effectively harvesting the available surplus from each substock.

Table D-3 shows that the current pink catches average between 10 million in even years and 11 million in odd years. Optimum catches were not estimated for all production areas, primarily because of extreme uncertainty in optimal escapement estimates. But, to obtain a rough perspective on the overall potential pink catches for those areas where an optimum catch is not estimated, the optimum has been assumed to be equal to the current. With this assumption, the potential is some 18.6 million fish for even years and 11.2 million for odd. Some opportunities for substantial catch increases have been identified, particularly in the central coast and Johnstone Strait areas.

The data on optimum escapement indicate that the lower range of the estimate for the Skeena River is below the current levels, which implies that exploitation rates are also presently below the optimum. Increased escapements are indicated as optimal on the central coast in keeping with the indication of significant potential harvests for that area. In other areas the current and optimum estimated escapement figures are not badly out of balance, particularly in view of the wide ranges in the optimum estimates.

Coho**Table D-4** Current and optimum catch and escapement of coho salmon originating in Canadian rivers estimated by major production area

area	catch			escapement		
	current	optimum		current	optimum	
		estimate	(range) (thousands of fish)		estimate	(range) ^a
Queen Charlotte, North	74	140	(120 - 240)	70	35	(15 - 75)
Queen Charlotte, South	52	100	(50 - 110)	48	80	(50 - 140)
Nass River	61	120	(70 - 140)	26	30	(10 - 60)
Skeena River	96	130	(120 - 180)	35	54	(10 - 120)
Central coast	337	670	(550 - 800)	127	135	(80 - 240)
Rivers/Smith Inlets	94	180	(120 - ?)	5	10	(4 - ?)
Johnstone Strait	530	580	(250 - 700)	52	100	(40 - 180)
Strait of Georgia	630	567	(400 - 600)	155	201	(100 - 400)
Fraser River	380	406	(370 - 400)	61	54	(20 - 100)
S.W. Vancouver Island	135	150	(100 - 160)	48	100	(50 - 200)
N.W. Vancouver Island	116	125	(100 - 125)	27	35	(20 - 50)
total:	2,505	3,168	(2,250 - 3,455 +)	654	834	(399 - 1,565 +)

^a The ranges around the estimate reflect lack of knowledge about spawner-recruitment relationships and uncertainty about optimal rates of exploitation.

Table D-4 shows that current catches of 2.5 million coho annually are below the estimated optimum of 3.2 million, indicating a possible expansion in catches of 0.7 million fish. Opportunities for increases appear to be most significant in the central coast and northern areas, with the catches from the southern areas generally being close to the indicated optimum.

Comparison of current and estimated optimum escapement levels indicates that, except for the Queen Charlottes' northern area, escapement should be increased. The required increase is not dramatic in any area, although the relatively small numbers in the coho stocks may tend to mask the fact that, for some stocks, the proportionate increase is quite large.

Chinook**Table D-5** Current and optimum catch and escapement of chinook salmon originating in Canadian rivers estimated by major production area

area	catch			escapement		
	current	optimum		current	optimum	
		estimate	(range) (thousands of fish)		estimate	(range) ^a
Nass River	13	27	(20 - 26)	7	8	(6 - 10)
Skeena River	19	25	(20 - 30)	22	22	(20 - 50)
Central coast	44	56	(50 - ?)	29	30	(16 - 50)
Rivers/Smith Inlets	29	33	(25 - 30)	3	4	(3 - 8)
Johnstone Strait	64	61	(50 - 60)	17	18	(10 - 30)
Strait of Georgia	70	62	(40 - 50)	19	32	(20 - 50)
Fraser River	578	788	(700 - 1,200)	68	200	(100 - 400)
S.W. Vancouver Island	62	unknown	unknown	15	unknown	unknown
total:	879	1,052 +	(905 + - 1,396 +)	180	314 +	(175 + - 598 +)

^a The ranges are wide because of uncertainty about rates of recruitment from various levels of spawner abundance and the optimal rates of exploitation.

Table D-5 shows that current catches of chinook are estimated to be some 880 thousand annually, with the optimum not significantly greater at about 1.1 million. Compared to the other species, the size of the chinook stocks is small, and the only substantial opportunity for increase is in the Fraser River system where it is estimated that current catches of some 578 thousand could be increased to reach 788 thousand. The present Fraser stocks will not support harvests of this level, however, and they can only be achieved if the stocks are rebuilt through increased escapements. Throughout the coast

there is concern that exploitation rates may be excessive and that catches must be curtailed until management information is significantly improved and the stocks can be managed with greater certainty.

The estimates of current and optimum chinook escapements appear deceptively simple, probably because the numbers are so small by comparison with the other species. The indicated optimum spawning requirements are not far from the current levels in most areas, with the notable exceptions being the Fraser system (200 thousand versus 68 thousand) and the Strait of Georgia.

FOOTNOTES

1. For the years preceding 1920, data were obtained from Sixty-First Annual Report of the Fisheries Branch. Department of Marine and Fisheries, Ottawa, 1928. pp. 86-87. (Production is reported in packed cases; the following pieces per case are used for conversion: sockeye, chum and coho — 13 pieces per case; chinook — 7 pieces per case; pink — 20 pieces per case); for the period 1920 to 1976, from Historical Catch Statistics for Salmon of the North Pacific Ocean. International North Pacific Fisheries Commission, Bulletin No. 39, Vancouver, 1979. Table 63; for 1977 to 1980 from Annual Summary of British Columbia Catch Statistics 1980. Department of Fisheries and Oceans, Vancouver, 1981.
2. Environmental and Social Systems Analysts Ltd., An Assessment of Stocks and Management Problems of the Commercial Fisheries of Canada's Pacific Coast. Commission on Pacific Fisheries Policy, Research Document R-3, Vancouver, January 1982.
3. E. H. Vernon, Fraser River Sockeye: The Stocks and Their Enhancement. Department of Fisheries and Oceans, Vancouver, January 1982.

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