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TAG RETURNS IN 1984 -
UNITED STATES HIGH SEAS SALMON TAGGING

by

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TAG RETURNS IN 1984 -
UNITED STATES HIGH SEAS SALMON TAGGING

This document reports all recoveries of U.S. and U.S.-U.S.S.R. high seas salmon tags returned between 1 October 1983 and 30 September 1984. There were 22 returns, from releases in 1982 (1), 1983 (20) and 1984 (1). Tagging in 1982 was done on 2 U.S. research vessels assigned to work primarily in waters southwest of 46°N, 175°W, although the present return resulted from tagging done in INPFC area 8050 near the end of the sampling season. Tagging in 1983 and 1984 was done on the NPS Nemirov, a seine vessel used by the U.S.S.R.'s Pacific Scientific Research Institute of Fisheries and Oceanography (TINRO) for U.S.S.R.-U.S. cooperative high seas salmonid research.

The 22 returns are listed in Table 1 (part A, 1 recovery from 1984 releases; part B, 1 recovery from 1982 releases; part C, 20 additional 1983 recoveries from 1983 releases).

The 1984 recoveries were both of sockeye salmon. One was caught by a Japanese mothership fishery catcherboat not far northwest from the release site, only 11 days later. The other was a Bristol Bay recovery resulting from a release of an age 1.1 fish just south of Adak Island, INPFC area 8050, in mid-July 1982.

The 20 additional 1983 recoveries from 1983 releases were reported by the Japan Fisheries Agency through INPFC channels, directly by an individual in Japan, and by TINRO through the U.S.-U.S.S.R. bilateral forum. The returns consisted of 17 chum salmon and 3 pink salmon. The pink salmon were all released in area E7548 from 21 to 27 June, and

were recovered in the East Kamchatka/Karaginsky district of the U.S.S.R. One of the chum salmon was recovered in the Icha River of West Kamchatka, from a release in area E7548. All of the other chum returns were from Japan, and resulted from releases in the North Pacific Ocean and Bering Sea in areas E7546, E7548, E7552, E7554, and E7556. The Japanese recoveries were from a number of locations, including the Pacific coast of Honshu, and the Okhotsk, Pacific, Japan Sea, and Nemuro Strait coasts of Hokkaido. Five of the recoveries, including both of those reported from Honshu, were made by either gillnet or longline gear fished just offshore, and therefore may represent intercepted migrating salmon bound for other terminal areas. The recoveries clearly indicate a broad north-south distribution of maturing chum of Japanese hatchery origin. The fact that the release dates for tags recovered from North Pacific releases were earlier than for those from Bering Sea releases is an artifact of sampling, since the Nemirov sampled first south of the Aleutian Islands and then moved into the Bering Sea in late June.

Table 1. Release and recovery information for U.S. or U.S.-U.S.S.R. tags returned 1 October 1983 to 30 September 1984.

Tag no.	Species	Release/recovery	Date (mo/day)	INPFC area ¹	N. lat. (°-')	Long. (°-')	Gear	Set no.	Age	Fork length (mm)	Sex	Body weight (kg)	Remarks
PART A: 1984 recoveries of 1984 releases													
J-633	Sockeye	Release Recovery	07/03 07/14	E7548 32-	49-47 50-50	177-40E 173-26E	Seine Gillnet	N-32 --	2.3 --	590 650	-- --	-- --	Caught by mother- ship fishery catcherboat
PART B: 1984 recoveries of 1982 releases													
K-910	Sockeye	Release Recovery	07/15 07/09	8050 47-0	50-23 58-45	176-32W 157-10W	Seine Commercial	L-51 --	1.1 --	390 --	-- --	-- --	Naknek section, Bristol Bay
PART C: Additional 1983 recoveries of 1983 releases													
I-244	Chum	Release Recovery	06/01 09/15	E7546 02-3	46-21 45-10	179-07E 141-15E	Seine Gillnet	N-10 --	0.32/ --	500 550	-- M	-- 1.40	W. side Rishiri Is. ω
I-281	Chum	Release Recovery	06/15 11/30	E7546 02-1	47-02 42-33	178-43E 140-22E	Seine Trap	N-14 --	0.2 --	470 --	-- M	-- --	Asahi Beach, Oshamanbe
I-396	Chum	Release Recovery	06/19 09/23	E7548 02-1	48-24 43-02	175-38E 144-51E	Seine Trap	N-19 --	0.2 --	480 550	-- --	-- 1.60	Near Akkeshi
I-482	Chum	Release Recovery	06/20 09/13	E7548 09-0	49-19 55-37	176-35E 155-50E	Seine --	N-22 --	0.3 --	540 --	-- F	-- 3.00	Icha River, W. Kamchatka
I-601	Pink	Release Recovery	06/21 07/26	E7548 12-1	48-36 58-20	177-19E 162-05E	Seine --	N-24 --	0.1 --	415 415	-- M	-- 0.92	Rusakova R., Karaginsky Bay

Table 1. Release and recovery information for U.S. or U.S.-U.S.S.R. tags returned 1 October 1983 to 30 September 1984 - continued.

Tag no.	Species	Release/recovery	Date (mo/day)	INPFC area ¹	N. lat. (°-')	Long. (°-')	Gear	Set no.	Age	Fork length (mm)	Sex	Body weight (kg)	Remarks
I-603	Pink	Release Recovery	06/21 08/20	E7548 12-2	48-36 59-55	177-19E 164-00E	Seine --	N-24 --	0.1 --	440 --	-- --	-- --	Uala Bay, Karaginsky
I-668	Chum	Release Recovery	06/25 10/10	E7548 02-1	49-47 42-43	179-36E 143-48E	Seine Trap	N-29 --	0.3 0.3	490 ^{3/} 570 ^{3/}	-- M	-- 2.80	Near Urahoro, Tokachi R.
I-905	Pink	Release Recovery	06/27 07/21	E7548 10-1	49-58 53-40	175-09E 159-50E	Seine Set net	N-36 --	0.1 --	375 380	-- M	-- 0.57	Zhupanova R.
I-959	Chum	Release Recovery	06/28 09/23	E7552 02-0	53-13 44-04	175-31E 145-12E	Seine Trap	N-38 --	0.3 --	520 --	-- --	-- --	Rausu, Hokkaido
I-963	Chum	Release Recovery	06/28 09/24	E7552 02-3	53-13 44-34	175-31E 141-43E	Seine Gillnet	N-38 --	0.3 ^{2/} --	500 540	-- F	-- 1.90	Near Shosanbetsu
J-034	Chum	Release Recovery	07/03 Autumn	E7554 02-0	54-02 43-40	175-30E 145-10E	Seine Trap	N-50 --	0.2 0.2	490 500	-- M	-- 1.60	Near Shibetsu
J-037	Chum	Release Recovery	07/03 10/--	E7554 02-1	54-02 41-55	175-30E 143-13E	Seine --	N-50 --	0.4 --	510 --	-- --	-- --	Off Cape Erimo
J-041	Chum	Release Recovery	07/03 12/06	E7554 01-0	54-02 40-11	175-30E 141-46E	Seine Longline	N-50 --	0.3 --	550 550	-- M	-- 1.50	Off Misaki, near Kuji, Honshu
J-110	Chum	Release Recovery	07/17 11/28	E7556 01-0	57-34 39-32	179-39E 142-06E	Seine Longline	N-66 --	0.2 --	495 --	-- M	-- 2.10	Honshu, off Cape Todogasaki

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Tag no.	Species	Release/ recovery	Date (mo/day)	INPFC area ¹	N. lat. (°-')	Long. (°-')	Gear	Set no.	Age	Fork length (mm)	Sex	Body weight (kg)	Remarks
J-172	Chum	Release Recovery	07/21 10/07	E7556 02-2	57-11 44-23	178-14E 143-22E	Seine Trap	N-71 --	0.3 --	595 ^{3/} 460 ^{3/}	-- F	-- 2.10	Monbetsu
J-331	Chum	Release Recovery	07/29 10/12	E7556 02-2	57-11 44-58	176-09E 142-38E	Seine Trap	N-87 --	0.2 --	500 --	-- --	-- --	Esashi, Hokkaido
J-338	Chum	Release Recovery	07/29 10/15	E7556 02-3	57-17 43-14	175-47E 140-47E	Seine Gillnet	N-88 --	0.2 --	540 --	-- --	-- --	Near Yoichi, Hokkaido
J-352	Chum	Release Recovery	07/29 10/06	E7556 02-2	57-26 44-34	175-17E 143-00E	Seine Trap	N-90 --	0.3 --	630 ^{3/} 570 ^{3/}	-- F	-- 3.00	Oomu, Hokkaido
J-379	Chum	Release Recovery	07/30 10/21	E7556 02-3	57-34 42-45	175-21E 141-25E	Seine --	N-92 --	0.3 --	650 675	-- F	-- 2.95	Nishikoshi, Chitose R.
J-414	Chum	Release Recovery	07/30 10/25	E7556 02-1	57-40 42-07	175-24E 142-57E	Seine Trap	N-95 --	0.3 --	620 630	-- F	-- --	Fuyujima, Samani Trap

^{1/}2° x 5° release area; general and sub-area recovery area codes.

^{2/}Scale regenerated; age estimated from length.

^{3/}Either release or recovery length is in error.

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