

**TCFP 8901**

**November 1989**

**PACIFIC SALMON COMMISSION  
JOINT FRASER PANEL TECHNICAL COMMITTEE**

**REPORT TCFR (89)-1**

**REPORT TO THE JOINT INTERCEPTIONS COMMITTEE  
ON 1980-88 INTERCEPTION ESTIMATES**

**November 1, 1989**

MEMORANDUM

TO: Joint Interceptions Committee  
FROM: Fraser Technical Committee  
SUBJECT: 1980-88 Interception Estimates  
DATE: November 1, 1989

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The enclosed LOTUS 123 disk files and tables contain revised estimates of interceptions of Southern British Columbia and Washington State origin sockeye and pink salmon for categories D and E interceptions. Also enclosed are estimates of Fraser River sockeye and pink salmon caught in Alaska (category A interceptions). Copies of this information are being provided to the Northern Boundary Technical Committee for their information. These revised estimates were generated by the Pacific Salmon Commission (PSC) staff, and reviewed and agreed to by the Fraser Technical Committee as the best available estimates at this time (subject to several qualifications described below). Copies of the specific information provided by the PSC staff are also enclosed.

Please note the following clarifications:

- A) The Fraser Panel authorizes test fishing in both countries and these catches are excluded from the catch accounting. These catches have been subtracted from the interception numbers as provided in the Lotus 123 files, but are subscripted to the files. The technical committee suggests that the Joint Interception Committee decide on their inclusion in the interception tables;
- B) no stock composition estimates are available for pinks caught during even years in southern areas. Even year pink catches in Southern Vancouver Island, the Fraser River and Washington, are small and interceptions are likely negligible, and therefore, are not included;
- C) estimates considered to be preliminary have been rounded;
- D) the sockeye interception estimates are based on analysis of scale patterns. Both countries agree that this stock identification method is providing reliable results.
- E) Prior to 1983, estimates of Fraser River sockeye catch in Alaska were not made. Prior to 1985, estimates of Southern B.C. and Washington pink (Study Area stocks) catches in Alaska and Northern B.C. were not made.

The Fraser Technical Committee accepts the attached interception tables with the qualifications listed below. The stock identification methods used for pink salmon are run reconstruction for years prior to 1987 and genetic stock identification (GSI) methods for 1987.

A) the pink run reconstruction method used for years prior to 1987 has not yet been reviewed by the technical committee. The interception estimates based on run reconstruction are, therefore, subject to change.

B) the GSI based estimates have a yet not agreed to bias, but an agreed correction procedure is not yet available. Therefore, the 1987 interception estimates have not been corrected for bias, and will change when a bias correction method is developed.

#### Recommendation

The Fraser Technical Committee has identified the need for further work on the development of a standard GSI bias correction method.











# PACIFIC SALMON COMMISSION

ESTABLISHED BY TREATY BETWEEN CANADA  
AND THE UNITED STATES OF AMERICA  
MARCH 17, 1985

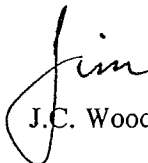
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November 1, 1989

TO: Fraser Panel Technical Committee  
FROM: J.C. Woodey, Chief, Fisheries Management Division  
RE: Sockeye and pink salmon interception estimates.

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Attached are the PSC's "best estimates" of Fraser River sockeye and pink salmon catches in Washington/Oregon fisheries (Category E). In addition, by-products of our racial analyses, the Washington/Oregon catches of Canadian non-Fraser (Johnstone Strait/Study Area) pink salmon (Category E) and British Columbia catches of Washington sockeye and pink salmon (Category D) are provided. Alaska catches of Fraser River sockeye and pink salmon (Category A) are provided so that you will have the data for discussions with the Northern Boundary Technical Committee. Please note that we have not made estimates of Alaska catches of Johnstone Strait pinks (if any) because of the difficulty in racial identification of these fish.

  
J.C. Woodey

PSC File 62001



SOCKEYE

Category A

(Alaska interception of British Columbia salmon)\*  
(Fraser River sockeye salmon only)

<u>Year</u>	<u>Commercial Catch</u>
1980	Nil
1981	Nil
1982	Nil
1983	95,811
1984(p)	Nil
1985	10,263
1986(p)	12,000
1987(p)	5,000
1988(p)	Nil

\* Data obtained in PSC estimates of Fraser River sockeye catches in the District 104 fishery.

(p) Preliminary data - commercial catches rounded

**SOCKEYE**

**Category D**

(B.C. interceptions of Washington/Oregon/Idaho/California salmon)\*

<u>Year</u>	<u>Commercial Catch</u>	<u>Commission Test Fishing</u>	<u>Total</u>
1980	1,778	2,102	3,880
1981	50	1,919	1,969
1982(p)	250	2,533	2,783
1983	0	2,413	2,413
1984(p)	0	2,177	2,177
1985	0	1,035	1,035
1986(p)	0	1,355	1,355
1987(p)	0	1,064	1,064
1988(p)	250	3,445	3,695

\* Data obtained from PSC estimates of racial composition of B.C. fishery catches.

(p) Preliminary data - commercial catches rounded.

SOCKEYE

Category E

(Washington/Oregon interceptions of B.C. Salmon)\*

<u>Year</u>	<u>Commercial</u>	<u>Commission Test Fishing</u>	<u>Total</u>
1980	459,507	5,062	464,569
1981	1,283,922	8,987	1,292,909
1982(p)	2,856,000	6,872	2,862,872
1983	370,985	2,637	373,622
1984(p)	1,635,000	5,053	1,640,053
1985	2,914,483	8,301	2,922,784
1986(p)	2,722,000	13,793	2,735,793
1987(p)	1,921,000	6,000	1,927,000
1988(p)	668,000	10,675	678,675

\* Data obtained from PSC estimates of racial composition of Washington fishery catches.

(p) Preliminary data - commercial catches rounded.

PINK

Category A

(Alaska Interception of British Columbia salmon)\*  
(Fraser River pink salmon only)

<u>Year</u>	<u>Commercial Catch</u>
1980	--
1981	--
1982	--
1983	--
1984	--
1985	10,389
1986	--
1987	864
1988	--

\* Data obtained from PSC estimates of Fraser River pink salmon catches in the District 104 fishery.

PINK

Category D

(B.C. interceptions of Washington/Oregon/Idaho/California salmon)\*

<u>Year</u>	<u>Commercial Catch</u>	<u>Commission Test Fishing</u>	<u>Total</u>
1980	--	--	--
1981	346,601	260	346,861
1982	--	--	--
1983	326,585	401	326,986
1984	--	--	--
1985	1,204,356**	1,793	1,206,149
1986	--	--	--
1987	1,083,506**	9,380	1,092,886
1988	--	--	--

\* Data obtained from PSC estimates of racial composition of B.C. fishery catches.

\*\* Includes north coast B.C. catches.

PINK

Category E

(Washington/Oregon interception of B.C. salmon)\*

<u>Year</u>	FRASER RIVER PINK SALMON			CANADIAN NON-FRASER		
	<u>Commercial Catch</u>	<u>Commission Test Fishing</u>	<u>Total</u>	<u>Commercial Catch</u>	<u>Commission Test Fishing</u>	<u>Total</u>
1980	--	--	--	--	--	--
1981	3,848,580	1,944	3,850,524	51,496	25	51,521
1982	--	--	--	--	--	--
1983	1,799,299	2,308	1,801,607	19,621	25	19,646
1984	--	--	--	--	--	--
1985	3,823,977	702	3,824,679	24,167	4	24,171
1986	--	--	--	--	--	--
1987	1,337,597	929	1,338,526	114,011	78	114,089
1988	--	--	--	--	--	--

\* Data obtained from PSC estimates of racial composition of Washington/Oregon fishery catches.