

ALASKA LEGISLATURE SPECIAL COMMITTEE / SUBJECT FILE 8672

1201 SCOMM 36: HOUSE SPEC. COMMITTEE ON FISHERIES 1983-84 138

Article XIV

IMPLEMENTATION

Each Party shall:

- (a) enact and enforce such legislation as may be necessary to implement this Treaty;
- (b) require reports from its nationals and vessels of catch, effort and related data for all stocks subject to this Treaty and make such data available to the Commission; and
- (c) exchange fisheries statistics and any other relevant information on a current and regular basis in order to facilitate the implementation of this Treaty.

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Article XV

ENTRY INTO FORCE AND TERMINATION
OF TREATY

1. This Treaty is subject to ratification. It shall enter into force upon the exchange of instruments of ratification at _____.
2. At the end of the third year after entry into force and at any time thereafter, either Party may give notice of its intention to terminate this Treaty. The Treaty shall terminate one year after notification.
3. Upon the entry into force of this Treaty, the Convention between Canada and the United States of America for the Protection, Preservation and Extension of the Sockeye Salmon Fishery in the Fraser River System, as amended, signed May 26, 1930, shall be terminated. Following the termination of the Convention, the transfer of responsibilities from the International Pacific Salmon Fisheries Commission to the Commission, the Fraser River Panel and the Government of Canada shall be as agreed by the Parties.

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Annex I

PANELS

The following panels shall be established pursuant to Article II, paragraph 18:

- (a) a Southern Panel for salmon originating in rivers , with mouths situate south of Cape Caution, except as specified in sub-paragraph (b);
- (b) a Fraser River Panel for Fraser River sockeye and pink salmon harvested in the area specified in Annex II; and
- (c) a Northern Panel for salmon originating in rivers with mouths situate between Cape Caution and Cape Suckling.

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Annex II

FRASER PANEL AREA

The area comprises the waters described in Article I of the Convention between Canada the the United States of America for the Protection, Preservation and Extension of the Sockeye Salmon Fishery in the Fraser River System, as amended, signed May 26, 1930.

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Annex III

TECHNICAL DISPUTE SETTLEMENT BOARD

1. Each Technical Dispute Settlement Board shall be composed of three members. Within 10 days of receiving a request under Article XII to refer a matter to a Board, the Chairman of the Commission shall notify the Parties. Within 20 days of this notification, each Party shall designate one member and the Parties shall jointly designate a third member, who shall be Chairman of the Board.
2. The Board shall determine its rules of procedure, but the Commission or the Parties may specify the date by which the Board shall report its findings. The Board shall provide an opportunity for each Party to present evidence and arguments, both in writing and, if requested by either Party, in oral hearing. The Board shall report its findings to the Commission, along with a statement of its reasons.
3. Decisions of a Board, including procedural rulings and findings of fact, shall be made by majority vote and shall be final and without appeal except as provided in Article XII, paragraph 3.

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4. Remuneration of the members and their expense allowances shall be determined on such basis as the Parties may agree at the time the Board is constituted. The Commission shall provide facilities for the proceedings.

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Annex IV

Chapter 1

TRANSBOUNDARY RIVERS

1. Notwithstanding Article III, paragraph 1(b), 37.5 percent of the harvest by the United States of each species of salmon originating in Canadian sections of transboundary rivers, except those with mouths situate in the Bering Sea and Arctic Ocean, shall be deemed to be of United States origin.
2. As it is not yet possible to determine with accuracy the extent of exploitation by fisheries of the two Parties and the spawning escapement requirements of salmon bound for Canadian sections of the transboundary rivers in the southeastern Alaska area, the Parties during 1983 shall form a Technical Working Group to:
 - (a) assemble available information on the migratory patterns (including consideration of recent stock separation studies based on examination of scales), extent of exploitation and spawning escapement requirements of the stocks; and
 - (b) identify potential increases in stocks that can be achieved through enhancement.

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3. The following arrangements shall apply to the United States and Canadian fisheries which harvest salmon stocks bound for the Stikine River.

(a) Sockeye Salmon

- (i) In 1983 the run of sockeye is anticipated to be 70,000 pieces. Given this expected run size, subject to agreed adjustments in the event that analysis of available data (which shall be made available for joint review) indicates that the run size differs significantly from that projected, and based on the data base available to each side:

(A) the United States shall manage its fisheries to allow approximately 55,000 sockeye to reach the Canadian section of the River; and

(B) Canada shall manage its food and commercial fisheries to allow a spawning escapement of approximately 40,000 to 47,000 sockeye.

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(ii) In 1984 the run of sockeye is anticipated to be 40,000 pieces. Given this expected run size, subject to agreed adjustments in the event that analysis of available data (which shall be made available for joint review) indicates that the run size differs significantly from that projected, and based on the data base available to each side:

(A) the United States shall manage its fisheries to allow approximately 33,500 sockeye to reach the Canadian section of the River; and

(B) Canada shall manage its food and commercial fisheries to allow a spawning escapement of approximately 28,000 sockeye.

(iii) In 1983 and 1984, taking into account the low anticipated run sizes and difficulties in achieving precise spawning escapements, the foregoing provisions may result in the Canadian share of the Stikine River sockeye harvest exceeding 35 percent of the Total Allowable Catch. It is the United States view that the allowable catch should be divided between the countries so that the United States would receive 65 percent and Canada 35 percent.

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(b) Coho Salmon

Given the prevailing rates of harvest of Stikine River coho salmon in United States troll fisheries and in net fisheries targeting on other species, it may not be possible in 1983 and 1984 for the United States to provide an upriver escapement sufficient to meet spawning requirements and a Canadian in-river harvest of 35 percent of the total expected catch. It is also expected that the 1983 and 1984 runs will be poor. In light of these circumstances the Parties shall monitor the runs in and on the approaches to the Stikine River throughout the season, with a view to providing Canada with an in-river harvest as close as possible to a 35 percent share of the total catch while, at the same time, meeting spawning requirements.

(c) Other Species

Canadian catches and United States terminal catches of chinook, pink and chum salmon bound for the Canadian section of the River will be taken as an incidental harvest in the directed fishery for sockeye.

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- 4.(a) In 1983, Canada shall limit its in-river fishery so that catches of sockeye and pink salmon originating in the Taku River do not exceed 3,000 and 5,000 pieces, respectively.
- (b) The Parties shall meet during 1983 to re-evaluate the fishery regime for the fisheries on Taku bound salmon for 1984, taking into account the report of the working group described in paragraph 2 of this Chapter. At the same time the Parties will also give consideration to improving procedures for co-operative management of the fisheries on transboundary river stocks in the southeast Alaska area, and to the question of future sharing of allowable harvests, taking into account potential enhancement opportunities.
5. Chinook and early sockeye salmon runs originating in the Alsek River are depressed and require special protection in 1983 and 1984. Fisheries for other species originating in the Alsek River shall be conducted in the same manner as in recent years.
6. Considering that stocks of salmon originating in Canadian sections of the Columbia River form only a

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small proportion of the total populations of Columbia River salmon, the arrangements for consultation and recommendation of escapement targets and approval of enhancement activities set out in Article VII are not appropriate to the Columbia system as a whole. Nevertheless, the Parties consider it important to ensure effective conservation of upriver stocks which extend into Canada and to explore the development of mutually beneficial enhancement activities. Therefore, notwithstanding Article VII, paragraphs 2, 3 and 4, during 1983 the Parties shall consult with a view to developing, for the transboundary sections of the Columbia, more practicable arrangements for consultation and setting escapement targets than those specified in Article VII, paragraphs 2 and 3. Such arrangements should seek to:

- (a) ensure effective conservation of the stocks;
- (b) facilitate future enhancement of the stocks on an agreed basis; and
- (c) avoid interference with United States management programs on the extensive salmon stocks existing in the non-transboundary tributaries and the main stem of the Columbia River.

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Annex IV

Chapter 2 Northern British Columbia-Southeastern Alaska

Boundary Area

1. Considering that the chum salmon stocks originating in streams in Portland Canal and harvested in the mixed stock and target fisheries in the Dixon Entrance, Portland Inlet and Portland Canal are depressed and require protection:
 - (a) in 1983 and 1984 neither Party shall allow target fisheries on these stocks in Portland Canal unless it is determined that a harvestable surplus exists; and
 - (b) in 1983, assessments shall be made to identify possible measures (including enhancement and regulatory programs) to restore the stocks. On the basis of such assessments, proposals shall be prepared for a long term plan to bring about such restoration.

2. (a) With respect to sockeye salmon, the United States shall:
 - (i) limit its purse seine fishery in the Noyes Island area (District 4) in a manner that will result in an annual average harvest of 160,000 sockeye salmon during the period 1983-86; and

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(ii) limit its drift gill net fishery at Tree Point (Districts 1A and 1B) in a manner that will result in an annual average harvest of 130,000 sockeye salmon during the period 1983-86.

(b) These harvest levels shall be reviewed during the negotiation of fishery regimes for 1985 and 1986.

3. Canada shall limit its fisheries for pink salmon in the sub-areas of Areas 3 and 5 that were described in the interim arrangements for 1981 and 1982 and in the area 1 troll fishery in a manner which will result in a total catch in the 1983 and 1984 pink salmon cycles of 2 million fish. Of this total, in 1983, no more than a total 650,000 pink salmon shall be taken, and of that, the area 1 troll fishery shall take no more than 125,000 pink salmon. In 1984, no more than a total 1,350,000 pink salmon shall be taken, and of that, the area 1 troll fishery shall take no more than 275,000 pink salmon. These harvest levels shall be reviewed during the negotiation of fishery regimes for 1985 and 1986.

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4. The Parties shall exchange preliminary management plans for the fisheries described above at the earliest possible date. Such exchange shall include determination of the intended pattern of the Canadian troll fishery in area 1 which will reflect the understanding of the interim arrangement for 1982 pending the development of new regulatory lines in area 1.

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Annex IV

Chapter 3

CONSERVATION MEASURES FOR CHINOOK SALMON

For the past several years, escapements for many naturally spawning chinook salmon stocks originating from the Columbia River northward to southeastern Alaska have declined and are now at levels substantially below production goals. These stocks cannot sustain recent rates of exploitation in the following fisheries: Georgia and Johnstone Straits, central and northern British Columbia, and southeastern Alaska.

The Parties agree to undertake the following actions to stabilize and rebuild depressed stocks of naturally spawning chinook salmon.

1. In 1983, the Parties will jointly develop and initiate a coordinated salmon management program designed to meet the following objectives:
 - (a) at least prevent further declines in spawning escapements from recent levels for depressed chinook salmon stocks; and

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- (b) restore the production of naturally spawning chinook salmon stocks by achieving escapement goals within a ten year period (approximately 2 cycles, beginning in 1983) which will provide the maximum sustainable harvest.

2. The chinook salmon management program will include at least:

- (a) identification of indicator stocks representative of naturally spawning populations of chinook salmon;
- (b) procedures to obtain reliable estimates of spawning escapements;
- (c) establishment of criteria to evaluate the effectiveness of conservation actions;
- (d) exchange of information necessary to analyze the effectiveness of alternative fishery regulatory measures to satisfy conservation objectives;
- (e) recommendations for research required to implement this program effectively; and

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(f) development of necessary measures for monitoring and enforcing compliance with the terms of this Treaty.

3. In 1983, the Parties shall enact regulations designed to ensure that:

(a) the combined catch by all southeastern Alaskan salmon fisheries does not exceed 263,000 chinook, and of that, the catch taken by the commercial salmon fisheries does not exceed 243,000 chinook; and

(b) the combined catch by all Canadian salmon fisheries in Georgia and Johnstone Straits and central and northern British Columbia does not exceed 868,000 chinook.

4. In 1983 and 1984, the Parties shall implement management measures for fisheries in other areas as required to ensure that chinook salmon from depressed stocks that are conserved by the imposition of harvest ceilings accrue principally to spawning escapement.

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5. Following the 1983 season and prior to the development of fishery regimes for the 1984 season, the Parties shall establish a Technical Committee, representative of the Northern and Southern Panels, to evaluate the effectiveness of management actions taken in 1983 with respect to:
 - (a) consistency of actual catches with corresponding harvest ceilings;
 - (b) the effect of the management measures described in paragraph 3; and
 - (c) the degree to which the decline in spawning escapement levels has been affected.
6. The Technical Committee shall also re-examine, and if appropriate, propose changes to the extent of reductions in exploitation required to meet the objective specified in sub-paragraph 1(a), and contained in the Report entitled Joint United States/Canada Technical Response to the Canadian Proposal for Chinook Conservation, dated November 30, 1982 (appended to this Annex). On the basis of the findings of the Technical Committee, the Parties shall adopt measures in 1984 which will result

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in reductions in catches to achieve the objective specified in paragraph 1(a). According to present agreed scientific analysis of the status of the stocks of concern contained in the Report, this would require a reduction in catches by the affected fisheries of approximately 25 percent from the 1981-82 harvest of chinook levels (paragraph 2 of the Report).

7. The Parties agree that enhancement efforts designed to increase artificial production of chinook salmon would be beneficial to the rebuilding program. Maintenance of harvest ceilings, combined with increased availability of enhancement fish, provides the opportunity to accelerate the stock rebuilding process by significantly reducing exploitation rates of naturally spawning stocks. The United States is initiating a program under section 4h of the Northwest Power Act as a national commitment to rehabilitation of Columbia River salmon stocks and is developing additional cooperative enhancement plans for southeastern Alaska. Efforts to increase chinook stocks are also under development by the States of Idaho, Oregon, Washington and Alaska, and federal agencies of the United States. Production from Canada's Salmonid Enhancement Program

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will continue to increase its contribution to the available harvest of chinook salmon in the affected fisheries.

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Annex IV

Chapter 4

FRASER RIVER SOCKEYE AND PINK SALMON

1. In order to increase the effectiveness of the management of fisheries in the Fraser Panel Area and in fisheries outside the Area which harvest Fraser River sockeye and pink salmon and to permit effective implementation of Article III, the negotiations for the 1985 and 1986 fishery regimes shall include development of:
 - (a) agreed adjustments in the limits of the Area to simplify domestic management in the two countries; and
 - (b) formulae for providing the United States with agreed harvests of Fraser River sockeye and pink salmon in the Area which take into account:
 - (i) within the context of Article III, the implications of potential increases in the production of Fraser River sockeye and pink salmon, and of benefits provided to the United States through Canadian management actions in fisheries

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for stocks other than Fraser River sockeye and pink salmon;

(ii) the need to provide flexibility in management of fisheries outside the Area which harvest Fraser River sockeye and pink salmon; and

(iii) the total harvest of Fraser River sockeye and pink salmon wherever they occur.

2. In the interim, in 1983, on the basis of IPSFC projections regarding the abundance of the returning runs (of approximately 6.5 million sockeye and approximately 21.0 million pinks), escapement requirements (including the spawning escapement and estimates of the Native Indian food catch) and normal patterns of fishing outside the Area, it is anticipated that the Total Allowable Catches of sockeye and pink salmon within the Area will be 3.5 million and 10 million, respectively.
3. In 1983, the United States shall be provided 50 percent of the Total Allowable Catches of each species within the Area less 150,000 sockeye and 300,000 pinks.

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4. In 1984, based on an expected run of 3.75 million sockeye and an Area Total Allowable Catch of approximately 1.75 million sockeye, the United States shall be provided with 50 percent of the Total Allowable Catch within the Area of sockeye less 50,000 fish.
5. The IPSFC or the Commission shall develop regulatory programs in the Area to give effect to the provisions of this Annex.

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Annex IV

Chapter 5

SOUTHERN BRITISH COLUMBIA - WASHINGTON COHO AND CHUM FISHERIES

1. Anticipated returns of some natural coho and chum salmon stocks originating in Johnstone Strait, the Strait of Georgia and the Fraser River in 1983 and 1984 are expected to be weak and therefore not likely to have a harvestable surplus. Some enhanced stocks of coho and chum originating in the above areas are anticipated to have harvestable surpluses and locally directed fisheries on these enhanced stocks are expected.
2. The Parties shall meet and develop agreed fishery regimes by April 30, 1983 for the 1983 and 1984 fishing season in response to the conservation status of the resources.
3. If at a later date it is determined that harvestable surpluses of Canadian or United States coho and chum salmon exist the Parties will consult to identify and agree on fishing opportunities.

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Exchange of Notes

I have the honor to refer to the discussions between
representatives of our two ^{1/10 MPS} Governments and to the Treaty
between the Government of the United States of America and
the Government of Canada concerning Pacific salmon (the
Treaty) and to confirm on behalf of the United States Govern-
ment the understanding set out below that has been reached
between our two Governments concerning the implementation
of ^{22 JUN MPS} ARTICLE XVII, paragraph 3 of the Treaty.

A. Prior to the first anniversary of the date of entry
into force of the Treaty:

1. The Fraser River Panel established pursuant
to the Treaty shall assume the following respon-
sibilities consistent with the Treaty:

(a) review and evaluate information provided
by the Parties, pursuant to Article IV,
paragraph 3, in order to provide recommenda-
tions to the Commission on the fishery
regime to be included in Annex IV;

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- (b) on adoption by the Parties of the fishery regime, make proposals to the Commission regarding regulations for the harvest of Fraser River sockeye and pink salmon within the Fraser Panel Area (the Area);
- (c) collect in-season information on catches within the Area; review information on escapements within the Area; collate information provided by the Parties pursuant to paragraphs D, 2 and 3 for fisheries outside the Area; conduct test fishing on Fraser River sockeye and pink salmon; and collect data on upriver escapements by observation at Hell's Gate and through the conduct of a hydroacoustic program at Mission Bridge;
- (d) make orders for the adjustment of the fisheries pursuant to Article VI, paragraph 6, on the basis of information garnered under subparagraph (c); and
- (e) provide the Commission, at the end of each fishing season, with an accounting of the catches, wherever made, of Fraser

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River sockeye and pink salmon and with an appraisal of the extent to which the Panel achieved ^{the MPS} the objectives set by the Parties.

2. Canada shall assume all responsibilities of the International Pacific Salmon Fisheries Commission (IPSFC) except for those responsibilities specified in subparagraph 1.
- B. The IPSFC will continue to discharge its responsibilities in the interval between the entry into force of the Treaty ^{the MPS} and, pursuant to paragraph A, the assumption of responsibilities by Canada and the Fraser River Panel.
- C. Prior to the fourth anniversary of the entry into force of the Treaty, the Commission shall review the division of responsibilities set out above.
- D. Canada and the United States shall provide to the Commission:
 1. the information required by Article IV, paragraph 3;

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2. information on in-season catches and estimated catches of Fraser River sockeye and pink salmon by time, area, species, and gear type;
 3. post-season statistical information regarding Fraser River sockeye and pink salmon catches by area, gear type, species and time;
 4. data on spawning escapements for all sockeye and pink stocks which migrate through the Area; and
 5. information on any problems identified in achieving national goals resulting from in-season regulation of the Area fisheries.
- E. The following administrative arrangements shall apply to the transfers of staff from IPSFC:
1. Appropriate members of the existing Fishery Management Division and of other Divisions of the IPSFC shall be transferred to the Commission so that it shall have the capability to perform the following duties:
 - (a) the discharge of the responsibilities of the Commission and of the Fraser River Panel as specified inter alia in paragraph A 1; ~~by~~ **MAS**
 - (b) interpretation of statistical and biological data and other information referred to in paragraph D;

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- (c) collection and assembly of such data as may be required by the Commission and its Panels; and
 - (d) preparation of such publications as may be decided upon by the Commission.
2. The staff shall be under the direction of the Executive Director pursuant to Article II, paragraph 16.
3. The Operations Division shall be transferred to the Department of Fisheries and Oceans (DFO), Canada, to the extent practicable, and shall continue to carry out upriver work on pink and sockeye salmon in coordination with the staff of the Fraser River Panel. While there will be some duplication of work in the spawning areas during this initial period, it is anticipated that the Operations Division will eventually be integrated into DFO's Fraser River Management and Enhancement Operations to streamline upriver operations and to avoid duplication. The close working

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relationship that now exists at the staff level between the IPSFC Fishery Management Division and Operations Division should be maintained between the Fraser River Panel staff and the appropriate DFO responsibility centers.

4. The Environment Conservation Division, Biology Division, and Engineering Division shall be transferred to DFO and integrated as practicable

5. The transfers of the Fishery Management Division and the Operations Division of the IPSFC referred to in paragraphs 1 and 2 shall occur during the period November to March. The transfer of the Environment Conservation Division, the Biology Division and the Engineering Division referred to in paragraph 3 may occur at any time within the year after the date ^{e mps. 10/11} of entry into force of the Treaty. Officials of the Parties shall consult with each other and with the IPSFC staff to seek agreement on the specific timing of these transfers, taking into account the need for continued sound management of the fishery resource and ^{mps. 10/11} ~~the~~ administrative and budget cycles of the two Governments.

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F. In order to ensure continuity in the methodology of collection of upriver data required for the management of Fraser River sockeye and pink salmon:

1. Pending the entry into force of the Treaty, DFO staff shall participate with IPSFC staff in IPSFC upriver activities.
2. In the first two years following entry into force of the Treaty former IPSFC staff members whose responsibilities included upriver work, and who become employees of DFO, shall participate in the carrying out of Canada's upriver responsibilities, as practicable. With respect to upstream spawning escapement work, the advice of the new Commission's staff shall be sought as appropriate.
3. On request of either Party, opportunities shall be provided for technical experts to observe the data collection operations of the Parties related to the activities of the Fraser River Panel.

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G. The Parties shall consult with each other and with the IPSFC staff, with a view, inter alia, to offering employment to IPSFC employees in the new Commission, the Fraser River Panel, or within government agencies of the two Parties on terms and conditions comparable, to the extent practicable, with those they enjoy in IPSFC.

H. The IPSFC library in New Westminster, B.C., which contains irreplaceable historical records, shall be transferred to the new Commission and shall be readily accessible to the new Fraser River Panel, the Commission, and others whose professional needs require use of these library facilities.

Other IPSFC assets necessary for the work of the Commission and the Fraser River Panel shall be transferred to the Commission.

The remaining assets shall be transferred to Canada.

I have the honor to propose that if the understanding set out in this Note is acceptable to the Government of Canada, this Note and your reply to that effect, shall constitute an Agreement between the Government of the United States of America and the Government of Canada regarding the implementation of the Treaty and shall enter into force

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At the end of the third year after entry into force and at any time thereafter, either Party may give notice of its intention to terminate this Agreement. The Agreement shall terminate one year after notification.

I avail myself of this opportunity to renew to you, Sir, the assurance of my highest consideration.

Subject to change by mutual agreement on receipt of views provided by IPSFC.

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LETTER OF UNDERSTANDING BETWEEN THE NEGOTIATORS
REGARDING IMPLEMENTATION OF ARTICLE III 1(b)

In submitting our recommendations to governments, the negotiators hold the view that the principal goals of the treaty are to enable both countries, through better conversation and enhancement, to increase production of salmon and to ensure that the benefits resulting from each country's efforts accrue to that country. In this regard, we believe that research on the migratory movements of stocks subject to interception must be continued for several years. Such research is required not only to determine with more precision the extent of interceptions by both sides, but also to provide an improved basis for conservation and enhancement. The negotiators believe that resultant long term increases in production of salmon will fully justify the short term expenditures on research.

With respect of the obligation to provide each Party with benefits equivalent to the production of salmon originating in its rivers (contained in Article III, paragraph 1(b) of the Draft Treaty), it must be recognized that data on the extent of interceptions in some areas are imprecise and that it is therefore not possible to determine with certainty the total production of salmon from each country's rivers. It must also be recognized that methods of evaluating benefits accruing within each country may differ. For these reasons, it is anticipated that it will be some time before the Commission can develop programs to implement the provisions of Article III, paragraph 1(b) in a complete and comprehensive manner. Nevertheless, in the short term, it is essential that the Commission ensure that the annual fishery regimes and understandings regarding enhancement be developed in an equitable manner

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taking into account the principle outlined in Article III 1(b). In particular, the Commission's decisions should take into account changes in the benefits flowing to each of the Parties through alteration in fishing patterns, conservation actions, or as the result of changes in the abundance of the runs.

In the longer term, if it is determined that one country or the other is deriving substantially greater benefits than those provided from its rivers, it would be expected that within the Commission, the Parties would develop a phased program to eliminate the inequity within a specified time period, taking into account the provisions of Article III paragraph 3. Since correction of imbalances is a national responsibility and may involve differential fishery adjustments or enhancement projects on a regional basis within either country, it would be incumbent on the Party with the advantage to submit appropriate proposals to the Commission for consideration. The plan would be discussed within the Commission and be reflected in the agreed fishery regimes and coordinated enhancement planning in ensuing years.

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EXCHANGE OF NOTES

Pending entry into force of the Treaty and the Agreement regarding the implementation of Article XVII, paragraph 3 of the Treaty, the Parties shall seek to implement the Treaty and the Agreement on a provisional basis.

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SELECTED INFORMATION AND BACKGROUND DATA ON
PROPOSED UNITED STATES/CANADA PACIFIC SALMON TREATY
WITH SPECIAL EMPHASIS ON FISHERIES OF SOUTHEAST ALASKA
AND NORTHERN BRITISH COLUMBIA

February 1983

Prepared for
Governor Sheffield's Treaty Review Task Force
by

Division of Commercial Fisheries
Alaska Department of Fish and Game
Juneau, Alaska

- NOTE -

The selected information and background data contained in this informational pamphlet have been compiled to assist Governor Sheffield's Treaty Review Task Force in evaluating the proposed United States/Canada salmon treaty. No attempt has been made in this document to assess potential benefits and costs associated with the proposed treaty. Rather it provides some general statements of principles, objectives and fishery arrangements proposed in the treaty plus some pertinent data. Persons are encouraged to carefully read the actual draft treaty, copies of which are available at ADF&G offices.

This information has been excerpted from various management agency records and numerous documents used during past negotiations. While it represents some important basic data, it should be emphasized that there is a substantial amount of additional detailed information and data relating to the fisheries dealt with in the negotiations and the proposed treaty.

Persons are cautioned that salmon catch and escapement data shown for the most recent years should be considered preliminary.

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I. Overview of Proposed United States/Canada Pacific Salmon Treaty

After some twenty years of complex negotiations, the United States and Canada have developed a draft treaty for public consideration. The draft treaty proposes a regime to manage salmon fisheries which, while operating in domestic waters, intercept stocks bound for the other country's spawning streams. Following a November negotiating session in Seattle between full U.S. and Canadian delegations at which numerous aspects of the treaty were discussed, the two Chief Negotiators, Dr. Dayton Alverson for the United States and Dr. Michael Sheppard for Canada, have finalized draft treaty language. A draft treaty has been presented to the respective governments for consideration. This starts the process of general public review, State and Federal agency review and finally consideration by the U.S. Senate and Canadian Parliament.

The draft treaty contains provisions for a U.S./Canada Commission to oversee fishing arrangements jointly developed by the two countries. Actual fishery management authority would remain with the respective State and Federal agencies. The Commission would operate under a set of agreed upon principles including priorities for resource conservation and provisions for each country to receive major benefits from salmon production in its own streams. A framework would be provided by the treaty for management, enhancement and allocation between the two countries. It is intended to provide incentive for each country to enhance its own stocks without fear of uncontrolled interceptions.

The Commission would be composed of four Commissioners from each country supported by separate panels for (1) the Fraser River, (2) Southern B.C./Washington and Oregon and (3) Northern B.C./ Southeast Alaska. The panels would be composed of representatives from government agencies and the fishing industry who would review data and advise the Commission as to whether its objectives were being met. Decisions to change elements of the initial treaty could only be made by consensus between the two countries. Within the United States, implementing legislation would specify two U.S. Commissioners from Alaska and two from the Pacific Northwest. Each country would receive one vote in the Commission and a positive action within the U.S. section would require a majority consensus.

In addition to general principles, the proposed treaty includes a series of "annexes" governing catch limits and initial conduct of a number of fisheries of joint concern. The draft treaty implies these annexes would have to be re-negotiated after the dates specified or earlier if both parties agree.

The proposed treaty contains provisions for coastwide chinook salmon management intended to reverse the declining trend in many natural stocks of this species. The treaty specifies fisheries limits in both Canadian and U.S. fisheries which are judged necessary to rebuild the stocks. Reductions would be shared in a specified fashion between the countries and savings would be passed to spawning grounds rather than simply reallocated to other fisheries. Both countries would make a strong commitment to increase hatchery production of this species to benefit both U.S. and Canadian fishermen.

Fisheries in the Dixon Entrance boundary area would generally be managed at recent harvest levels. This is intended to minimize disruption of traditional fisheries while preventing escalation of interceptions or initiation of new intercepting fisheries on either side of the border. Provisions would be made to conserve certain depressed stocks through joint management.

Canadian fisheries operating in the Canadian portion of the Taku River in 1983 would be restricted to the 1982 levels for subsistence use and relatively minor commercial and recreational harvest. Canadian fisheries on the Alsek River would be managed to limit catches to recent levels. Stikine River fisheries would be cooperatively managed to provide for a Canadian directed in-river sockeye and coho harvest. Unresolved problems in the draft language still exist with respect to the percentages specified for Canadian harvest of sockeye and coho salmon. Statements are made on conservation of depressed stocks, achievement of escapement goals and joint salmon enhancement in these drainages.

The basic treaty intent is to provide the mechanism to achieve rational management, conservation and enhancement of coastal salmon stocks. It is also intended to prevent uncontrolled interceptions of the other country's stocks and the type of "fish wars" that can develop when fleets on each side of the border operate without established principles and ground rules.

Much work remains to be done regarding language for implementing legislation and explanatory notes between the governments to assure that proposed treaty language meaning is clear between the parties.

Implementing language would accompany the treaty through the U.S. ratification process and would deal with arrangements needed to internally implement the agreement within the United States. Items to be covered include:

1. Federal funding to insure support for Commission operation; needed research and management; and enhancement projects to support treaty obligations - for example upgrade of chinook enhancement to alleviate the conservation burden of rebuilding natural stocks. Both countries have agreed that without commitment of adequate financial support the treaty will not function.

2. Operational procedures for the U.S. section of the Commission (panels and Commission members) including makeup, appointment and voting procedures.

An example of the type of explanatory note that may be required to clarify the intent of the two countries as to how the Commission will function is attached at the end of the treaty draft. Entitled "Letter of understanding between the negotiators regarding implementation of article III 1 (b)" this letter clarifies that equity is something to be structured for over time, not on a short term year by year basis, and that equity will be measured in terms of substantial imbalances not on minor accounting differences. It also spells out the negotiators support of needed research.

Following are brief descriptions of fishery arrangements proposed by the treaty for a number of Canadian and Alaskan fisheries. Some basic background data is also provided.

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II. Transboundary Rivers (Annex IV - Chapter 1)
(Stikine, Taku and Alsek Rivers)

II. Transboundary Rivers

"Transboundary" rivers are rivers which originate in one country but flow to the sea through the other country. Three such rivers originating in Canada but flowing to the sea through Southeast Alaska are dealt with specifically in the treaty. These are the Stikine, Taku and Alsek Rivers whose locations are shown in Figure 1.

Salmon spawned in and migrating to the sea through Alaskan portions of the transboundary rivers are considered to be Alaskan stocks. However, salmon stocks which spawn in Canadian portions of the rivers and migrate to the sea, rearing enroute, through Southeast Alaskan portions of the rivers and Alaskan estuaries and State waters are considered to be "shared" by the two countries. Cooperative management and harvest sharing arrangements for these stocks are included in the proposed treaty. A brief description of the proposed arrangements for each of the three rivers is provided.

Taku River

Prior to 1979 no Canadian commercial fishery existed in the Taku River drainage. Beginning in 1979 the Canadian government permitted a three year experimental fishery in the Taku River for 11-14 fishermen. During the years 1979-1981 the salmon catches by these fishermen ranged from 30,000 to 75,000 as shown in Table 1. These catches were transported to Prince Rupert via aircraft for processing. In 1982, under the terms of the 1981-1982 interim agreement, the Canadian fishery was to be held to 3,000 sockeye and 5,000 pinks. This limit was adhered to for sockeye, but the 2-4 fishermen involved in 1982 did not harvest the allowed number of pinks due to their limited markets in the Yukon Territory and transportation costs. The limits for the Canadian Taku commercial fishery in 1983 under the proposed treaty are the same as for 1982 (3,000 sockeye and 5,000 pinks). At this low level of sockeye harvest, 1983 management of the U.S. drift gillnet fishery in Taku Inlet would not be affected.

Stikine River

Although the Canadian commercial fishery on the Stikine River has been provided for by regulation since 1975 no significant

harvests occurred until 1979. A substantial food fishery that has harvested 2000-5000 salmon per season has historically been conducted in the Telegraph Creek area. During the 1979-82 period, commercial catches by 15-22 Canadian fishermen ranged from 25,000 to 35,000 fish as shown in Table 2.

Equitable resolution of the manner in which salmon originating from the Canadian portion of the Stikine River would be shared between U.S. and Canadian Fishermen proved to be a difficult issue during the negotiations. This problem is complicated by the lack of an agreed to data base to establish the numbers of these fish harvested by U.S. fishermen outside the Alaskan District 8 terminal fishery.

The treaty draft implies a 65% U.S. and 35% Canadian harvest sharing of Stikine red salmon as a U.S. goal, but this division has not been agreed to by Canada. During the expected poor red runs in 1983 and 1984, Annex IV provides for a Canadian harvest of red salmon that is expected to somewhat exceed 35% of the total harvest. The language in Annex IV would establish a working group to review available information on the Transboundary Rivers and potential enhancement opportunities. Unless an agreed to data base for management purposes can be developed, the actual catch division achieved will remain in question.

Proposed Annex IV language indicates that the Canadian fishery would be provided 35% of the coho harvest originating from the Canadian portion of the Stikine if possible given the nature of the intercepting fisheries that share in the harvest of this species. The U.S. negotiator has indicated that this wording would have to be clarified to be acceptable to both sides. The final draft will probably reflect the inability of either side to determine or control the amount of Stikine coho taken in troll fisheries. At the negotiations it was assumed that this section would probably deal only with terminal area and inriver harvests.

Regarding other salmon species, Annex IV provides that in 1983 and 1984 both countries' fisheries will not target effort on Stikine spawning run chinook salmon as these stocks are currently depressed and a rebuilding program is in progress. Pink and chum salmon runs to the Canadian portion of the Stikine River are small and the fisheries of both countries will harvest them only to the extent they are harvested while targetting on other salmon stocks. Problems exist with the current language in this section.

Alsek River

Chinook and early sockeye salmon runs originating in the Alsek river are depressed and require special protection in 1983 and 1984 to provide for rebuilding. Specific management arrangements would be developed cooperatively by the two countries. Under the proposed treaty, fisheries for stocks of other species originating in Canadian portions of the river would be conducted in the same manner as in recent years. Canadian salmon catches in the Alsek River since 1976 are shown in Table 3.

SOUTHEAST

Alaska's Panhandle



Figure 1. Location Map for Southeast Alaska Transboundary Rivers

Table 1. Canadian Commercial Salmon Harvests in the Taku River,
1978-82 and Proposed Treaty Level catches in 1983.

Year	Chinook	Sockeye	Coho	Pink	Chum	SteelHead	Total
1978	0	0	0	0	0	0	0
1979	97	13,578	6,006	13,661	15,474	254	49,070
1980	225	22,602	6,405	26,321	18,516	456	75,025
1981	154	10,922	3,612	10,621	5,495	94	30,898
1982	45	3,044	51	82	1	0	3,223
Treaty Proposal for 1983	0	3,000	0	5,000	0	0	8,000

Note: Catch data for most recent years should be considered preliminary.

Table 2. Canadian Commercial and Food Salmon Harvests in the Stikine River, 1975-82.

	Chinook	Sockeye	Coho	Pink	Chum	Total
1975	1,024	2,252	50	0	0	3,326
1976	1,160	3,644	13	0	0	4,817
1977	162	6,310	32	0	0	6,504
1978	500	5,000	0	0	0	5,500
1979 ¹	1,625	13,534	10,720	1,994	424	28,297
1980	2,231	20,919	6,769	756	771	31,446
1981	1,322	26,786	2,566	3,831	1,114	35,619
1982 ²	2,334	20,342	16,000	1,808	710	41,194

Treaty

Proposal - Dependent on run sizes (refer to Annex IV - Chapter 1).

¹Inception of major Canadian Commercial fishery

²Preliminary

Table 3. Canadian Salmon Catches in the Alsek River, 1976-82

Year	Chinook	Sockeye	Coho	Total
1976	300	4,100	100	4,500
1977	400	12,200	200	12,800
1978	500	8,200	200	8,900
1979	300	4,000	100	4,400
1980	300	1,500	200	2,000
1981	300	2,600	100	3,000
1982	300	5,500	100	5,900

Treaty Proposal: (Refer to Annex IV - Chapter 1, p.37)

Notes: (1) Catch data for most recent years should be considered preliminary.

(2) Catches of pink and chum salmon are thought to be negligible.

III. Northern British Columbia - Southeast Alaska
Boundary Areas (Annex IV - Chapter 2)

III. Northern British Columbia - Southeast Alaska Boundary Areas

In Annex IV - Chapter 2 of the treaty, catch limits and coordinated fishery management arrangements are proposed for a number of fisheries on both sides of the International Boundary in Dixon Entrance. Following are brief descriptions of the fisheries and the management arrangements. (A location map is shown in Figure 2.)

Portland Canal Chum Salmon Fisheries

Conservation problems currently exist for chum salmon stocks originating in Portland Canal and harvested by both countries in a number of mixed stock and target fisheries in Dixon Entrance, Portland Inlet and Portland Canal. Under the proposed treaty the two countries would agree not to allow target fisheries on these stocks in the Portland Canal area in 1983 and 1984 unless it is jointly agreed that harvestable surpluses exists.

In addition, in 1983 the two countries would agree to develop a cooperative long term plan of regulatory and enhancement measures to rehabilitate these chum salmon runs.

Southeast Alaska Noyes Island Sockeye Fishery

The Noyes Island purse seine fishing area consists of Southeast Alaska Regulatory District 4 on the outside coast of southern Southeastern from the entrance of Sumner Strait south to Dixon Entrance. The fishery occurs off the string of islands including Noyes, Baker, Suemez and Dall.

Sockeye and pink salmon are the two main species harvested. Pink salmon are considered to be primarily of Alaskan origin while sockeye are of mixed Canadian and Alaska origin.

Table 4 gives the catch by species by year in this fishery and Figure 3 shows the sockeye harvest. A major increase in effort in 1979 and 1980 resulted in very high harvest levels. Interim 1981 and 1982 fishing arrangements reduced the overall effort but larger than average sockeye returns again led to high harvest levels.

The proposed treaty average limitation of 160,000 sockeye per year for 1983-86 is slightly above the average catch of 154,000 since 1960 for this fishery. The limit is an average

figure to be achieved over a four year period which takes into account annual run size fluctuations.

Southeast Alaska Tree Point Sockeye Fishery

The Tree Point gillnet area is composed of two regulatory sections. Section 1-A is located north of Hattie Island in Portland Canal and extends to the northern terminus of the canal. Section 1-B includes all waters south of section 1-A in Portland and Pearce Canals and an area extending approximately three miles offshore from Foggy Point south to the International Boundary. This fishery generally targets on chum and sockeye salmon early, pink salmon in the middle and coho salmon at the end of the season. Historical catch statistics for the Tree Point gillnet fishery are shown in Table 5 and Figure 4 shows the sockeye harvest.

The "Tree Point" gillnet fishery was initiated in Portland Canal in 1957, expanded outward from the Canal in 1960 and by 1963 had been extended approximately to the current boundaries. The average sockeye salmon catch in this fishery since 1960 is about 90,000 fish. Management for Alaska stock concerns has limited the sockeye salmon catch in this fishery in recent years (1976-82) to an average level of 136,000. This is close to the 130,000 limit proposed for 1983-86 in the treaty draft. The treaty limit is an average level to be achieved over a four year period to allow for annual run size fluctuations.

Canadian Pink Salmon Fisheries in Areas 3X, 3Y, 3Z-Delta and 5-1 For All Gear and Area 1 Troll Gear

These Canadian fisheries occur in Dixon Entrance. The net fisheries are restricted generally to the inner portion of the entrance.

Catches of pink salmon were generally low in the early 1970's when Alaskan runs were at an all time low. They increased in the late 1970's with a peak annual net catch of 1.9 million in 1978 (Figure 5 and Table 6). In 1980 the Canadian fleet initiated a major new troll effort off Capes Chacon and Muzon that took a reported 722,000 pink salmon (Figure 6). This fishery was limited in 1981 and 1982 by mutual agreement. Potential Canadian harvest by all gear types based on recent experience exceeds 2,000,000 pink salmon per year and could approach 3,000,000 pink salmon on years of high Southeastern runs.

The proposed treaty limitation is for an all gear catch of 650,000 in 1983 and 1,350,000 pink salmon in 1984. In addition maximum ceilings of 125,000 for 1983 and 275,000 for 1984 are proposed for the Canadian troll harvest in Area 1.

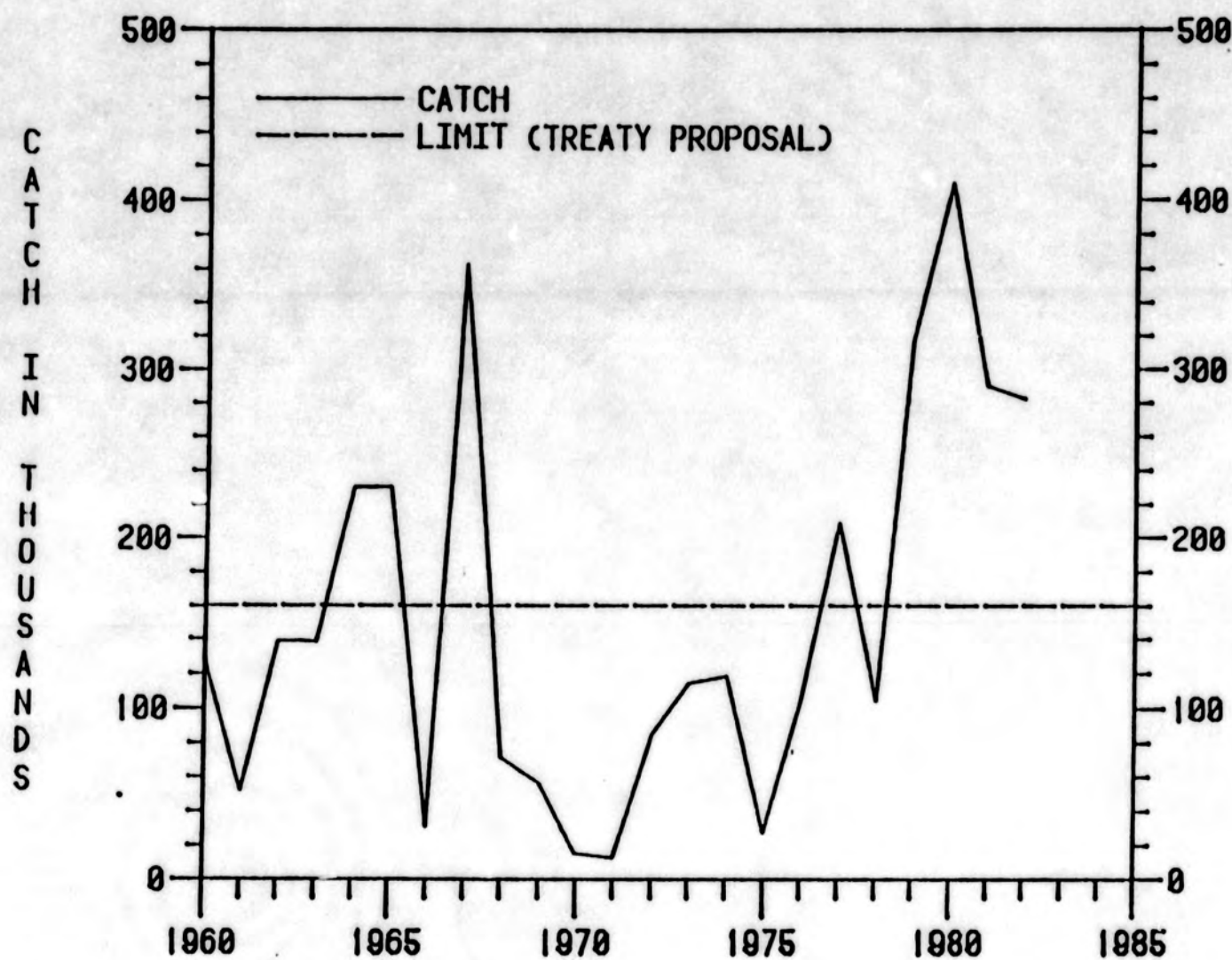


FIGURE 3. SOUTHEAST ALASKA NOYES IS. (DIST. 4) PURSE SEINE FISHERY
SCKEYE SALMON CATCHES, 1960-82 (ADF&G 1/83)

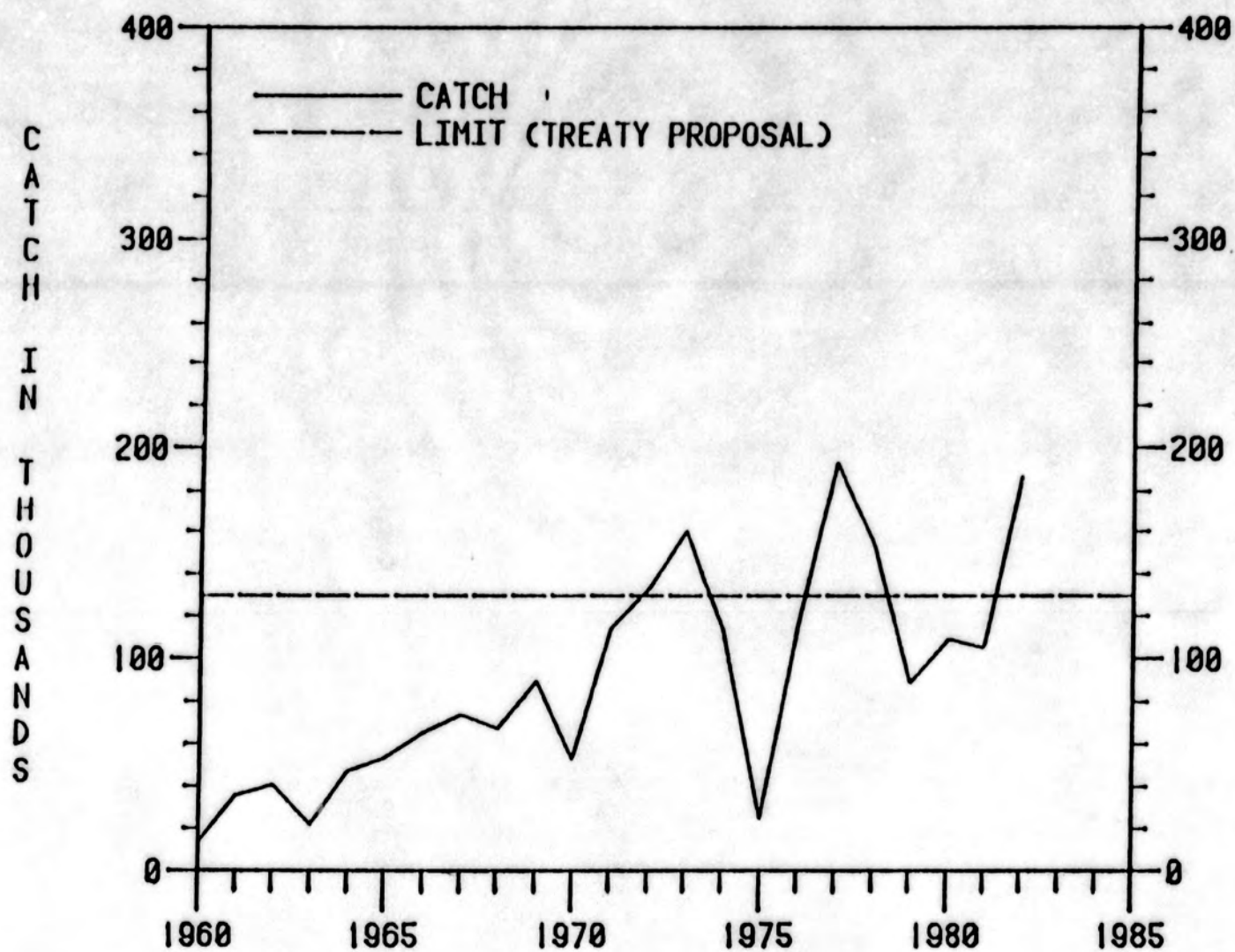


FIGURE 4. SOUTHEAST ALASKA TREE POINT (DIST. 1-A, 1-B) GILLNET FISHERY SOCKEYE SALMON CATCHES, 1960-82 (ADF&G 1/83)

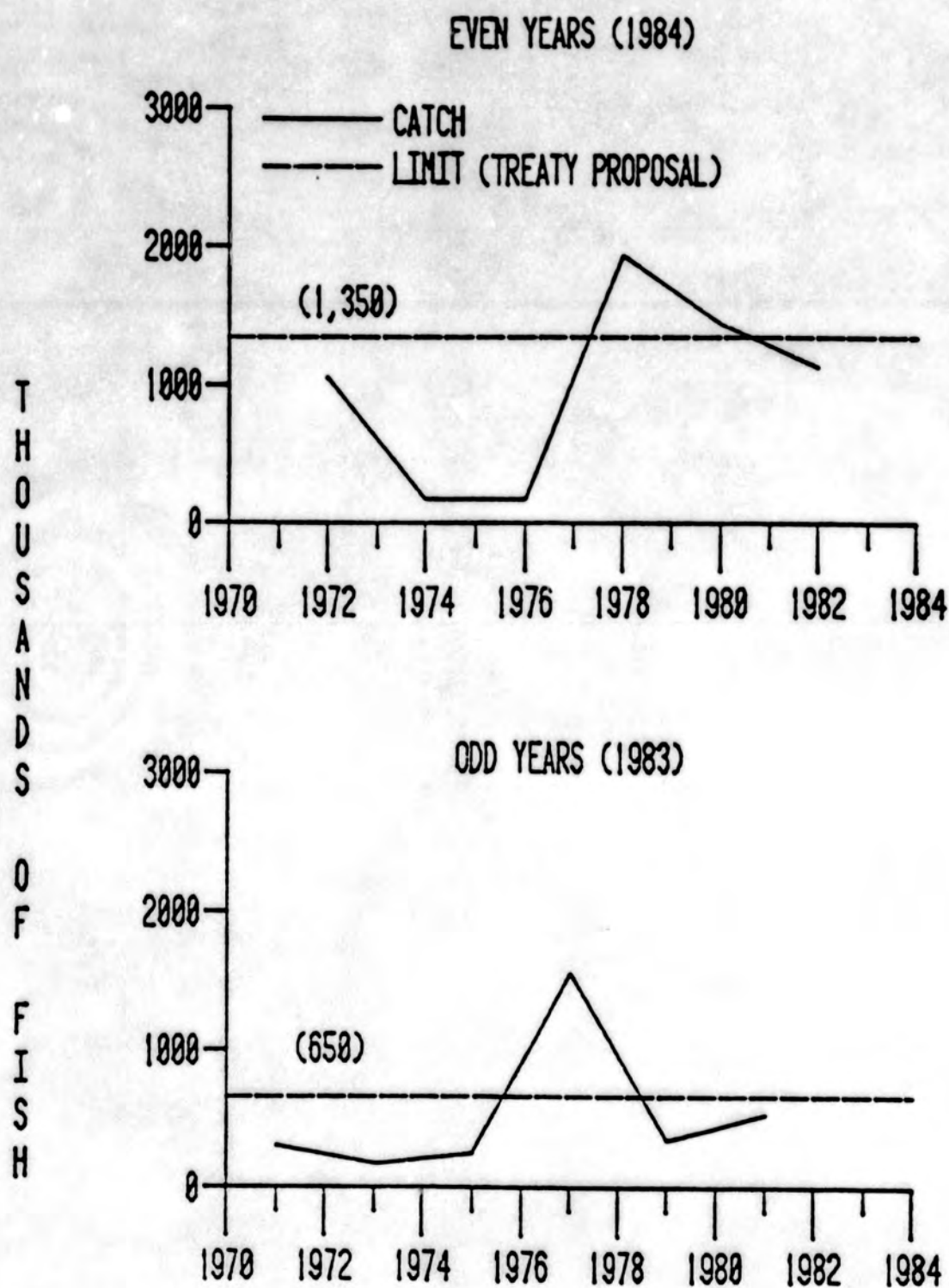


FIGURE 5. 1971-82 PINK SALMON CATCHES AND CATCH LIMITS PROPOSED FOR 1983 AND 1984 UNDER THE DRAFT U.S./CANADA SALMON TREATY FOR CANADIAN AREAS 3X, 3Y, 3Z-DELTA, AND 5-1 FOR ALL GEAR AND AREA 1 TROLL GEAR

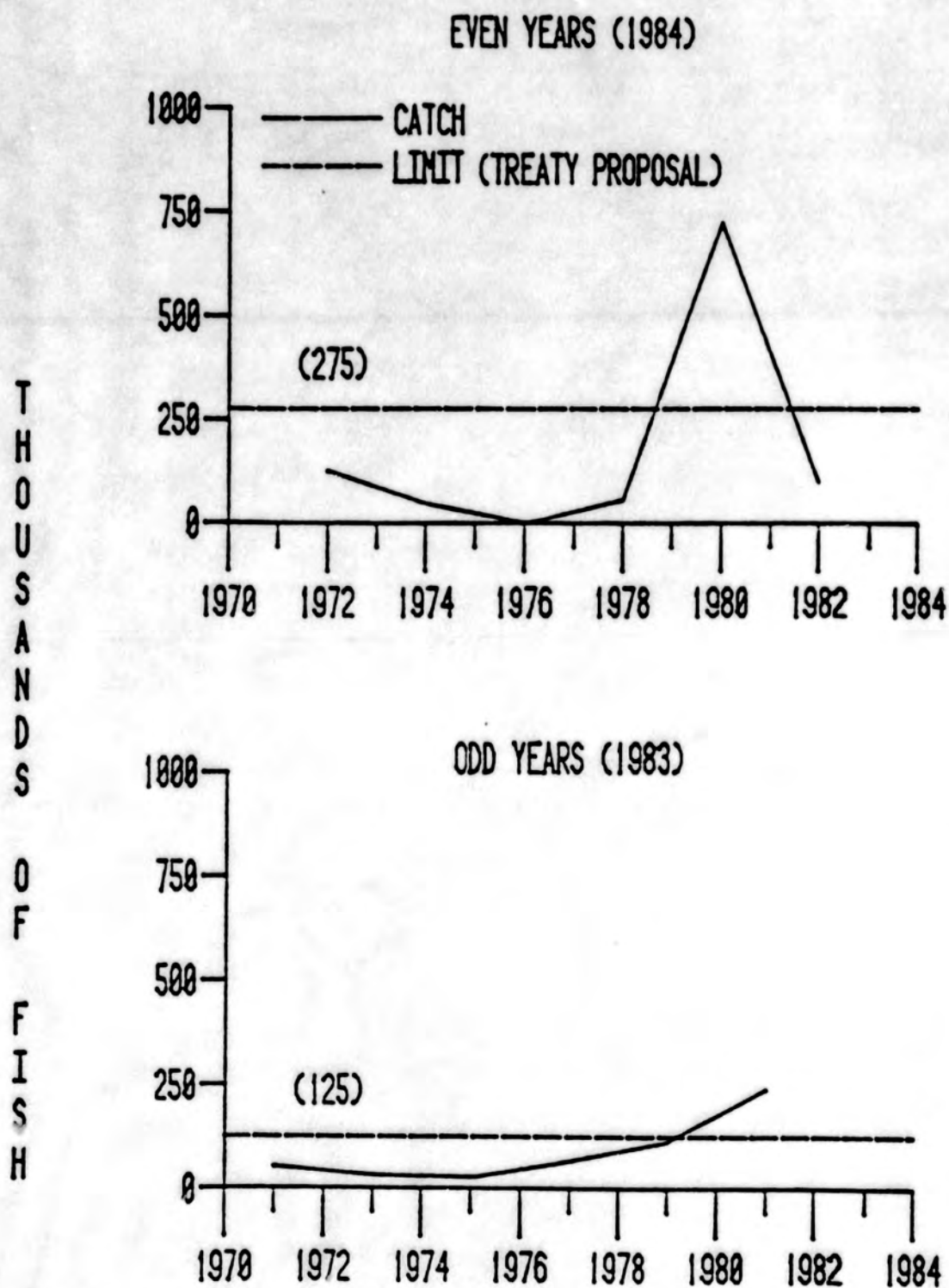


FIGURE 6. 1971-82 PINK SALMON CATCHES AND CATCH LIMITS PROPOSED FOR 1983 AND 1984 UNDER THE DRAFT U.S./CANADA SALMON TREATY FOR CANADIAN AREA 1 TROLL FISHERY

Table 4. Southeast Alaska Noyes Island (Dist. 4) Seine Fishery Salmon Catches, 1961-82. (ADF&G 1/83)

Year	Chinook	Coho	Sockeye	Pink	Chum	Total
1961	1,990	30,557	52,038	436,846	80,293	601,724
1962	2,952	59,282	139,357	1,086,199	65,458	1,353,248
1963	1,935	73,461	138,368	2,065,497	99,566	2,378,827
1964	4,470	103,809	231,245	1,245,826	214,818	1,800,168
1965	6,530	124,684	231,420	763,911	45,723	1,172,268
1966	3,933	56,858	31,150	1,856,451	100,268	2,048,660
1967	6,497	56,485	362,605	324,020	36,028	785,635
1968	5,274	81,668	71,097	3,287,531	139,821	3,585,391
1969	2,378	12,448	56,180	473,949	15,657	560,612
1970	809	5,876	14,597	137,736	17,043	176,061
1971	1,151	28,217	11,588	672,759	53,817	767,532
1972	2,170	71,062	84,946	1,627,527	133,333	1,919,038
1973	2,531	21,673	115,416	806,261	57,507	1,003,388
1974	3,145	51,029	119,105	1,017,798	74,801	1,265,878
1975	1,124	7,797	27,163	71,410	7,646	115,140
1976	1,107	14,684	105,255	317,182	31,437	469,665
1977	4,211	23,523	209,455	917,529	48,703	1,203,421
1978	7,651	71,517	104,232	2,050,555	74,749	2,308,704
1979	7,302	102,596	316,730	941,319	88,562	1,456,509
1980	10,644	113,091	410,107	2,355,437	177,960	3,067,239
1981	6,048	130,887	290,571	3,745,077	68,832	4,241,415
1982	21,447	153,533	283,383	4,557,867	352,800	5,369,030

Footnotes: (1) Most recent years data should be considered preliminary.

Table 5. Southeast Alaska Tree Point/ Portland Canal (Dist. 1-A, 1-B) Gillnet Fishery
Salmon Catches, 1960-Present (ADF&G 1/83)

Year	Chinook	Coho	Sockeye	Pink	Chum	Total
1960	1,213	4,309	14,278	19,824	99,062	138,686
1961	917	4,219	36,159	95,959	37,174	174,428
1962	1,499	12,550	41,189	157,288	37,065	249,591
1963	508	3,110	22,037	93,650	41,642	160,947
1964	1,098	15,707	47,070	162,476	79,156	305,507
1965	1,709	10,675	53,566	60,772	21,753	147,845
1966	642	9,362	66,063	275,634	32,818	384,519
1967	2,186	3,111	74,071	82,312	29,017	190,697
1968	589	17,044	67,106	272,351	96,352	453,442
1969	676	3,159	89,801	87,690	20,602	201,928
1970	340	16,425	52,765	516,105	68,097	653,732
1971	772	5,169	115,032	66,988	31,238	219,199
1972	1,294	35,689	134,493	178,318	156,711	506,505
1973	1,007	18,454	159,764	269,741	109,976	558,942
1974	776	21,327	113,299	166,637	81,770	383,809
1975	1,961	12,155	25,352	123,753	30,341	193,562
1976	1,807	16,275	117,965	210,061	36,262	382,370
1977	1,182	12,173	192,728	769,841	84,321	1,060,245
1978	2,591	47,804	153,444	532,291	116,764	852,894
1979	3,663	6,444	89,290	73,421	60,896	233,722
1980	1,531	19,995	108,610	675,466	155,118	960,720
1981	1,284	15,348	104,607	416,920	35,778	573,937
1982	2,787	27,189	187,064	347,247	82,359	646,646

Footnotes: (1) Most recent years data should be considered preliminary.

Table 6. Pink Salmon Catches in Canadian Areas 3X, 3Y, 3Z-Delta and 5-1 for All Gear and Area 1 Troll Gear for 1971-82 (ADF&G 1/83).

(Numbers of Fish in Thousands)

YEAR	----- ALL GEAR CATCHES -----				TROLL 1	TOTAL
	3X	3Y	3Z-DELTA	5-1		
1971	44	170	18	12	50	294
1972	90	502	107	222	125	1,046
1973	40	54	32	11	31	168
1974	32	46	9	40	45	172
1975	78	76	3	67	24	248
1976	54	85	6	25	1	171
1977	638	563	234	48	67	1,550
1978	615	935	290	35	57	1,932
1979	151	69	2	10	113	345
1980	54	441	72	145	722	1,434
1981	111	149	32	(5)	237	534
1982	303	462	249	(5)	(100)	1,119

Notes: (1) All 1982 data preliminary.

(2) 3Z-Delta catch equal to 25 percent of 3Z catch.

IV. Conservation Measures for Chinook Salmon
(Annex IV - Chapter 3)

IV. Conservation Measures for Chinook Salmon

The proposed U.S./Canada salmon treaty contains a plan for addressing a major conservation problem which has developed in recent years for a large number of important natural chinook salmon stocks. The stocks involved originate in coastal streams and rivers from the Columbia River to Southeast Alaska. (Location map shown in Figure 7.) They enter numerous fisheries in this same area both as juveniles or immatures during northwesterly coastal migrations to the Gulf of Alaska and again on return migrations bound for the spawning grounds. (Total coastwide chinook salmon catches since 1965 are shown in Figure 8 and Table 7). While both countries have taken some conservation measures, these actions have not been fully coordinated on a coastwide basis and, in total, do not appear to have been adequate to rebuild the depressed stocks.

Under the proposed treaty, catch limits would be imposed on certain chinook salmon fisheries in both countries which are major harvestors of these natural stocks to stop the decline in escapements and stabilize the stocks. The two countries would also proceed with planned chinook salmon enhancement and rehabilitation projects. By maintaining catch limits on the fisheries, the harvest of natural stocks would be expected to decrease as the proportion, and hence harvest, of hatchery stocks increased. This would allow a greater proportion of the natural stock runs to reach the spawning grounds.

As natural stocks were rebuilt, catch limits could be raised by mutual agreement within the Commission commensurate with increased production from both natural and supplemental stocks. Increased production would be shared in a manner consistent with the basic principles of the treaty.

Under the proposed treaty, Canadian fisheries in all B.C. areas except the west coast of Vancouver Island (Statistical Areas 20-27) would be reduced in 1983 to 868,000 fish. This represents a reduction of 290,000 fish or 25 percent from average 1978-81 catches in the specified areas (Table 8). Comparative catches since 1965 are shown in Figure 9 and Table 9.

Fisheries off the west coast of Vancouver Island were excluded from reductions under the proposed treaty since the largest percentage (roughly 85%) of catches are estimated to be from hatchery stocks with only a small percent coming from natural stocks. However, the treaty would require that Canada

manage the fisheries off Vancouver Island to ensure that catches would not increase as a result of transfers of fish saved by reductions in other fisheries.

Reductions in Canadian catches would be expected to increase escapements of Canadian natural chinook salmon stocks which have experienced substantial declines during the last two decades (Figure 10). Total estimated escapements averaged about 150,000 in 1981-82 or about 40 percent of the current management goal of 350-375,000 fish (excluding Canadian portions of the transboundary rivers).

The Canadian reductions would also be expected to benefit spawning escapements of depressed natural chinook salmon stocks bound for Washington coastal streams and the Columbia River. These stocks are also harvested extensively in Canadian fisheries.

During 1983, the proposed treaty would also limit chinook salmon catches in all Southeast Alaska fisheries to 263,000 and to 243,000 in all commercial fisheries. This would represent a reduction of 94,000 fish or 26 percent from the average 1978-81 all gear catch of 357,000 (Table 8). Comparative catches since 1965 are shown in Figure 11 and Table 10.

The proposed reductions in Southeast Alaska catches would be expected to benefit spawning escapements of natural chinook salmon stocks in Southeast Alaska (Figure 12), British Columbia and Washington and Oregon coastal streams including the Columbia River. Under the conditions of the treaty, fisheries in the more southern areas would have to be managed to insure that for depressed natural stocks, savings from the proposed harvest reductions in Southeast Alaska would be passed on to the spawning grounds rather than merely reallocated to other fisheries.

Following the 1983 season, the proposed treaty would require that the management performance relative to treaty obligations and the effect of the 1983 catch reductions on escapements be evaluated. Based on this evaluation, if escapements stabilized in 1983, the proposed 1983 catch limits would remain in effect for 1984. If escapements continued to decline even though both parties met their 1983 regulatory obligations, further reductions would be required.

The manner in which additional reductions would be made in 1984 or subsequent years, if necessary, is not specified. In particular, references to average 1981-82 catches as base levels for reductions are confusing and specific provisions are not made to take into account the fact that the full effect of 1983 catch reductions on escapements probably

cannot be adequately evaluated in time for the 1984 season.

A number of chinook salmon enhancement and rehabilitation programs would be supported under the proposed treaty. In Southeast Alaska, combined state and federal programs would contribute an estimated additional 160-260,000 fish to fisheries by the mid-1990s.

In Canada, existing plans for expanded supplemental production would be continued. One such program is the Robertson Creek hatchery where expanded smolt production from 1.5 to 9.0 million is planned.

In addition to continuation of present hatchery production in Washington and Oregon, a major salmon rehabilitation program is being developed for the Columbia River. Resolution of inriver problems, such as adult and juvenile migrant survival and habitat degradation, has recently received considerable impetus via legislation and court decisions. The Northwest Power Planning and Conservation Act (PL-96-501) provides fishery needs with equal status to power, irrigation, and navigation in allocating flows and overall management to the river.

As part of the Act, the Northwest Power Planning Council has recently circulated a draft of its fish and wildlife program designed to "protect, mitigate, and enhance" the fish and wildlife resource as affected by the hydroelectric system. This program, which is estimated to cost \$600 million in capital expenditures and \$150 million annually, will provide, among other things, a flow regime for juvenile outmigrants, improvement in fish passage facilities, and new enhancement efforts.

Under the proposed treaty, the objective would be to rebuild depressed natural chinook salmon stocks over a period of approximately two cycles or ten years through a combination of the fishery harvest limits and planned supplemental production and rehabilitation programs described above.

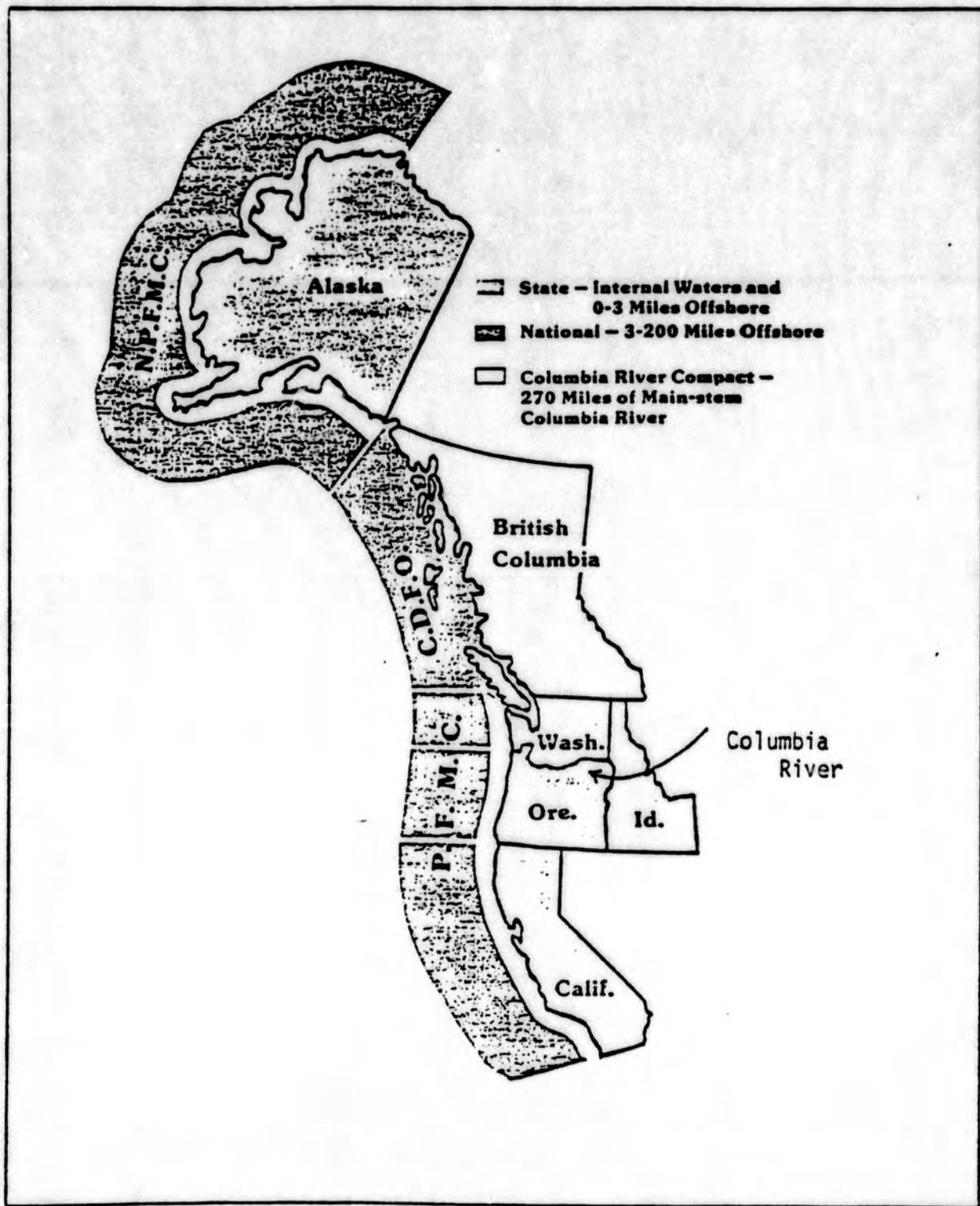


FIGURE 7. PACIFIC COASTAL FISHERY MANAGEMENT JURISDICTIONS

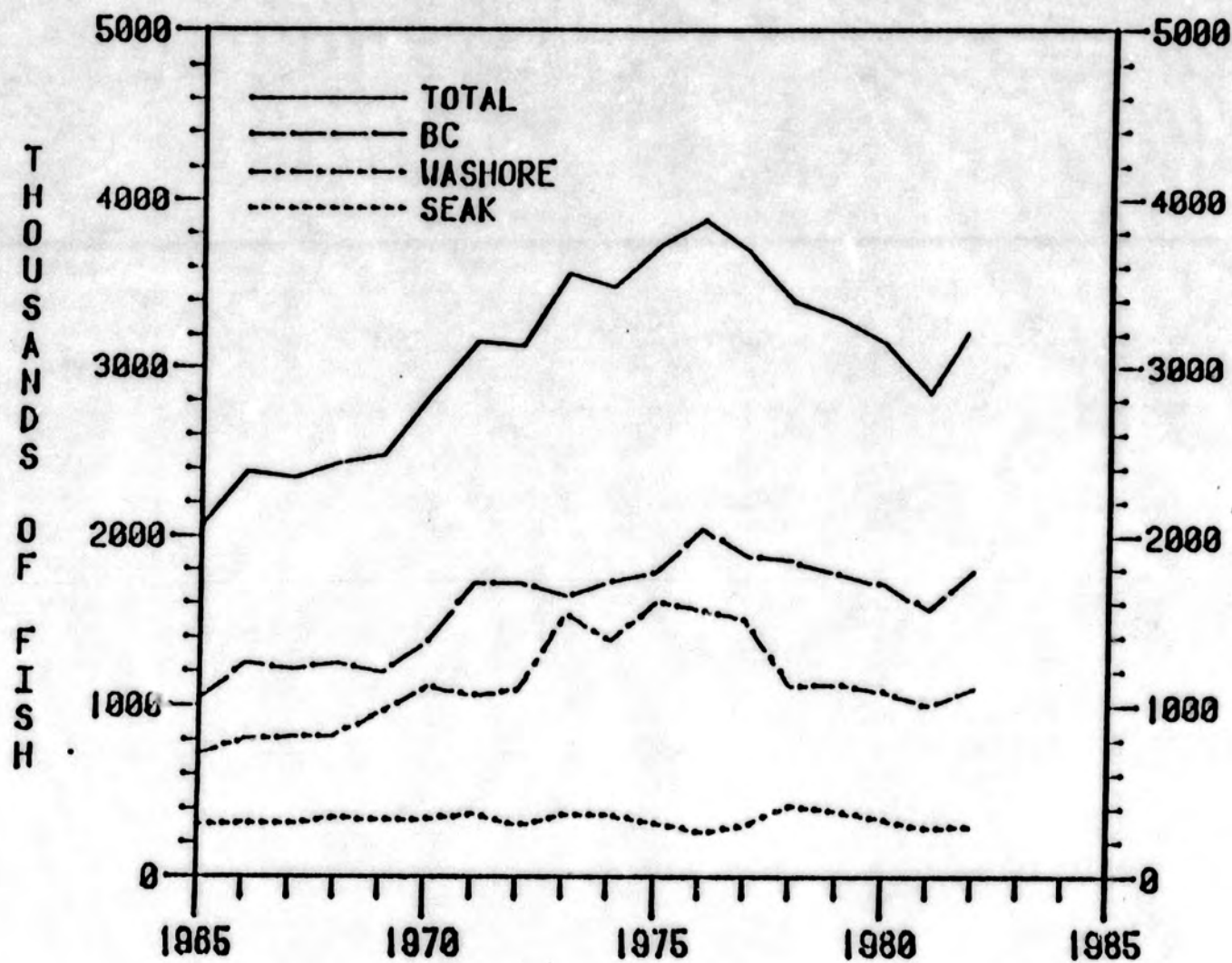


FIGURE 8 . TOTAL CHINOOK SALMON CATCHES BY ALL GEAR TYPE FISHERIES
IN WASHINGTON AND OREGON (INCLUDING THE COLUMBIA RIVER),
BRITISH COLUMBIA AND SOUTHEAST ALASKA, 1965-PRESENT

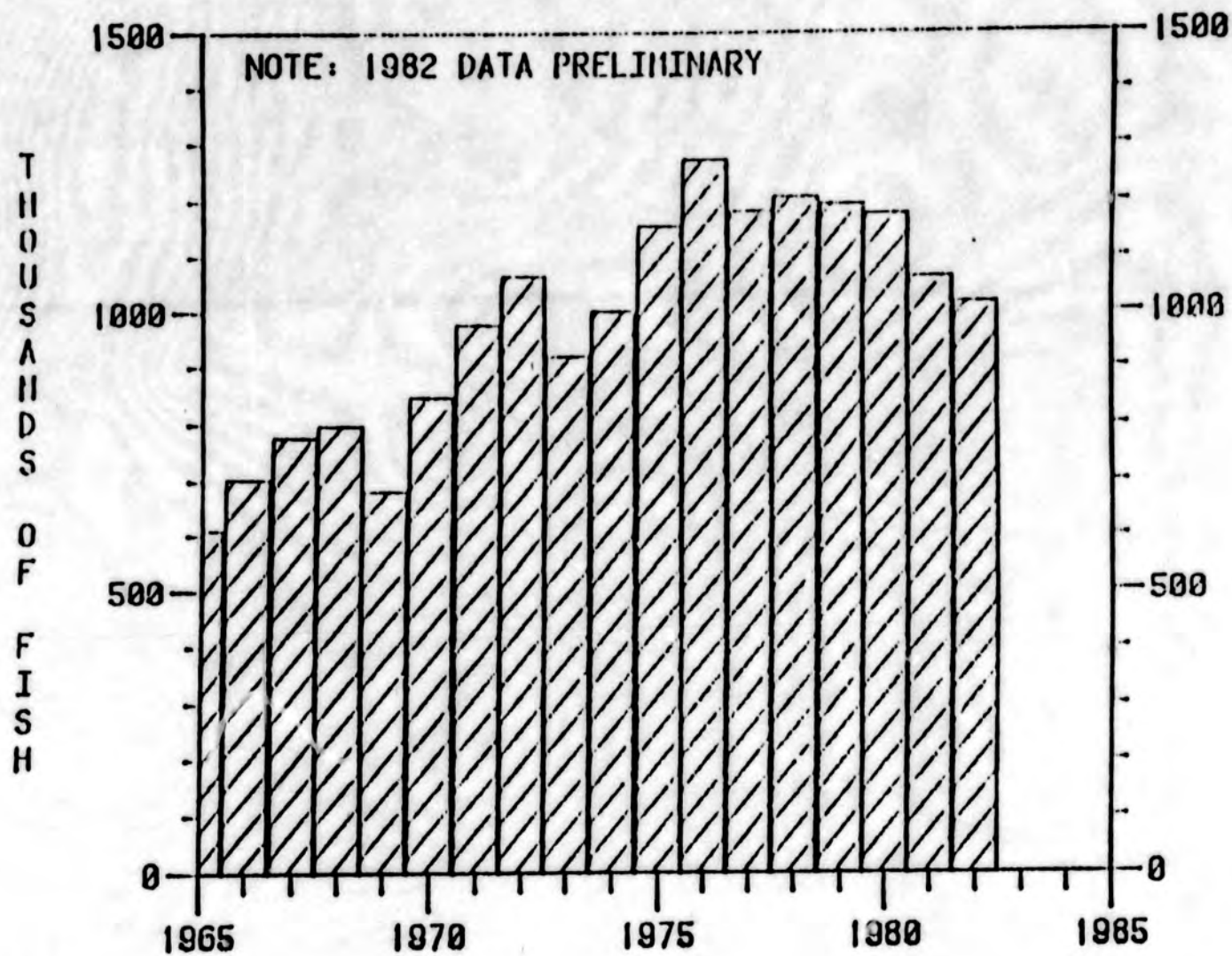


FIGURE 9 . CHINOOK SALMON CATCHES BY ALL GEAR IN BRITISH COLUMBIA AREAS EXCLUDING WEST COAST VANCOUVER IS. (STAT. AREAS 20-27), 1965-82

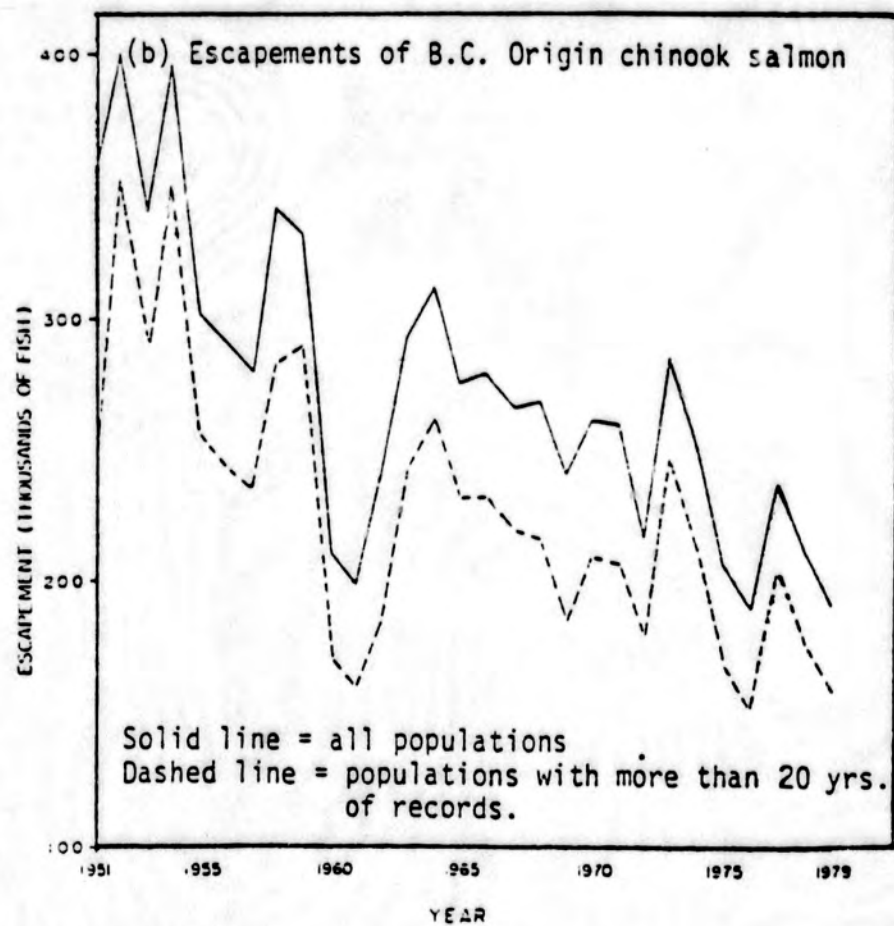
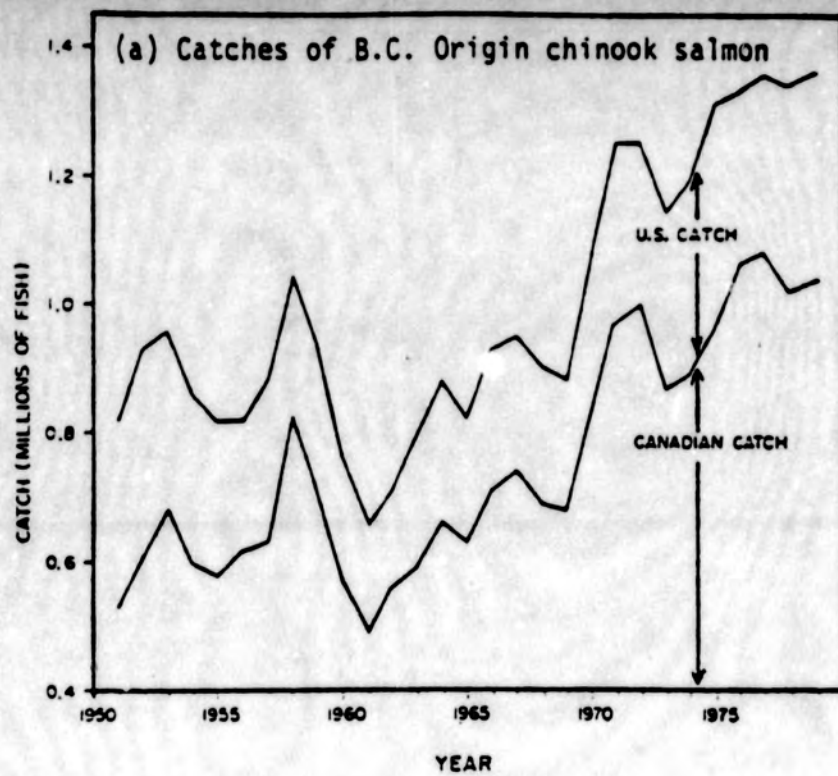


Figure 10. Estimated catches (a) and escapements (b) of British Columbia origin chinook salmon (After Healey, 1982)

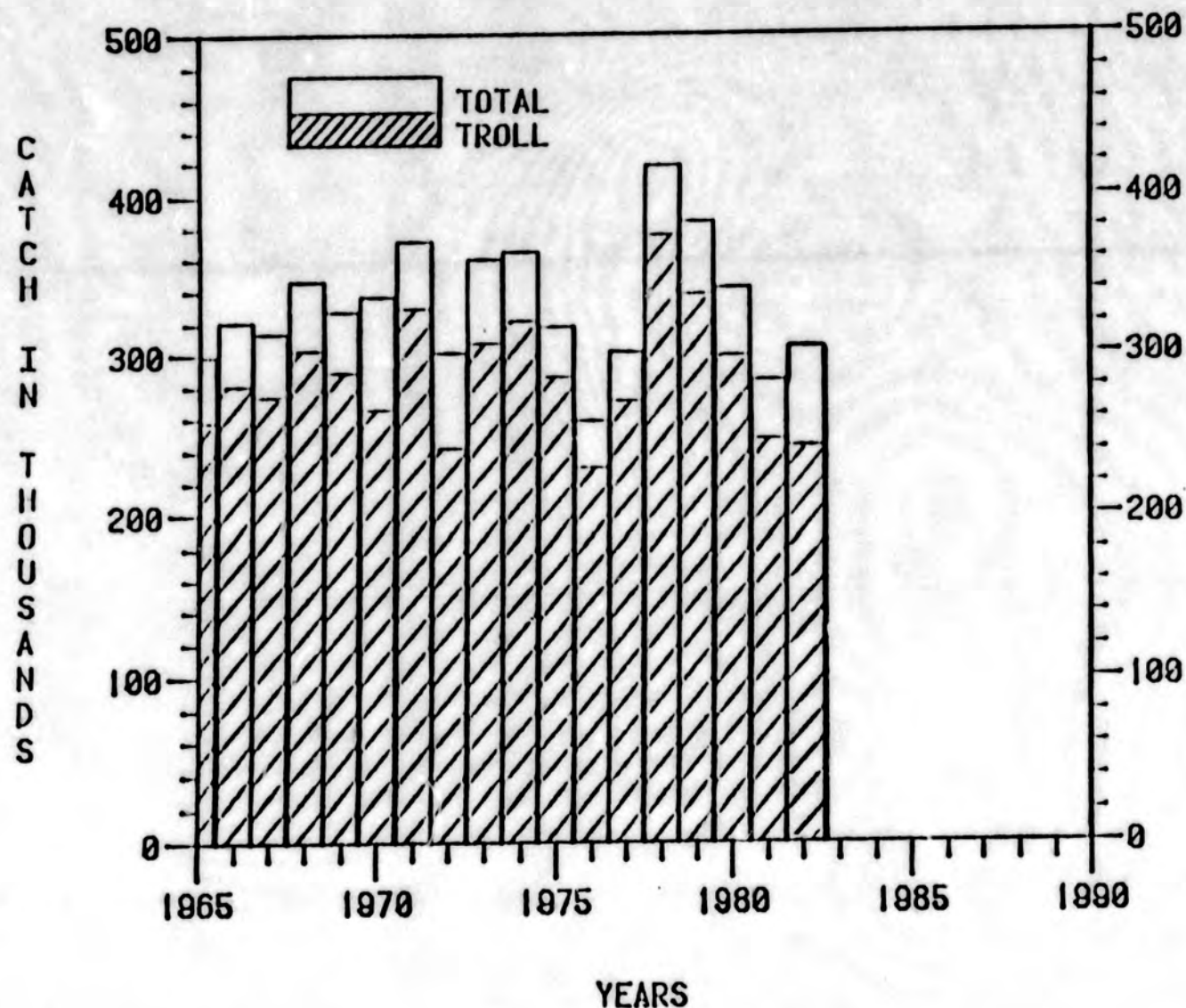


FIGURE 11. SOUTHEAST ALASKA REGION TOTAL CHINOOK SALMON CATCHES BY COMMERCIAL AND RECREATIONAL FISHERIES, 1965-82. (ADF&G 11/82)

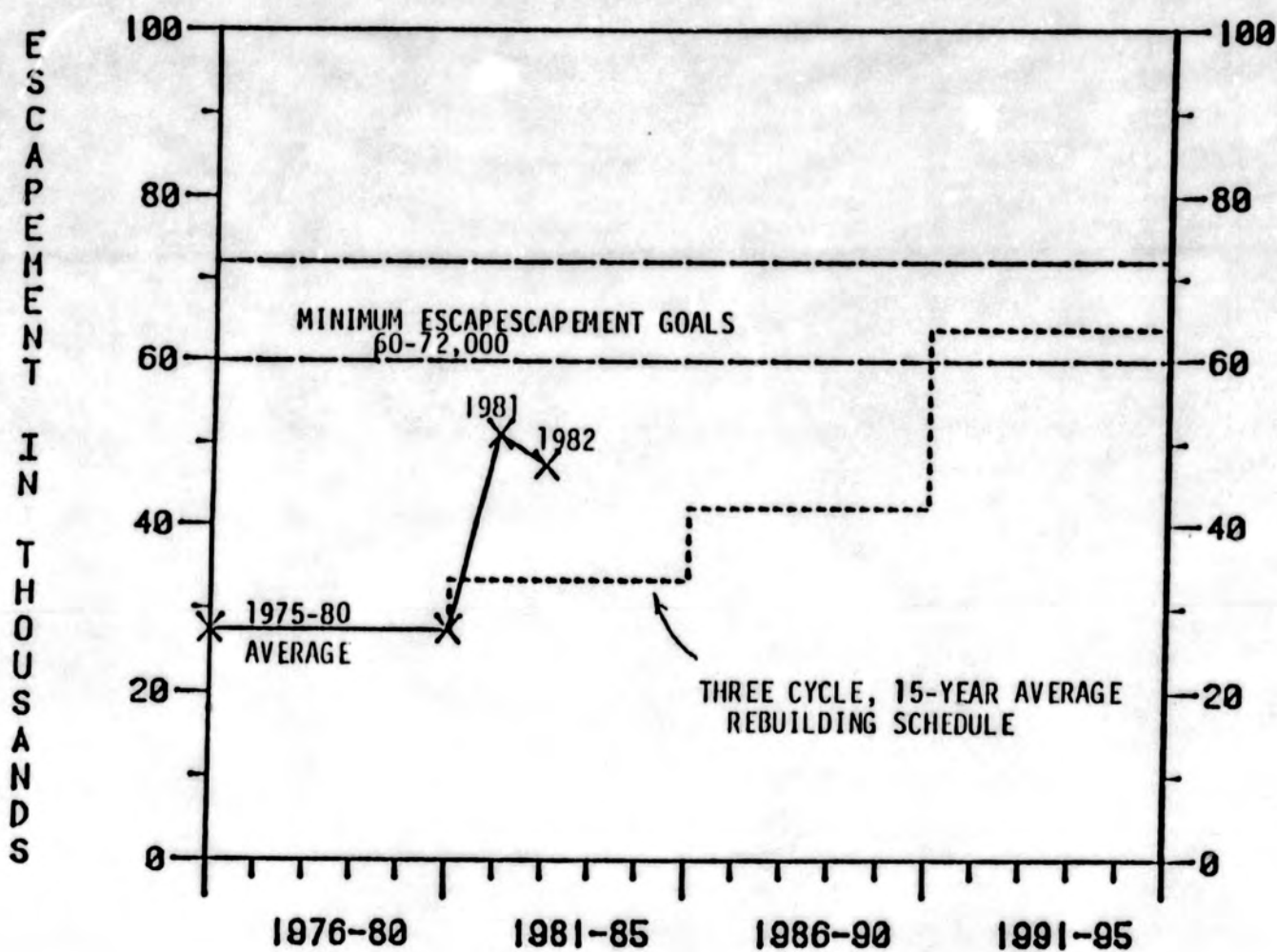


FIGURE 12. CURRENT STATUS OF SOUTHEAST ALASKA NATURAL CHINOOK SALMON ESCAPEMENTS COMPARED TO 15-YEAR REBUILDING SCHEDULE. (ADF&G 10/82)

Table 7. Total Chinook Salmon Catches by all Gear Types in Washington, Oregon, British Columbia and Southeast Alaska, 1965 - Present

(Numbers of Fish in Thousands)

Year	--- Washington & Oregon ---				B. C.		SE Alaska		Total
	Wash.	Oregon	Subtotal No.	%	No.	%	No.	%	
1965	558	(167)	725	35	1,042	50	300	15	2,067
1966	633	174	807	34	1,254	53	321	13	2,382
1967	630	191	821	35	1,208	52	314	13	2,343
1968	657	179	836	34	1,251	51	346	14	2,433
1969	717	246	963	39	1,190	48	328	13	2,481
1970	842	274	1,116	39	1,372	48	337	12	2,829
1971	878	181	1,059	34	1,726	55	371	12	3,156
1972	888	216	1,104	35	1,725	55	302	10	3,131
1973	1,089	458	1,547	44	1,648	46	360	10	3,555
1974	1,082	299	1,381	40	1,735	50	364	10	3,480
1975	1,277	338	1,615	43	1,792	48	318	9	3,725
1976	1,259	301	1,560	40	2,047	53	259	7	3,866
1977	1,058	446	1,504	41	1,879	51	302	8	3,685
1978	844	271	1,115	33	1,853	55	418	12	3,386
1979	820	313	1,133	34	1,770	54	384	12	3,287
1980	873	228	1,101	35	1,718	55	342	11	3,161
1981	722	189	911	33	1,561	57	285	10	2,757
1982	(880)	(272)	(1,152)	35	(1,792)	55	(305)	10	(3,249)

- Data Sources: (1) Jurisdictional reports in NPFMC Salmon Plan Development Team report 'North-Migrating Natural Chinook Salmon Stocks from Oregon to Southeast Alaska'.
 (2) PFMC Draft Proposed Plan for Managing the 1983 Salmon Fisheries off the Coasts of California, Oregon and Washington. Feb. 1983.
 (3) Preliminary 1982 catch reports by managing agencies.

Table 8. Reductions proposed during November 1982 U.S.-Canada salmon interception negotiations for 1983 chinook salmon harvests in selected fisheries in Southeast Alaska and British Columbia with comparisons for recent years. (ADF&G 12/7/82).
(Numbers of fish in 1000's)

1/ ----- Southeast Alaska Fisheries -----								
Period	Total Commercial & Sport				Commercial Troll & Net			
	Average Catch	Proposed 1983 Catch ceiling	Reduction Number	Percent	Average Catch	Approx. 1983 Target ceiling	Reduction Number	Percent
1978-81 (Base period)	357	263	94	26	340	(243)	97	29
1981-82	295	↓	32	11	278	↓	35	13
1982 Actual	305	↓	42	14	287	↓	44	15
1982 Target	(277)	↓	14	5	257	↓	14	5

2/ ----- British Columbia Fisheries -----								
Period	Total Commercial & Sport				Commercial Troll & Net			
	Average Catch	Proposed 1983 Catch ceiling	Reduction Number	Percent	Average Catch	Approx. 1983 Target ceiling	Reduction Number	Percent
1978-81 (Base Period)	1,158	868	290	25	808	(468) ^{4/}	340	42
1981-82	1,044	↓	176	17	644	↓	176	27
1982 (Prelim)	(1,053) ^{3/}	↓	185	18	653	↓	185	28

1/
Includes all commercial and recreational fisheries in the Southeast Alaska region. Harvest ceilings applied only to commercial fisheries in 1980-82. The 1982 target shown for commercial and sport fisheries including an estimated 20,000 sport catch. A similar sport catch is expected in 1983. Catch data provided by ADF&G.

2/
Includes all commercial and recreational fisheries in British Columbia except troll and net fisheries along the west coast of Vancouver Island in statistical areas 20-27. Catch data provided by CDFO.

3/
1982 catch data for Canadian fisheries is very preliminary. Upward revision of this figure is expected.

4/
Approximate target ceiling required for commercial fisheries if Georgia St. recreational harvest were limited to recent levels but not reduced. Canadian estimate of average 1981-82 sport harvest is 400,000 fish. Canada has not indicated exactly how the reduction will be allocated to the various fisheries.

Table 9. Comparative Chinook Salmon Catches by all British Columbia Fisheries and by all Fisheries except those on the west coast of Vancouver Island (Statistical Areas 20-27), 1965-82.

Numbers of Fish in 1,000's

YEAR	TOTAL COMMERCIAL AND RECREATIONAL CATCH	WEST COAST VANCOUVER IS. CATCH	DIFFERENCE = ALL B.C. FISHERIES EXCEPT W. COAST VANCOUVER
1965	1,042	432	610
1966	1,254	550	704
1967	1,208	431	777
1968	1,251	454	797
1969	1,190	507	683
1965-69 Average	1,189	475	714
1970	1,372	523	849
1971	1,726	750	976
1972	1,725	662	1,063
1973	1,648	727	921
1974	1,735	733	1,002
1970-74 Average	1,641	679	962
1975	1,792	638	1,154
1976	2,047	776	1,271
1977	1,879	699	1,180
1978	1,853	648	1,205
1979	1,770	576	1,194
1975-79 Average	1,868	667	1,201
1980	1,718	543	1,175
1981	1,561	500	1,061
1982 PRELIM.	(1,792)	(775)	(1,017)
1980-82 Average	1,690	606	1,084

Table 10. Southeast Alaska Commercial and Recreational Chinook Salmon Harvest, 1965 - Present. (ADF&G 1/83)

(Numbers of Fish in Thousands)

Year	-- Commercial Fisheries --			Recreational Fisheries 1/	Total
	Troll	Net	Subtotal		
1965	259	28	287	(13)	(300)
1966	282	26	308	(13)	(321)
1967	275	26	301	(13)	(314)
1968	304	28	332	(14)	(346)
1969	290	24	314	(14)	(328)
1965-69 Ave.	282	26	308	13	322
1970	305	18	323	(14)	(337)
1971	334	22	356	(15)	(371)
1972	242	45	287	(15)	(302)
1973	308	36	344	(16)	(360)
1974	322	25	347	(17)	(364)
1971-74 Ave.	302	29	331	15	347
1975	287	14	301	(17)	(318)
1976	231	11	242	(17)	(259)
1977	272	13	285	17	302
1978	376	25	401	17	418
1979	338	29	367	17	384
1975-79 Ave.	301	18	319	17	336
1980	300	22	322	20	342
1981	248	20	268	17	285
1982 2/	(242)	(45)	(287)	(18) 3/	(305)
1980-82 Ave.	263	29	292	18	311

1/ Estimates of recreational catches for 1977-81 based on mail surveys. Estimates for 1965-76 based on 1977-80 average catch per capita of 0.332 fish applied to population estimates.

2/ Preliminary data.

3/ Projection equal to 1980-81 average catch.

V. Yukon River (Article III)

V. Yukon River

Arrangements between the two countries for dealing with Yukon River salmon management and harvest sharing issues of joint concern are not specified in the proposed treaty. The institutional framework for the Yukon is also left open - whether it is to be handled under a separate Commission and panels or as part of the system outlined in the draft treaty under Article III. The two countries would, however, commit to negotiating Yukon River issues as soon as possible. They would also have to agree on a range of percentages which would apply to Canadian origin salmon caught in the U.S. when determining how many fish are actually produced by each country in this drainage. In other words, not every fish which would have spawned in Canada would be counted 100% Canadian due to the large part of the drainage in Alaska and U.S. management of these stocks. Actual numbers would not be derived until further research was conducted. Draft treaty language in this section requires further clarification.

Comparative harvest statistics are shown in Table 11.