

**New Format of Data Tables for the
NPAFC Statistical Yearbook**

submitted to the

North Pacific Anadromous Fish Commission

by

Canada, Japan, Korea, Russia and the United States

**Working Group on Stock Assessment,
Committee on Scientific Research and Statistics (CSRS)**

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THIS PAPER MAY BE CITED IN THE FOLLOWING MANNER:

Anon. 2006. New format of data tables for the NPAFC Statistical Yearbook. (NPAFC Doc. 1001) 14p. Working Group on Stock Assessment, Committee on Scientific Research and Statistics (CSRS).

Abstract

As the Republic of Korea became a Party to the Convention for the Conservation of Anadromous Stocks in the North Pacific Ocean in May 2003, the necessity to change the data tables in the NPAFC Statistical Yearbook series was recognized by the Parties. Under the instruction of CSRS, the Working Group on Stock Assessment prepared the final draft of new format of data tables for the NPAFC Statistical Yearbook for years from 2003.

Introduction

The Convention for the Conservation of Anadromous Stocks in the North Pacific Ocean (the Convention) provides that the Parties shall: 1) cooperate, as appropriate, in collecting, reporting and exchanging biological information, fisheries data, including catch and fishing effort statistics, biological samples and other relevant data pertinent to the purpose of the Convention, with respect to fisheries and scientific research in the Convention Area; and 2) provide the Commission upon its request, catch information, enhancement information, materials such as biological samples and other technical data or information related to anadromous stocks and ecologically related species, pertaining to areas adjacent to the Convention Area from which anadromous stocks migrate into the Convention Area (Article VII, Paragraphs 2 and 3).

In accordance with these provisions, the North Pacific Anadromous Fish Commission (NPAFC) has annually published the NPAFC Statistical Yearbook since 1997, and the NPAFC Secretariat has overseen preparation and publication of the Yearbook series pursuant to the Rule of Procedure 19(k). Prior to the first issue of the Yearbook, covering data for the year 1993, the Committee on Scientific Research and Statistics (CSRS) had discussed to finalize format of the Yearbook as outlined below.

- 1) At the First Annual Meeting (November 1–5, 1993, Vancouver, B.C., Canada), CSRS agreed that the format of the NPAFC Statistical Yearbook would be drafted by the Statistical Yearbook Working Group and the Secretariat through correspondence for consideration and approval at the Second Annual Meeting.
- 2) At the Second Annual Meeting (October 10–15, 1994, Vladivostok, Russia), the Working Group to review the format of the former International North Pacific Fisheries Commission (INPFC) Statistical Yearbook reached substantial agreement on a revision and consolidation of the data tables, but agreement could not be reached on the provisional groundfish data from Japan and Russia.
- 3) At the Third Annual Meeting (November 5–10, 1995, Seattle, WA, U.S.A.), CSRS recommended that the format proposed by the Statistical Yearbook Working Group be approved with two amendments, and the Commission adopted the recommendation.

The original format of the Statistical Yearbook series has not been drastically changed since the first issue, although there have been deletion/addition of several tables and some minor modifications.

New format of data tables for the NPAFC Statistical Yearbook 2003 and beyond

In May 2003, the Republic of Korea (Korea) acceded to the Convention and became a member of NPAFC. This has led the NPAFC Secretariat to raise the issue of necessity to change the data tables in the NPAFC Statistical Yearbook series at the 2004 Research Planning and Coordinating Meeting

(RPCM)(May 12–13, 2004, Petropavlovsk-Kamchahtsky, Russia). In response to this, Korea forwarded a proposal on its own new data tables to the NPAFC Secretariat in August 2004 (through e-mail correspondence). The United States, taking that opportunity, also submitted a proposal of revising the non-salmonid species catch data table (Table 33 in the present version)to the Commission in August 2004 (NPAFC Doc. 768). These proposals were considered and reviewed by the Parties at the 12th Annual Meeting (October 24–29, 2004, Sapporo, Hokkaido, Japan) and 2005 RPCM (April 21–22, 2005, Nanaimo, B.C., Canada), and it was agreed at the 13th Annual Meeting (October 24–28, 2005, Seogwipo, Jeju-do, Korea) that the Working Group on Stock Assessment (WGSA), with assistance of the Secretariat, would prepare the final draft of new format of data tables for the Statistical Yearbook for consideration and approval at the Fourteenth Annual Meeting. All Parties were invited to submit their comments and proposals related to this issue by the time of 2006 RPCM.

In accordance with the agreement, WGSA prepared the final draft as appended. The draft was finalized during WGSA’s session at the NPAFC 14th Annual Meeting (October 23–27, 2006, Vancouver, B.C., Canada).

Major changes from the present version are:

- Four new tables to be included for the Republic of Korea (Tables 16–19), and Tables 1–4 to be modified accordingly;
- One area name to be modified for Canada (from “Queen Charlotte” to “Queen Charlotte Islands”);
- The table of “Commercial salmon catch in Japan by species and month, in tonnes” to be deleted;
- The table of “Commercial salmon catch in Russia (Far East) by species and month, in numbers of fish” to be deleted; and
- The table of “Commercial salmon catch in Washington, Oregon, California, and Idaho by species, area, and month, in numbers of fish” to be deleted.

Monthly catch data tables of Japan, Russia, and the United States are to be deleted because of the difficulty to provide reliable data.

References

Low, L.L. 2004. Statistics on non-salmonid species for the NPAFC Statistical Yearbook series— suggestion for changing area divisions for the United States. (NPAFC Doc. 768) 7p. Alaska Fisheries Science Center, National Marine Fisheries Service, 7600 Sand Point Way NE, Seattle WA 98115, U.S.A.

(Appendix)

Table 1. Commercial salmon catch by species and country, in thousands of fish, YYYY. [to be modified]

COUNTRY	ALL SPECIES	SPECIES						
		SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
TOTAL ¹								
CANADA (British Columbia) ²								
JAPAN ³								
KOREA ⁴								
RUSSIA ⁵ Russian Fishery Foreign Fleets in Russian EEZ								
UNITED STATES ⁶								

note 1. Discrepancies between actual sums of component figures and totals given are due to rounding.

note 2. Data from Table 5.

note 3. Data from Table 12.

note 4. Data from Table 16.

note 5. Data from Table 20.

note 6. Data from Table 27.

“NA”: Not available.

“-”: Nil or zero.

Table 2. Commercial salmon catch by species and country, in tonnes (round weight), YYYY. [to be modified]

COUNTRY	ALL SPECIES	SPECIES						
		SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
TOTAL ¹								
CANADA (British Columbia) ²								
JAPAN ³								
KOREA ⁴								
RUSSIA ⁵ Russian Fishery Foreign Fleets in Russian EEZ								
UNITED STATES ⁶								

note 1. Discrepancies between actual sums of component figures and totals given are due to rounding.

note 2. Data from Table 6.

note 3. Data from Table 13.

note 4. Data from Table 17.

note 5. Data from Table 21.

note 6. Data from Table 28.

“NA”: Not available.

“-”: Nil or zero.

Table 3. Average weights (kg) of salmon in commercial catch by species, country, and area, YYYY. [to be modified]

COUNTRY & AREA	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
CANADA ¹							
Taku/Stikine							
Queen Charlotte Islands							
North Coast							
West Coast Vancouver Island							
South Coast							
JAPAN ²							
Total							
KOREA ³							
Total							
RUSSIA ⁴							
Russian Fishery							
Foreign Fleets in Russian EEZ							
UNITED STATES ⁵							
Alaska							
Washington							
Oregon							
California							
Idaho							

note 1. Data from Table 8.

note 2. Data from Table 14.

note 3. Data from Table 18.

note 4. Data from Table 23.

note 5. Data from Table 29.

“NA”: Not available.

“-”: No catch.

Table 4. [Hatchery releases of salmon fry and smolts](#) by species, country, and area, in millions of fish, YYYY. [to be modified with a changed title]

COUNTRY & AREA	ALL SPECIES	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
TOTAL								
CANADA ¹								
Yukon								
Queen Charlotte Islands								
North Coast								
West Coast Vancouver Island								
South Coast								
Interior B.C.								
JAPAN ²								
Total								
KOREA ³								
Total								
RUSSIA ⁴								
Far East								
UNITED STATES ⁵								
Alaska								
Washington								
Oregon								
California								
Idaho								

note 1. Data from Table 11.

note 2. Data from Table 15.

note 3. Data from Table 19.

note 4. Data from Table 26.

note 5. Data from Table 32.

“NA”: Not available.

“-”: No release.

“0.0”: More than zero but less than 0.05 millions of fish.

Table 5. Commercial salmon catch¹ in Canada (British Columbia) by species and area, in thousands of fish, YYYY. [to be modified]

AREA ²	ALL SPECIES	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD
TOTAL ³							
Taku/Stikine							
Taku							
Stikine							
Queen Charlotte <u>Islands</u>							
1							
2 East							
2 West							
North Coast							
3							
4							
5							
6							
7							
8							
9							
10							
30							
West Coast							
Vancouver Island							
21							
22							
23							
24							
25							
26							
27							
South Coast							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
28							
29							

note 1. Only retained catch is included

note 2. See Fig. 1.

note 3. Discrepancies between actual sums of component figures and totals given are due to rounding.

"-": Zero or nil.

"0": Not zero but less than 0.5 thousands of fish.

Source: Fisheries and Oceans Canada, Pacific Region, Regional Data Unit.

Table 6. Commercial salmon catch¹ in Canada (British Columbia) by species and area, in tonnes (round weight), YYYY. [to be modified]

AREA ²	ALL SPECIES	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD
TOTAL ³							
Taku/Stikine							
Taku							
Stikine							
Queen Charlotte <u>Islands</u>							
1							
2 East							
2 West							
North Coast							
3							
4							
5							
6							
7							
8							
9							
10							
30							
West Coast							
Vancouver Island							
21							
22							
23							
24							
25							
26							
27							
South Coast							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
28							
29							

note 1. Only retained catch is included.

note 2. See Fig. 1.

note 3. Discrepancies between actual sums of component figures and totals given are due to rounding.

"-": Zero or nil.

"0": Not zero but less than 0.5 tonnes.

Source: Fisheries and Oceans Canada, Pacific Region, Regional Data Unit.

Table 7. Commercial salmon catch¹ in Canada (British Columbia) by species, area², and month, in numbers of fish, YYYY. [to be modified]

I-VI. (for all species)

MONTH	ALL AREAS	Taku/Stikine		Queen Charlotte Islands			North Coast							
		Taku	Stikine	1	2 East	2 West	3	4	5	6	7	8		
January														
February														
March														
April														
May														
June														
July														
August														
September														
October														
November														
December														
TOTAL														

MONTH	North Coast			West Coast Vancouver Island						South Coast			
	9	10	30	21	22	23	24	25	26	27	11	12	13
January													
February													
March													
April													
May													
June													
July													
August													
September													
October													
November													
December													
TOTAL													

MONTH	South Coast								
	14	15	16	17	18	19	20	28	29
January									
February									
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									
TOTAL									

note 1. Only retained catch is included.

note 2. See Fig. 1.

“-”: Zero.

Source: Fisheries and Oceans Canada, Pacific Region, Regional Data Unit.

Table 8. Average weights (kg) of salmon in commercial catch in Canada (British Columbia) by species and area, YYYY. [to be modified]

AREA ²	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD
Taku/Stikine						
Taku						
Stikine						
Queen Charlotte <u>Islands</u>						
1						
2 East						
2 West						
North Coast						
3						
4						
5						
6						
7						
8						
9						
10						
30						
West Coast						
Vancouver Island						
21						
22						
23						
24						
25						
26						
27						
South Coast						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
28						
29						

note 1. This table was made using data in Table 5a and Table 6a.

note 2. See Fig. 1.

"-": No catch.

Source: Fisheries and Oceans Canada, Pacific Region, Regional Data Unit.

Table 9. Subsistence catch of salmon in Canada (British Columbia and Yukon) by species and area, in thousands of fish, YYYY. [no change]

Table 10. Sport catch of salmon in Canada (British Columbia) by species and area, in numbers of fish, YYYY. [no change]

Table 11. Releases of Canadian salmon fry and smolts (British Columbia and Yukon) by species and area, in thousands of fish, YYYY. [to be modified with a changed title]

AREA ²	ALL SPECIES	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD
TOTAL ³							
Yukon							
Queen Charlotte Islands							
1							
2 East							
2 West							
North Coast							
3							
4							
4A							
5							
6							
7							
8							
9							
10							
30							
West Coast							
Vancouver Island							
21							
22							
23							
24							
25							
26							
27							
South Coast							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
28							
29A							
29B							
29C							
29D							
29E							
Interior B.C.							
29F							
29G							
29I							
29J							
29K							

note 1. Includes data from hatcheries and manned channels under the direction of Habitat and Enhancement Branch, DFO.

Does not include habitat restoration projects (unmanned channels, improved rearing areas, etc.) or Lake Enrichment projects.

Does not include First Nations projects funded by Aboriginal Fisheries Strategy.

note 2. See Fig. 1.

note 3. Discrepancies between actual sums of component figures and totals given are due to rounding.

“-”: No releases.

“NA”: Not available.

Source: Fisheries and Oceans Canada, Pacific Biological Station.

Table 12. Commercial salmon catch in Japan by species, in thousands of fish, YYYY. [no change]

Table 13. Commercial salmon catch in Japan by species, in tonnes (round weight), YYYY. [no change]

(The present Table 14 “Commercial salmon catch in Japan by species and month, in tonnes, YYYY” to be deleted.)

Table 14. Average weights (kg) of salmon in commercial catch in Japan by species, YYYY. [same as the present Table 15.]

Table 15. Hatchery releases of Japanese salmon fry and smolts by species, in thousands of fish, YYYY. [same as the present Table 16]

Table 16. Commercial salmon catch in the Republic of Korea, in thousands of fish, YYYY. [new table]

AREA	ALL SPECIES	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
REPUBLIC OF KOREA (within EEZ)								

Source: Ministry of Maritime Affairs and Fisheries, Republic of Korea.

Table 17. Commercial salmon catch in the Republic of Korea, in tonnes (round weight), YYYY. [new table]

AREA	ALL SPECIES	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
REPUBLIC OF KOREA (within EEZ)								

Source: Ministry of Maritime Affairs and Fisheries, Republic of Korea.

Table 18. Average weights (kg) of salmon in commercial catch in the Republic of Korea, YYYY. [new table]

AREA	SOCKEYE	PINK	CHUM	COHO	CHINOOK	STEELHEAD	CHERRY
REPUBLIC OF KOREA (within EEZ)							

note 1. This table was made using data in Table 17 and Table 18.

Source: Ministry of Maritime Affairs and Fisheries, Republic of Korea.

Table 19. Hatchery releases of Korean salmon fry and smolts by species, in thousands of fish, YYYY. [new table]

AREA	CHUM	CHERRY
REPUBLIC OF KOREA		

Source: Ministry of Maritime Affairs and Fisheries, Republic of Korea.

Table 20. Commercial salmon catch in Russia (Far East) by species, in thousands of fish, YYYY. [same as the present Table 17.]

Table 21. Commercial salmon catch in Russia (Far East) by species, in tonnes (round weight), YYYY. [same as the present Table 18.]

(The present Table 19 “Commercial salmon catch in Russia (Far East) by species and month, in numbers of fish, YYYY” to be deleted.)

Table 22. Average weights (kg) of salmon in commercial catch in Russia (Far East) by species, YYYY. [same as the present Table 20.]

Table 23. Subsistence catch of salmon in Russia (Far East) by species, in numbers of fish, YYYY. [same as the present Table 21.]

Table 24. Sport catch of salmon in Russia (Far East) by species, in numbers of fish, YYYY. [same as the present Table 22.]

Table 25. Hatchery releases of Russian salmon fry and smolts (Far East) by species, in thousands of fish, YYYY. [the title to be changed from the present Table 23.]

Table 26. Commercial salmon catch in the United States by species and area, in thousands of fish, YYYY. [same as the present Table 24.]

Table 27. Commercial salmon catch in the United States by species and area, in tonnes (round weight), YYYY. [same as the present Table 25.]

(The present Table 26 “Commercial salmon catch in Washington, Oregon, California, and Idaho by species, area, and month, in numbers of fish, YYYY” to be deleted.)

Table 28. Average weights (kg) of salmon in commercial catch in the United States by species and area, YYYY. [same as the present Table 27.]

Table 29. Subsistence catch of salmon in the United States by species and area, in numbers of fish, YYYY. [same as the present Table 28.]

Table 30. Sport catch of salmon in the United States by species and area, in numbers of fish, YYYY. [same as the present Table 29.]

Table 31. Hatchery releases of the United States salmon fry and smolts by species and area, in millions of fish, YYYY. [the title to be changed from the present Table 30.]

(The present Table 31 “Salmon catch by the Republic of Korea in adjacent waters by species, in tonnes (round weight), 1993-YYYY” to be deleted.)

(The present Table 32 “Hatchery releases of salmon fry by the Republic of Korea, in thousands of fish, 1967-YYYY” to be deleted.)

(to be continued)

Table 32. Catch of groundfish, pelagic fish, sharks, skates and dogfish, shrimp, crab, squids and octopus, and other species by Canada and the United States, by area, in tonnes (round weight), YYYY. [The present Table 33 to be modified]

	(Canada and the U.S.) TOTAL CATCH	CANADA ¹			Vancouver			Unknown		
		TOTAL	Charlotte	JV ²	TOTAL	Domestic	JV ²	TOTAL	Domestic	JV ²
ALL SPECIES										
GROUNDFISH TOTAL										
SABLEFISH										
HALIBUT										
FLATFISH TOTAL										
Alaska plaice										
Arrowtooth flounder										
Dover sole										
English sole										
Flathead sole										
Greenland turbot										
Petrale sole										
Rex sole										
Rock sole										
Starry flounder										
Yellowfin sole										
Other flatfish										
ROCKFISH TOTAL										
Pacific ocean perch										
Thornyhead										
Other rockfish										
ATKA MACKEREL										
PACIFIC COD										
LINGCOD										
POLLOCK										
PACIFIC HAKE										
OTHER GROUNDFISH										
PELAGIC FISH TOTAL										
COASTAL PELAGIC FISH TOTAL										
Chub mackerel										
Herring										
Jack mackerel										
Mackerel (unspecified)										
Anchovy										
Pacific sardine										
TUNAS, BONITOS, AND BILLFISH TOTAL										
Albacore										
Pacific bonito										
Other tunas, bonitos, and billfish										
SHARKS, SKATES, AND DOGFISH										
OTHER FISH										
SHRIMP ³										
CRAB TOTAL										
King crab (unspecified)										
Red king crab										
Blue king crab										
Brown king crab										
Golden king crab										
Scarlet king crab										
Tanner crab (unspecified)										
Tanner crab (bairdi)										
Tanner crab (opilio)										
Dungeness crab										
Rock crab										
Other crabs ⁴										
SQUIDS AND OCTOPUS										
OTHER MARINE INVERTEBRATES										

Table 32 continued on page XX.

Table 32. continued. [The present Table 33 to be modified.]

	UNITED STATES TOTAL	Bering Sea/ ALEutians	Gulf of Alaska	Washington	Oregon	California	Unknown U.S.
ALL SPECIES							
GROUNDFISH TOTAL							
SABLEFISH							
HALIBUT							
FLATFISH TOTAL							
Alaska plaice							
Arrowtooth flounder							
Dover sole							
English sole							
Flathead sole							
Greenland turbot							
Petrale sole							
Rex sole							
Rock sole							
Starry flounder							
Yellowfin sole							
Other flatfish							
ROCKFISH TOTAL							
Pacific ocean perch							
Thornyhead							
Other rockfish							
ATKA MACKEREL							
PACIFIC COD							
LINGCOD							
POLLOCK							
PACIFIC HAKE							
OTHER GROUNDFISH							
PELAGIC FISH TOTAL							
COASTAL PELAGIC FISH							
Chub mackerel							
Herring							
Jack mackerel							
Mackerel (unspecified)							
Anchovy							
Pacific sardine							
TUNAS, BONITOS, AND BILLFISH TOTAL							
Albacore							
Pacific bonito							
Other tunas, bonitos, and billfish							
SHARKS, SKATES, AND DOGFISH							
OTHER FISH							
SHRIMP ³							
CRAB TOTAL							
King crab (unspecified)							
Red king crab							
Blue king crab							
Brown king crab							
Golden king crab							
Scarlet king crab							
Tanner crab (unspecified)							
Tanner crab (bairdi)							
Tanner crab (opilio)							
Dungeness crab							
Rock crab							
Other crabs ⁴							
SQUIDS AND OCTOPUS							
OTHER MARINE VERTEBRATES							

note 1. Canadian figures are preliminary.

note 2. JV = Joint-venture.

note 3. Shrimp includes prawn.

note 4. Other crabs include unspecified crabs.

"NA": Not Available.

"-": No catch.

"0": More than zero but less than 0.5 tonnes.

Sources: Fisheries and Oceans Canada, Pacific Region, Regional Data Unit.

NMFS Alaska Regional Office (data of Alaska), Pacific States Marine Fisheries Commission (data of Washington, Oregon and California).

Table 33. Total catch of principal fish, crustacean, cephalopod and other species by the Republic of Korea in the North Pacific, in tonnes (round weight), YYYY. [new table]

	TOTAL CATCH	North Pacific	
		Within EEZ ¹	Distant Waters ²
ALL SPECIES			
FISH TOTAL			
Conger eel			
Anchovy			
Pacific saury			
Pacific cod			
Walleye pollock			
Angler			
Mullet			
Horse mackerel			
Japanese amberjack			
Redlip croaker			
Other croakers			
Mackerels			
Hairtail			
Pomfret			
Flatfishes			
Other fishes			
CRUSTACEAN TOTAL			
Crabs			
Shrimps			
Other crustaceans			
CEPHALOPOD TOTAL			
Squids			
Other cephalopods			
OTHER SPECIES			

Sources: ¹Ministry of Maritime Affairs and Fisheries, Republic of Korea, and ²Korea Deep Sea Fisheries Association.

Table 34. Monthly catch of the Republic of Korea's adjacent waters fisheries by species, in tonnes, YYYY. [same as the present Table 36.]

Table 35. Commercial catch of Poland in the North Pacific waters¹, by species, in tonnes, XXXX-YYYY. [same as the present Table 34.]

Table 36. Catch of the People's Republic of China in the North Pacific waters, by species, in tonnes, YYYY. [same as the present Table 35.]

(The present Table 37 "Catch of the Republic of Korea's distant waters fisheries by species, in tonnes, YYYY" to be deleted.)

Table 37. Commercial catch by Taiwan in the North Pacific Ocean, by species, in tonnes, 1977-YYYY. [same as the present Table 38.]