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REPORT OF INCIDENCE OF CODED-WIRE TAGGED SALMONIDS
IN CATCHES OF FOREIGN COMMERCIAL AND RESEARCH VESSELS
OPERATING IN THE NORTH PACIFIC OCEAN AND BERING SEA
DURING 1983-1984

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REPORT OF INCIDENCE OF CODED-WIRE TAGGED SALMONIDS
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INTRODUCTION

During the annual meeting of the International North Pacific Fisheries Commission (INPFC) in Anchorage, Alaska, in November 1980, a representative from the Pacific Marine Fisheries Commission (PMFC) requested the INPFC coordinate efforts to examine potentially coded-wire tagged salmonids in convention waters. The matter was referred to the standing Committee on Biology and Research which subsequently referred the matter to the subcommittee on salmon. The following are excerpts from the reports of the two groups which appeared in the Proceedings of the 27th Annual Meeting.

Subcommittee on Salmon

"In response to a request from the Pacific Marine Fisheries Commission and subsequent recommendation by this subcommittee to accommodate that request, the United States will greatly increase efforts to examine salmonids sampled on the high seas for missing adipose fins which may indicate the presence of coded-wire tags. U.S. observers on board motherships, foreign trawl and longline vessels, as well as on U.S. salmon research vessels will insofar as possible examine salmonids caught purposely or incidentally for missing adipose fins, and return snouts of these fish and accompanying recovery information in accordance with procedures to be determined at the upcoming meeting of the Ad Hoc Salmon Research Coordinating Group."

Standing Committee on Biology and Research

"The subcommittee considered a request from the Pacific Marine Fisheries Commission of the United States for Japanese salmon research vessels to examine routinely all catches for adipose fin clips that may indicate the presence of coded-wire tags. It was agreed that such

cooperation in coded-wire tag recovery effort could lead to significant new information on ocean distributions of salmonids. The subcommittee, therefore, RECOMMENDED that the appropriate research and observer programs of all three national sections include efforts, insofar as possible, to examine catches for salmonids missing the adipose fin. The committee ENDORSES this recommendation." During early March 1981, the Ad Hoc Salmon Research Coordinating Group of the Subcommittee on salmon met in Tokyo and discussed procedures for sampling. Dahlberg (1981) described the procedures agreed to by member countries.

This report summarizes the results of sampling by U.S. observers on board Japanese salmon motherships in 1983, by Japanese and U.S. scientists on board Japanese research vessels from January 1982-August 1983, and by U.S. observers on board foreign groundfish vessels operating off the U.S. Pacific coast from January 1982-August 1983. Dahlberg (1981, 1982) and Wertheimer and Dahlberg (1984) summarized coded-wire tag recoveries in these fisheries for 1980 and 1981 and 1982, and presented partial information for 1983. The tables of coded-wire tags in this report include and complete the partial listings of recoveries for 1983 given in Wertheimer and Dahlberg (1983).

Japanese Mothership Fishery

U.S. observers onboard Japanese salmon motherships examined 18,549 salmon for missing adipose fins in 1984 (Table 1). Only one chinook salmon without an adipose fin was recovered; it did not have a coded-wire tag. For the first time since the inception of the observer program in 1978, catcher boats were requested to return steelhead to the motherships for sampling by the observers. The observers examined 497 steelhead and found ten fish with missing adipose fins (Table 1). Frozen samples of whole fish, including those with missing adipose fins, were returned to Seattle for further biological studies. We have not yet received the heads from those without adipose fins; coded-wire tag recoveries from these fish will be reported in a subsequent document.

Japanese Research Vessels

Nine steelhead and two sockeye salmon without adipose fins were recovered on Japanese research vessels in 1983; coded-wire tags were detected in five of the steelhead. To date in 1984, an additional eleven coded-wire tags have been recovered from steelhead landed on Japanese research vessels.

Release and recovery data for all coded-wire tags recovered from Japanese research vessels in 1983 and through August 1984 are included in Table 6 (steelhead trout). One tag represents a westward range extension for North American steelhead trout. The tag (Agency 23, Data 16/01) was from a steelhead released in the Columbia River and recovered at 42°51'N latitude, 167°32'E longitude (Table 6).

Foreign Groundfish Fishery

In calendar year 1983, U.S. groundfish observers examined 14,850 salmon for missing adipose fins; 43 were found to have missing adipose fins (Table 2). From these samples, 40 tags were detected and decoded, including 38 from chinook salmon and two from coho salmon (Table 2). Through July 1984, an additional 54 tags have been recovered from salmon sampled on foreign groundfish vessels, including 44 chinook salmon and 10 from coho salmon.

Release and recovery data for all coded-wire tags recovered in the foreign groundfish fishery in 1983 as well as those recovered through July 1984 are shown in Table 4 (chinook salmon) and Table 5 (coho salmon). Several tags represent range extensions into the Bering Sea for chinook salmon stocks from particular regions of the eastern Pacific rim. A tag (Agency 60, Data 33/42) from Yaquina Bay on the Oregon coast, was recovered in 1983 from a fish sampled at 54°39'N latitude, 166°13'W longitude (Table 5). Another Oregon tag (Agency 07, 24/20) from a fish released in the Willamette River was recovered in 1984

at 54°50'N latitude, 165°12'W longitude. Two tags were recovered in 1984 in the Bering Sea from fish released in southeastern Alaska: one from Little Port Walter (Agency 03, 17/16), recovered at 54°51'N latitude, 165°26'W longitude; and one from the Stikine River (Agency 04, 17/26), recovered at 54°40'N latitude, 165°21'W longitude (Table 4).

REFERENCES

- Pacific Marine Fisheries Commission Regional Mark Processing Center. 1984. Releases of coded-wire tagged salmon and steelhead from Pacific coast streams through 1983. 145 p.
- Dahlberg, M. L. 1981. Report of incidence of coded-wire tagged salmonids in catches of foreign commercial and research vessels operating in the North Pacific Ocean during June and July 1980-1981. (Document submitted to annual meeting of the International North Pacific Fisheries Commission, Vancouver, British Columbia, Canada, November 1981. 6 pp. Northwest and Alaska Fisheries Center, National Marine Fisheries Service., National Oceanic Atmospheric Administration, Auke Bay Laboratory, P. O. Box 155, Auke Bay, Alaska 99821.)
- Dahlberg, M. L. 1982. Report of incidence of coded-wire tagged salmonids in catches of foreign commercial and research vessels operating in the North Pacific Ocean and Bering Sea 1980-1982. (Document submitted to annual meeting of the International North Pacific Fisheries Commission, Tokyo, Japan, November 1982. 11 pp. Northwest and Alaska Fisheries Center, National Marine Fisheries Service., National Oceanic Atmospheric Administration, Auke Bay Laboratory, P. O. Box 155, Auke Bay, Alaska 99821.)

Wertheimer, A. C. and M. L. Dahlberg. Report of incidence of coded-wire tagged salmonids in catches of foreign commercial and research vessels operating in the North Pacific Ocean and Bering Sea during 1982-1983. (Document submitted to annual meeting of the International North Pacific Fisheries Commission, Tokyo, Japan, November 1983. 5 pp. Northwest and Alaska Fisheries Center, National Marine Fisheries Service, National Oceanic Atmospheric Administration, Auke Bay Laboratory, P. O. Box 155, Auke Bay, Alaska 99821.)

Table 1.--Incidence of coded-wire tagged salmonids in landings of salmon observed by U.S. observers on board Japanese salmon motherships within the U.S. FCZ in 1984.

<u>Number of Fish:</u>	<u>Species</u>						<u>Total</u>
	<u>Sockeye</u>	<u>Chum</u>	<u>Pink</u>	<u>Coho</u>	<u>Chinook</u>	<u>Steelhead</u>	
Examined	3,181	3,738	2,913	3,247	5,470	497	19,046
Missing adipose fin	-	-	-	-	1	10	11
Coded-wire tagged	0	0	0	0	0	N/A	N/A

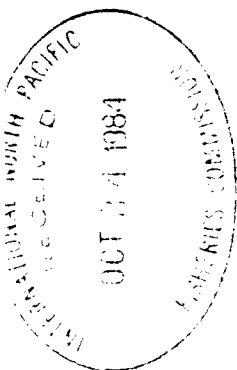


Table 2.--Incidence of coded-wire tagged salmonids in the incidental catch of salmon sampled by U.S. observers on board foreign groundfish vessels within the U.S. FCZ in 1983¹

Number of Fish:	Species					Total
	Sockeye	Chum	Pink	Coho	Chinook	
WASHINGTON, OREGON, CALIFORNIA						
Examined	3	14	91	333	1,765	2,206
Missing adipose fin	0	0	0	2	30	32
Coded-wire tagged	0	0	0	2	29	31
GULF OF ALASKA						
Examined	24	915	3	39	2,675	3,656
Missing adipose fin	0	0	0	0	9	9
Coded-wire tagged	0	0	0	0	8	8
BERING SEA, ALEUTIANS						
Examined	6	5,875	4	26	3,077	8,988
Missing adipose fin	0	0	0	0	2	2
Coded-wire tagged	0	0	0	0	1	1

¹ Source: J. Wall, National Marine Fisheries Service, Northwest and Alaska Fisheries Center, personal communication.

Table 7.--Incidence of coded-wire tagged salmonids in landings of salmon observed by Japanese and U.S. scientists on Japanese research vessels in the North Pacific Ocean and Bering Sea in 1983.

Number of Fish:	Species						Total
	Sockeye	Chum	Pink	Coho	Chinook	Steelhead	
Examined	35,907	58,138	87,653	7,794	979	523	190,994
Missing adipose fin	0	0	0	0	0	2	2
Coded-wire tagged	0	0	0	0	0	2	2

Table 3.--Abbreviations of tagging agencies which released coded-wire tagged salmonids recovered in foreign commercial and research vessel catches, January 1983 to July 1984.

Tagging agency code	Agency name
ADFG	Alaska Department of Fish and Game
ANAD	Anadromous, Inc.
BCFW	British Columbia Fish and Wildlife
BHSR	Burnt Hill Salmon Ranch
CDFG	California Department of Fish and Game
CFSO	Canada Department of Fisheries and Oceans - Operations
ELWA	Elwah Indian Tribe
FWS	U.S. Fish and Wildlife Service
IDFG	Idaho Department of Fish and Game
NMFS	National Marine Fisheries Service
OAF	Oregon Aqua-Foods, Inc.
ODFW	Oregon Department of Fish and Wildlife
QDNR	Quinault Department Natural Resources
SSRA	Southern Southeast Alaska Aquaculture Association
SUQ	Suquamish Indian Tribe
WDF	Washington Department of Fisheries
WDG	Washington Department of Game

Table 4.--Release and recovery information for coded-wire tagged chinook salmon recovered from the North Pacific Ocean in 1983 and 1984. TSFT = fish length measured from tip of snout to fork of tail; -- = not available; Res. gillnet = research gillnet; Com. gillnet = commercial gillnet.

RELEASE ¹										RECOVERY						
Tag code:										Length	Body	Gonad				
AGENCY	DATA 1	DATA 2	Brood year	Release site	State or Province	Last		Agency ²	Date	Latitude		TSFT	weight	weight	Sex	Gear
						month	Number			N	Longitude	(mm)	(g)	(g)		
- 1983-																
02 18 41	1980			Little Nitnat River	Brit. Col.	5/81	78,857	CFSO	3/16	56°51'	155°55'W	---	1,300	-	F	Trawl
02 20 01	1979			Kitimat River	Brit. Col.	5/80	39,114	CFSO	2/20	57°37'	155°12'W	800	7,000	10	M	Trawl
02 21 63	1981			Chilliwack River	Brit. Col.	6/82	74,018	CFSO	8/26	48°26'	125°03'W	500	1,440	--	M	Trawl
02 22 04	1981			Nitnat River	Brit. Col.	6/82	86,435	CFSO	12/10	54°58'	158°08'W	---	---	--	M	Trawl
04 20 39	1979			Ketchikan Creek	Alaska	5/81	15,204	ADFG	2/03	57°47'	154°08'W	542	1,720	-	M	Trawl
05 06 48	1979			Columbia River	OR-WA Border	5/80	102,928	NMFS	6/18	47°25'	124°48'W	920	8,900	20	M	Trawl
05 07 46	1980			Columbia River	OR-WA Border	4/81	150,544	FWS	7/22	48°20'	124°54'W	550	2,200	10	-	Trawl
05 10 23	1981			Lower Granite Dam	Washington	6/82	80,425	IDFG	7/29	47°19'	124°40'W	470	1,250	-	F	Trawl
05 10 47	1981			Grovers Creek	Washington	5/82	47,471	SUQ	8/27	48°17'	124°56'W	460	1,000	-	M	Trawl
05 10 51	1981			Columbia River	Washington	4/82	38,854	NMFS	8/29	48°10'	124°56'W	580	1,350	-	F	Trawl
05 10 55	1981			Columbia River	Washington	4/82	41,295	FWS	10/55	46°44'	124°32'W	460	1,050	--	F	Trawl
06 42 02	1980			Mad River	California	5/81	22,986	CDFG	9/19	48°07'	125°06'W	750	5,200	--	M	Trawl
06 58 21	1980			San Francisco Bay	California	6/81	46,271	CDFG	5/16	45°31'	124°21'W	520	1,700	<10	M	Trawl
06 58 25	1980			Vallejo	California	8/81	43,103	CDFG	5/16	45°30'	124°28'W	630	4,400	50	F	Trawl
06 60 19	1980			Sacramento River	California	2/81	49,766	CDFG	5/08	44°41'	124°34'W	690	4,400	<10	M	Trawl
06 60 30	1981			Sacramento River	California	5/82	44,735	CDFG	8/01	47°31'	124°49'W	460	1,150	--	-	Trawl
06 60 31	1981			Sacramento River	California	5/82	44,540	CDFG	7/12	47°16'	124°40'W	460	1,500	10	F	Trawl
06 61 09	1979			Trinity River	California	10/80	90,995	CDFG	7/09	47°30'	124°48'W	710	4,200	40	M	Trawl
06 61 21	1980			Trinity River	California	9/81	104,160	CDFG	5/19	45°49'	124°40'W	620	3,200	<20	F	Trawl

Table 4.--continued.

RELEASE ¹													RECOVERY			
Tag code:																
AGENCY	DATA 1	DATA 2	Brood	Release site	State or Province	Last		Agency ²	Date	Latitude		Length TSFT (mm)	Body weight (g)	Gonad weight (g)	Sex	Gear
						month planted	Number tagged			N	Longitude					
07	22	41	1979	Suislaw River	Oregon	10/80	24,096	ODFW	10/03	55°19'	156°34'W	730	4,600	50	M	Trawl
07	23	05	1979	Willamette River	Oregon	3/81	29,928	ODFW	2/03	57°52'	154°00'W	519	1,430	10	F	Trawl
07	24	10	1981	Big Creek	Oregon	6/82	96,798	ODFW	8/26	48°22'	124°51'W	445	1,050	-	-	Trawl
07	24	20	1980	Willamette River	Oregon	3/82	29,505	ODFW	10/24	54°50'	157°56'W	510	1,760	--	F	Trawl
07	25	09	1980	Rogue River	Oregon	9/81	31,297	ODFW	5/19	45°51'	124°39'W	500	2,400	-	F	Trawl
07	25	12	1980	Rogue River	Oregon	10/81	31,966	ODFW	8/07	44°32'	124°42'W	590	2,800	--	M	Trawl
07	25	14	1980	Rogue River	Oregon	8/81	30,076	ODFW	5/19	45°51'	124°39'W	---	1,400	-	F	Trawl
07	25	39	1980	Chetco River	Oregon	9/81	27,190	ODFW	6/20	47°38'	124°54'W	580	2,500	-	M	Trawl
07	25	40	1980	Chetco River	Oregon	11/81	27,910	ODFW	6/08	45°00'	124°15'W	480	1,500	<10	M	Trawl
07	26	62	1981	Willamette River	Oregon	5/82	265,797	ODFW	9/08	48°23'	124°54'W	470	1,300	--	M	Trawl
10	25	35	1981	Upper Salmon River	Idaho	3/83	51,450	IDFG	11/11	58°12'	148°47'W	360	600	--	M	Trawl
60	33	42	1979	Yaquina Bay	Oregon	11/80	21,744	OAF	11/07	54°39'	166°13'W	790	6,200	50	F	Trawl
60	33	59	1980	Coos Bay	Oregon	9/81	16,682	OAF	8/15	48°17'	125°03'W	610	2,400	--	F	Trawl
63	19	44	1979	Big Soos Creek	Washington	5/80	119,913	WDF	7/03	47°37'	125°00'W	760	5,210	-	F	Trawl
63	20	05	1979	Elokamin River	Washington	6/80	20,500	WDF	7/03	47°37'	125°00'W	750	4,980	-	F	Trawl
63	21	34	1980	Cowlitz River	Washington	4/82	24,014	WDF	7/09	47°29'	124°47'W	520	1,620	<20	M	Trawl
63	22	14	1979	Lewis River	Washington	7/80	26,356	WDF	8/20	48°07'	124°57'W	540	1,900	--	M	Trawl
63	23	01	1981	Chambers Creek	Washington	5/82	43,721	WDF	8/21	48°10'	124°59'W	440	1,050	--	F	Trawl
H6	02	03	1981	Sacramento River	California	2/82	43,248	CDFG	8/10	48°12'	124°59'W	450	1,100	--	M	Trawl

Table 4.--continued.

		RELEASE ¹						RECOVERY							
Tag code:															
AGENCY	DATA 1	DATA 2	Brood	Last	State or	Number	Agency ²	Date	Latitude		Length	Body	Gonad	Sex	Gear
									Province	month					
			year	Release site							(mm)	(g)	(g)		
- 1984 -															
02	16	61	1980	Robertson Creek	British Col.	5/81	151,280	CDFO	3/03	57°44'	154°20'W	630	3,400	--	M
02	16	61	1980	Robertson Creek	British Col.	5/81	151,280	CDFO	2/24	57°21'	155°36'W	620	3,100	1	M
02	18	35	1980	Birkenhead River	British Col.	4/81	65,557	CDFO	3/20	57°57'	154°28'W	670	3,300	1	M
02	19	37	1980	Robertson Creek	British Col.	5/81	19,403	CDFO	2/21	57°53'	154°21'W	730	4,900	5	F
02	21	54	1981	Atnarko River	British Col.	6/82	34,703	CDFO	3/02	57°42'	154°30'W	530	2,300	--	F
02	21	59	1981	Chilliwack River	British Col.	5/82	48,188	CDFO	2/24	57°11'	155°46'W	660	3,800	<10	F
02	21	59	1981	Chilliwack River	British Col.	5/82	48,188	CDFO	3/16	56°41'	155°41'W	600	2,200	1	M
02	22	03	1981	Conuma River	British Col.	6/82	64,484	CDFO	2/25	57°36'	155°21'W	500	1,500	1	F
02	23	05	1981	Sooke River	British Col.	6/82	32,816	CDFO	2/26	57°36'	155°13'W	490	1,420	<10	F
02	23	55	1981	Robertson Creek	British Col.	6/82	15,953	CDFO	3/02	57°37'	154°35'W	560	1,950	<10	M
02	23	56	1981	Robertson Creek	British Col.	6/82	18,549	CDFO	3/25	57°57'	154°30'W	570	1,950	10	F
02	24	05	1981	Robertson Creek	British Col.	6/82	51,797	CDFO	2/22	57°50'	154°43'W	520	1,500	1	M
03	17	16	1979	Little Port Walter	Alaska	6/81	14,498	NMFS	4/12	54°51'	165°26'W	690	4,000	10	F
04	17	26	1979	Stikine River	Alaska	9/80	4,268	ADFG	2/08	54°40'	165°21'W	680	3,700	--	F
04	20	40	1979	Deer Mountain	Alaska	5/81	15,734	ADFG	1/28	56°58'	155°23'W	820	6,500	--	F
04	20	42	1979	Crystal Lake	Alaska	5/81	18,530	ADFG	3/17	56°46'	155°36'W	720	5,900	1	F
04	21	21	1980	Deer Mountain	Alaska	5/82	91,606	ADFG	2/23	57°33'	155°18'W	560	3,400	<10	F
04	21	21	1980	Deer Mountain	Alaska	5/82	91,606	ADFG	3/12	57°58'	155°54'W	541	2,200	--	F
04	21	21	1980	Deer Mountain	Alaska	5/82	91,606	ADFG	2/05	57°11'	155°20'W	472	2,200	10	F
04	21	21	1980	Deer Mountain	Alaska	5/82	91,606	ADFG	3/07	56°46'	155°36'W	600	2,600	1	F
04	21	21	1980	Deer Mountain	Alaska	5/82	91,606	ADFG	2/24	57°21'	155°36'W	630	2,700	1	M
04	22	02	1980	Crystal Lake	Alaska	5/82	56,660	ADFG	3/11	57°13'	155°40'W	560	2,290	10	F
04	40	05	1980	Herring Cove	Alaska	5/82	132,463	SSRA	2/20	57°51'	154°08'W	590	1,430	<10	F
04	40	05	1980	Herring Cove	Alaska	5/82	132,463	SSRA	3/07	57°44'	154°56'W	610	2,790	10	F
04	40	05	1980	Herring Cove	Alaska	5/82	132,463	SSRA	2/21	57°46'	154°12'W	679	4,600	10	M
04	40	05	1980	Herring Cove	Alaska	5/82	132,463	SSRA	2/21	54°06'	157°54'W	730	4,700	10	M

Table 4.--continued.

RELEASE ¹														RECOVERY		
Tag code:														Length	Body	Gonad
AGENCY	DATA 1	DATA 2	Brood		State or	Last		Agency ²	Date	Latitude		TSFT	weight	weight	Sex	Gear
			year	Release site		Province	month			Number	N					
05	10	57	1981	Umatilla River	Oregon	4/82	102,331	NMFS	7/14	47°38'	124°37'W	723	6,100	41	M	
05	11	45	1982	Spring Creek	Washington	4/83	52,282	FWS	7/06	47°10'	124°38'W	410	900	1	F	
06	56	11	1982	Trinity River	California	11/83	21,223	CDFG	7/19	40°56'	124°20'W	398	870	--	M	
06	58	30	1981	Sacramento River	California	7/82	26,291	CDFG	7/07	47°32'	124°34'W	570	2,650	2	M	
06	59	07	1981	Klamath River	California	6/82	159,092	CDFG	5/19	44°01'	124°37'W	470	1,100	<1	M	
07	20	54	1980	McKenzie River	Oregon	3/82	32,518	ODFW	2/26	57°40'	155°14'W	600	2,500	1	M	
07	24	10	1981	Big Creek	Oregon	5/82	131,234	ODFW	7/16	47°33'	124°43'W	723	6,200	250	F	
07	24	19	1980	Willamette River	Oregon	3/82	30,717	ODFW	2/21	57°56'	154°02'W	660	3,750	<10	M	
07	24	20	1980	Willamette River	Oregon	3/82	29,505	ODFW	4/01	54°50'	165°12'W	650	3,200	10	F	
07	27	18	1981	McKenzie River	Oregon	3/83	36,165	ODFW	2/23	57°35'	155°18'W	540	1,400	<10	F	
07	27	24	1981	McKenzie River	Oregon	3/83	29,070	ODFW	2/22	57°54'	154°34'W	520	1,740	<10	M	
07	27	27	1982	Tanner Creek	Oregon	5/83	49,999	ODFW	7/07	47°32'	124°34'W	360	650	1	F	
07	28	44	1982	Rogue River	Oregon	10/83	21,475	ODFW	7/19	40°58'	124°20'W	430	900	<1	F	
07	28	57	1982	Big Creek	Oregon	10/83	47,788	ODFW	7/15	41°11'	124°20'W	391	780	--	F	
07	28	57	1982	Big Creek	Oregon	10/83	47,788	ODFW	7/07	47°32'°	124°34'W	330	480	<1	M	
07	28	58	1982	Big Creek	Oregon	10/83	50,008	ODFW	6/14	45°12'	124°07'W	330	564	--	M	
63	25	05	1981	Cowlitz River	Washington	4/83	73,000	WDF	7/05	47°27'	124°34'W	536	1,950	5	F	
RARE EARTH	--	--	--	Columbia River	Ore-Wash Border	--	--	NMFS	2/05	57°07'	155°25'W	630	3,560	--	F	

^{1/} Release data were obtained from Pacific Marine Fisheries Commission Regional Mark Processing Center.

^{2/} See Table 4 for tagging agencies.

Table 5.--Release and recovery information for coded-wire tagged coho salmon recovered from the North Pacific Ocean in 1983 and 1984. TSPT = fish length measured from tip of snout to fork of tail; -- = not available; Res. gillnet = research gillnet; Com. gillnet = commercial gillnet.

		RELEASE ¹							RECOVERY						
Tag code: AGENCY DATA 1 DATA 2	Brood year	Release site	State or Province	Last month planted	Number tagged	Agency ²	Date	Latitude		Length TSPT (mm)	Body weight (g)	Gonad weight (g)	Sex	Gear	
								N	Longitude						
-1983-															
07 25 50	1980	Cedar River	Oregon	4/82	26,426	ODFW	6/20	47°38'	124°54'W	530	1,700	20	F	Trawl	
63 23 54	1980	Voight Creek	Washington	6/82	11,063	WDF	6/20	47°38'	124°54'W	490	1,540	--	M	Trawl	
-1984-															
02 21 03	1981	West Vancouver	British Col.	5/83	9,018	CDFO	7/7	47°32'	124°34'W	490	1,350	14	F	Trawl	
60 05 49	1982	Newport Oregon	Oregon	6/83	15,144	OAF	7/25	46°46'	124°35'W	531	1,780	10	M	Trawl	
60 36 23	1982	Yaquina Bay	Oregon	6/83	24,223	OAF	7/5	47°27'	124°34'W	536	1,950	5	F	Trawl	
63 25 54	1981	Big Sous Creek	Washington	4/83	24,154	WDF	7/25	46°54'	124°32'W	464	1,070	10	M	Trawl	
63 25 57	1981	Voights Creek	Washington	4/83	21,492	WDF	7/5	47°27'	124°34'W	520	2,450	16	M	Trawl	
63 25 62	1981	Port Gamble	Washington	6/83	30,061	WDF	7/7	47°32'	124°34'W	470	1,200	14	F	Trawl	
63 27 15	1981	Washougal River	Washington	5/83	10,323	WDF	7/16	47°33'	124°43'W	482	1,300	1	M	Trawl	
63 27 25	1981	Big Bear Creek	Washington	5/83	19,672	WDF	7/7	47°32'	124°24'W	530	1,800	12	F	Trawl	
63 27 25	1981	Big Bear Creek	Washington	5/83	19,672	WDF	7/7	47°32'	124°24'W	470	1,250	9	M	Trawl	
63 27 29	1981	Agate Pass	Washington	5/83	30,020	WDF	7/7	47°32'	124°24'W	530	1,900	25	F	Trawl	

¹ Release data were obtained from Pacific Marine Fisheries Commission Regional Mark Processing Center.

² See Table 4 for tagging agencies.

Table 6.--Release and recovery information for coded-wire tagged steelhead salmon recovered from the North Pacific Ocean in 1983 and 1984. TSFT = fish length measured from tip of snout to fork of tail; -- = not available; Res. gillnet = research gillnet; Com. gillnet = commercial gillnet.

RELEASE ¹										RECOVERY				
Tag code:										Length	Body	Gonad		
Brood	State or	Last	Number	Agency ²	Date	Latitude	TSFT	weight	weight	Sex	Gear			
year	Release site	Province	planted	tagged		N	Longitude	(mm)	(g)	(g)				
-1983-														
05 10 25	1980	Clearwater R.	Idaho	5/82	42,500	IDFG	6/25	44°29'	175°36'E	582	1,870		M	Res. gillnet
12 17 53	1982	Robertson Cr.	British Col.	4/83	76,486	BCFW	7/5	55°00'	147°30'W	270	180	1	F	Res. gillnet
23 06 06	1980	Clearwater R.	Idaho	4/82	29,838	NMFS	8/3	48°02'	173°28'E	620	2,640	2	M	Res. gillnet
23 16 01	1980	Columbia R.	Ore-Wash Border	5/82	31,915	NMFS	7/1	42°51'	167°32'E	545	1,938		F	Res. gillnet
WH DB WH	1981	Methow R.	Washington	4/82	25,004	NMFS	8/4	48°30'	171°21'E	655	3,200	3	F	Res. gillnet
-1984-														
04 20 50	1980	Crystal Cr.	Alaska	6/82	17,726	ADFG	7/17	49°45'	173°43'E	772	4,800	-	-	Comm. gillnet
05 11 49	1982	Hoh River	Washington	5/83	42,790	FWS	7/19	52°59'	155°00'W	581	1,820	8	F	Res. gillnet
05 12 60	1982	Elwa River	Washington	5/83	13,342	ELWA	7/22	50°00'	155°00'W	565	1,720	25	M	Res. gillnet
05 13 59	1983	Quinlan H. Lake	Washington	4/83	17,464	QDNR	7/19	53°00'	155°00'W	608	2,100	6	M	Res. gillnet
12 16 09	1981	Englishman R.	British Col.	6/82	9,320	BCFW	7/17	49°45'	173°13'E	683	3,600	-	-	Comm. gillnet
12 17 53	1982	Somass River	British Col.	4/83	76,486	BCFW	7/18	54°00'	155°00'W	602	2,030	11	F	Res. gillnet
12 17 53	1982	Somass River	British Col.	4/83	76,486	BCFW	7/19	53°00'	155°00'W	586	2,240	12	F	Res. gillnet
12 17 53	1982	Somass River	British Col.	4/83	76,486	BCFW	7/19	53°00'	155°00'W	549	1,940	3	M	Res. gillnet
12 18 06	1981	Somass River	British Col.	5/82	9,809	BCFW	7/23	50°05'	173°24'E	753	4,400	-	-	Comm. gillnet
12 19 26	1982	Nicomel River	British Col.	4/83	3,621	BCFW	7/23	49°00'	155°59'W	625	2,860	25	F	Res. gillnet
12 19 41	1982	Nanaimo River	British Col.	5/83	11,935	BCFW	7/21	51°00'	154°59'W	586	1,950	15	M	Res. gillnet
12 19 49	1981	Puntledge River	British Col.	5/82	38,390	BCFW	7/17	49°45'	173°35'E	699	3,800	-	-	Comm. gillnet
12 19 50	1981	Quinsam River	British Col.	5/82	17,405	BCFW	7/18	49°23'	174°51'E	712	4,250	-	-	Comm. gillnet
12 20 17	1982	Cowichen River	British Col.	6/83	17,821	BCFW	7/19	53°00'	155°00'W	532	1,510	2	M	Res. gillnet
12 20 27	1982	Somass River	British Col.	4/83	96,324	BCFW	7/19	53°00'	155°00'W	574	1,940	11	F	Res. gillnet
23 16 39	1981	Col. R./Beacon Rock	Washington	4/83	30,341	NMFS	7/04	44°31'	175°27'E	590	2,300	6	F	Res. gillnet
23 16 40	1981	Col. R./Beacon Rock	Washington	4/83	28,658	NMFS	7/01	44°30'	177°30'E	604	2,450	1	M	Res. gillnet
62 16 39	1982	Stillaguamish River	Washington	5/83	21,605	WDG	7/21	51°00'	154°59'W	503	1,540	14	M	Res. gillnet

¹ Release data were obtained from Pacific Marine Fisheries Commission Regional Mark Processing Center.

² See Table 4 for tagging agencies.

ERRATA

REPORT OF INCIDENCE OF CODED-WIRE TAGGED SALMONIDS
IN CATCHES OF FOREIGN COMMERCIAL AND RESEARCH VESSELS
OPERATING IN THE NORTH PACIFIC OCEAN AND BERING SEA
DURING 1983-1984

Compiled by

Alex C. Wertheimer
and
Michael L. Dahlberg

Submitted to the
INTERNATIONAL NORTH PACIFIC FISHERIES COMMISSION

by the

U.S. NATIONAL SECTION

November 1984

REVISION - DOCUMENT 2841

1. Replace Table 6 with copy attached.
2. Replace Table 2 with copy attached.
3. Insert new Table 7.

Table 6.--Release and recovery information for coded-wire tagged steelhead salmon recovered from the North Pacific Ocean in 1983 and 1984. TSFT = fish length measured from tip of snout to fork of tail; -- = not available; Res. gillnet = research gillnet; Com. gillnet = commercial gillnet.

RELEASE ¹										RECOVERY				
Tag code:										Length	Body	Gonad		
Brood	Release site	State or Province	Last month planted	Number tagged	Agency ²	Date	Latitude N	Longitude	TSFT (mm)	weight (g)	weight (g)	Sex	Gear	
-1983-														
05 10 25	1980	Clearwater R.	Idaho	5/82	42,500	IDFG	6/25	44°29'	175°36'E	582	1,870		M	Res. gillnet
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12 19 41	1982	Nanaimo River	British Col.	5/83	11,935	BCFW	7/21	51°00'	154°59'W	586	1,950	15	M	Res. gillnet
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