



INPFC
DOCUMENT
Sec. No. 2965
Rev. No. 1

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 1984-1985

Michael L. Dahlberg  
and  
Susan Fowler

Submitted to the  
INTERNATIONAL NORTH PACIFIC FISHERIES COMMISSION

by the

U.S. NATIONAL SECTION

November 1985

This paper may be cited in the following manner: M. L. Dahlberg and S. Fowler. 1985. Report of the incidence of coded-wire tagged salmonids in catches of foreign commercial and research vessels operating in the North Pacific Ocean and Bering Sea during 1984-1985. (Document submitted to annual meeting of the International North Pacific Fisheries Commission, Tokyo, Japan, November 1985. 16 pp. Northwest and Alaska Fisheries Center, Natl. Mar. Fish. Serv., Natl. Oceanic Atmos. Admin., Auke Bay Laboratory, P. O. Box 210155, Auke Bay, AK 99821.)

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 1984-1985

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 excerpts from the reports of the two groups 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 1985, by Japanese and U.S. scientists on board Japanese research vessels during January 1984-September 1985, and by U.S. observers on board foreign groundfish vessels operating in the North Pacific Ocean and Bering Sea during January 1984-September 1985. Dahlberg (1981, 1982) and Wertheimer and Dahlberg (1983, 1984) summarized coded-wire tag recoveries in these fisheries for 1980-1983, and presented partial information for 1984. The tables of coded-wire tags in this report include and complete the partial listings of recoveries for 1984 given in Wertheimer and Dahlberg (1984) and include changes made in release information for 1984 data by the release agencies (PMFC 1985).

#### Japanese Mothership Fishery

Four U.S. observers on board Japanese salmon motherships operating in the North Pacific Ocean and Bering Sea examined 50,695 salmonids for missing adipose fins in 1985 (Table 1) compared to 19,046 examined in 1984. Nine chinook, two sockeye, one chum, and one pink salmon without an adipose fin were sampled; none contained tags. For the second consecutive year since the inception of the observer program in 1978, fishing masters on catcher boats were requested to return steelhead to the motherships for sampling by the observers. The observers examined 383 steelhead and found 19 fish missing adipose fins; seven contained coded-wire tags (Table 1).

#### Japanese Research Vessels

Nineteen steelhead trout missing adipose fins were recovered on Japanese research vessels in 1984; coded-wire tags were recovered from 13 (Table 3). In 1985, an additional 14 coded-wire tags were recovered from 30 steelhead landed on Japanese research vessels. One chinook and one coho salmon from sampling in 1985 were missing the adipose fin but did not contain tags.

Release and recovery data for all coded-wire tags recovered from salmonids landed on Japanese research vessels in 1984 and through September 1985 are included in Table 7 (steelhead trout). The recoveries of 1984 steelhead reported in Table 7 are the same as those reported by Wertheimer and Dahlberg (1984). One tag recovered in 1985 represents a second occurrence of Alaska steelhead trout. The tag (Agency 04, Data 22/04) was from a steelhead recovered at 49°28'N latitude, 174°44'E longitude, slightly farther south than the 1984 recovery (Table 7) reported earlier. All 1985 recoveries through September 1985 are reported for the first time.

## Foreign Groundfish Fishery

In calendar year 1984, U.S. groundfish observers examined 64,401 salmon for missing adipose fins; 248 were found to have adipose fins missing (Table 2). From these samples, 214 tags were detected and decoded, including 188 from chinook salmon, 26 from coho salmon, and 1 from a chum salmon (Table 2). Over 4 times as many salmonids were examined by observers in 1984 compared to 1983, and tag recoveries increased from 40 to 214 in calendar year 1984. The greatest increase in tag recovery came from the Gulf of Alaska where only 1 coded-wire-tagged fish was recovered in 1983; a total of 143 were taken in 1984. Tag recovery more than doubled from 31 to 64 along the Pacific coast (Table 2). The Bering Sea-Aleutian area produced seven recoveries in 1984, including the first chum salmon with a coded-wire-tag, compared to only one recovery in 1983. Through September 1985, an additional 45 tags have been recovered from salmon sampled on foreign groundfish vessels, including 41 from chinook salmon and 4 from coho salmon.

Release and recovery data for all coded-wire tags recovered in the foreign groundfish fishery in 1984 as well as those recovered through September 1985 are shown in Table 5 (chinook salmon), Table 6 (coho salmon), and Table 8 (chum salmon). The first recovery of a coded-wire-tagged chum salmon was in the Bering Sea (Table 8). The tag (Agency 02, Data 21/55) was from a fish released near Hoodspout, Washington, and caught August 11, 1984 at 55°22'N latitude, 164°25'W longitude (Table 8). Six tags were recovered in 1984 in the Bering Sea from chinook salmon released during 1980-1983. Two fish originated in Oregon (Willamette River and Alsea River), two fish were released in British Columbia (Robertson Creek and Atnarko River), and two fish (Baranof Island and Stikine River) came from southeastern Alaska releases.

Table 1.--Incidence of coded-wire tagged salmonids in landings examined by U.S. observers on board Japanese salmon motherships within the U.S. EEZ in 1985.

	Number of Fish						Total
	Sockeye	Chum	Pink	Coho	Chinook	Steelhead	
Examined	8,075	12,923	14,740	1,986	12,588	383	50,695
Missing adipose fin	2	1	1	-	9	19	32
Coded-wire tagged	0	0	0	0	0	7	7

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. EEZ in 1984.

	Number of Fish					
	Sockeye	Chum	Pink	Coho	Chinook	Total
WASHINGTON, OREGON, CALIFORNIA						
Examined <sup>1</sup>	35	398	0	1,555	2,459	4,447
Missing adipose fin	0	0	0	27	45	72
Coded-wire tagged	0	0	0	25	39	64
GULF OF ALASKA						
Examined <sup>1</sup>	33	526	9	65	31,095	31,728
Missing adipose fin	0	0	0	0	166	166
Coded-wire tagged	0	0	0	0	143	143
BERING SEA, ALEUTIANS						
Examined <sup>1</sup>	42	23,784	162	44	4,194	28,226
Missing adipose fin	0	2	0	0	8	10
Coded-wire tagged	0	1	0	0	6	7

<sup>1</sup>Source: R. Nelson, National Marine Fisheries Service, Northwest and Alaska Fisheries Center, personal communication.

Table 3.--Incidence of coded-wire-tagged salmonids in gill net catches observed by Japanese and U.S. scientists on Japanese research vessels in the North Pacific Ocean and Bering Sea in 1984. Source: Fisheries Agency of Japan, 1985.

	Number of Fish						Total
	Sockeye	Chum	Pink	Coho	Chinook	Steelhead	
Examined	34,150	74,086	51,881	16,336	1,944	1,238	179,635
Missing adipose fin	0	0	0	0	0	19	19
Coded-wire tagged	0	0	0	0	0	13	13

Table 4.--Abbreviations of tagging agencies which released coded-wire-tagged salmonids recovered in foreign commercial and research vessel catches, January 1980 to September 1985.

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
CDFO	Canada Department of Fisheries and Oceans - Operations
ELWA	Elwah Indian Tribe
FWS	U.S. Fish and Wildlife Service
HOH	Hoh Indian Tribe
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

## REFERENCES

- 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.)
- Fisheries Agency of Japan. 1985. Data records from salmon research vessels, 1984. I--catch data. 206 p.
- Pacific Marine Fisheries Commission Regional Mark Processing Center. 1985. Releases of coded-wire tagged salmon and steelhead from Pacific coast streams through 1984. April, 1985. 154 p.
- Wertheimer, A. C. and M. L. Dahlberg. 1983. 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, Anchorage, Alaska, November 1983. 14 pp. Northwest and Alaska Fisheries Center, National Marine Fisheries Service, National Oceanic Atmospheric Administration, Auke Bay Laboratory, P. O. Box 210155, Auke Bay, Alaska 99821.)
- Wertheimer, A. C. and M. L. Dahlberg. 1984. Report of the 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. (Document submitted to annual meeting of the International North Pacific Fisheries Commission, Vancouver, B. C., November 1984. 14 pp. Northwest and Alaska Fisheries Center, Natl. Mar. Fish. Serv., Natl. Oceanic Atmos. Admin., Auke Bay Laboratory, P. O. Box 210155, Auke Bay, AK 99821.)

TABLE 5. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE							RECOVERY										
Y	1	2	YEAR	SITE	STATE	AGENCY	NUMBER TAGGED	DATE	DATE	LATITUDE DEG MIN	LONGITUDE DEG MIN	LENGTH TSFT (mm)	BODY WEIGHT (g)	GONAD WEIGHT (g)	SEX	GEAR	SPECIES
-1984-																	
021661	80		ROBERTSON CR	BC	CDFO	151278	05/81	840224	57 21 N	155 36 W	620	3100	1	M	TRAWL	CHINOOK	
021661	80		ROBERTSON CR	BC	CDFO	151278	05/81	840303	57 44 N	154 20 W	630	3400		M	TRAWL	CHINOOK	
021835	80		BIRKENHEAD R	BC	CDFO	65557	04/81	840320	57 57 N	154 28 W	670	3300	1	M	TRAWL	CHINOOK	
021863	82		SLIM CR	BC	CDFO	102087	04/83	841002	55 25 N	158 39 W	430			F	TRAWL	CHINOOK	
021937	80		ROBERTSON CR	BC	CDFO	19403	05/81	840221	57 53 N	154 21 W	730	4900	5	F	TRAWL	CHINOOK	
021951	80		KALUM R	BC	CDFO	44273	06/81	841127	56 55 N	152 32 W	840	9700	50	F	TRAWL	CHINOOK	
022141	81		KING CR LOWER	BC	CDFO	24552	07/82	841016	56 53 N	152 25 W	560	2150	1	M	TRAWL	CHINOOK	
022154	81		ATNARKO R	BC	CDFO	34703	06/82	840302	57 42 N	154 30 W	530	2300		F	TRAWL	CHINOOK	
022154	81		ATNARKO R	BC	CDFO	34703	06/82	840725	57 20 N	151 19 W	640	4200	9	F	TRAWL	CHINOOK	
022154	81		ATNARKO R	BC	CDFO	34703	06/82	841024	58 02 N	153 34 W	770	7500	50	F	TRAWL	CHINOOK	
022155	81		ATNARKO R	BC	CDFO	32041	06/82	840409	55 39 N	165 05 W	760	5300	7	F	TRAWL	CHINOOK	
022159	81		CHILLIWACK R	BC	CDFO	48188	05/82	840224	57 11 N	155 46 W	660	3800	1	F	TRAWL	CHINOOK	
022159	81		CHILLIWACK R	BC	CDFO	48188	05/82	840316	56 41 N	155 41 W	600	2200	1	M	TRAWL	CHINOOK	
022163	81		CHILLIWACK R	BC	CDFO	74018	06/82	840911	47 56 N	124 53 W	555	1720	10	F	TRAWL	CHINOOK	
022201	82		BOWRON R	BC	CDFO	74916	04/83	841021	56 47 N	152 32 W	470	1810	1	M	TRAWL	CHINOOK	
022203	81		CONUMA R	BC	CDFO	64484	06/82	840225	57 36 N	155 21 W	500	1500	1	F	TRAWL	CHINOOK	
022203	81		CONUMA R	BC	CDFO	64484	06/82	841125	55 31 N	158 48 W	580	2640	8	F	TRAWL	CHINOOK	
022226	81		SAN JUAN R	BC	CDFO	97454	06/82	841114	56 48 N	152 23 W	690	5200	1	M	TRAWL	CHINOOK	
022238	81		KANYON CR	BC	CDFO	15555	06/82	841104	56 37 N	152 30 W	630	4580	4	M	TRAWL	CHINOOK	
022260	82		QUESNEL R	BC	CDFO	66972	04/83	841020	56 50 N	152 28 W	530	2050	1	M	TRAWL	CHINOOK	
022260	82		QUESNEL R	BC	CDFO	66972	04/83	841122	56 44 N	152 33 W	480	1480		M	TRAWL	CHINOOK	
022305	81		SOOKE R	BC	CDFO	33233	06/82	840226	57 36 N	155 13 W	490	1420	1	F	TRAWL	CHINOOK	
022305	81		SOOKE R	BC	CDFO	33233	06/82	840628	56 06 N	155 52 W	490	1700	6	F	TRAWL	CHINOOK	
022305	81		SOOKE R	BC	CDFO	33233	06/82	841016	56 53 N	152 25 W	670	4150	50	F	TRAWL	CHINOOK	
022313	81		KITSUMKALUM R	BC	CDFO	29459	05/82	841020	56 50 N	152 28 W	750	4850	1	F	TRAWL	CHINOOK	
022317	81		SLIM CR	BC	CDFO	26287	07/82	841023	56 58 N	152 31 W	660	3150	20	M	TRAWL	CHINOOK	
022321	81		KISPLOX R	BC	CDFO	30978	08/82	841023	56 58 N	152 31 W	550	2100	20	M	TRAWL	CHINOOK	
022321	81		KISPLOX R	BC	CDFO	30978	08/82	841222	57 00 N	152 37 W	550	2200		M	TRAWL	CHINOOK	
022338	81		COPPER R	BC	CDFO	40534	08/82	841023	56 58 N	152 31 W	550	2000	20	M	TRAWL	CHINOOK	
022354	81		ROBERTSON CR	BC	CDFO	16374	06/82	841114	56 48 N	152 23 W	660	4500	1	F	TRAWL	CHINOOK	
022355	81		ROBERTSON CR	BC	CDFO	15953	06/82	840302	57 37 N	154 35 W	560	1950	1	M	TRAWL	CHINOOK	
022356	81		ROBERTSON CR	BC	CDFO	18549	06/82	840325	57 57 N	154 30 W	570	1950	10	F	TRAWL	CHINOOK	
022358	81		KING CR UPPER	BC	CDFO	23889	10/82	841111	56 48 N	152 29 W	480	1550	1	F	TRAWL	CHINOOK	
022360	82		STUART R	BC	CDFO	23822	04/83	841019	56 37 N	152 30 W	485	1850		F	TRAWL	CHINOOK	
022360	82		STUART R	BC	CDFO	23822	04/83	841020	56 50 N	152 28 W	500	1600	1	M	TRAWL	CHINOOK	
022360	82		STUART R	BC	CDFO	23822	04/83	841020	56 50 N	152 28 W	540	1950	1	M	TRAWL	CHINOOK	
022360	82		STUART R	BC	CDFO	23822	04/83	841020	56 48 N	152 21 W	482	1600		F	TRAWL	CHINOOK	
022360	82		STUART R	BC	CDFO	23822	04/83	841203	56 47 N	152 21 W	510	1800	17	F	TRAWL	CHINOOK	
022361	82		STUART R	BC	CDFO	25918	04/83	841017	56 45 N	152 26 W	500	1550	1	M	TRAWL	CHINOOK	
022361	82		STUART R	BC	CDFO	25918	04/83	841112	56 59 N	152 41 W	540	2100	1	M	TRAWL	CHINOOK	
022405	81		ROBERTSON CR	BC	CDFO	51797	06/82	840222	57 50 N	154 43 W	520	1500	1	M	TRAWL	CHINOOK	
022410	82		BOWRON R	BC	CDFO	72346	04/83	841114	56 48 N	152 23 W	470	1700	1	F	TRAWL	CHINOOK	
022411	82		BOWRON R	BC	CDFO	77057	04/83	841111	56 48 N	152 29 W	510	1550	1	M	TRAWL	CHINOOK	
022418	81		BONAPARTE R	BC	CDFO	15360	04/82	841020	56 48 N	152 21 W	675	4500		F	TRAWL	CHINOOK	
022424	82		QUESNEL R	BC	CDFO	25786	03/83	841124	56 45 N	152 20 W	490	1750	20	F	TRAWL	CHINOOK	

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.



TABLE 5. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE		RECOVERY														
A G E N U Y	I D E N T I F I C A T I O N	R E G I O N	S T A T E	S P E C I E S	N U M B E R	T A G G E D	D A T E	D A T E	L A T I T U D E	L O N G I T U D E	L E N G T H	B O D Y	G O N A D	S E X	G E A R	S P E C I E S
-1984-																
022433	82	QUESNEL R	BC	CDFO	23347	05/83	841126	56 41 N	152 27 W	470	1500		F	TRAWL	CHINOOK	
022435	82	QUESNEL R	BC	CDFO	50182	04/83	841124	56 45 N	152 20 W	510	2190		M	TRAWL	CHINOOK	
022453	82	SAN JUAN R	BC	CDFO	49868	06/83	841120	56 57 N	152 29 W	470	1600	1	M	TRAWL	CHINOOK	
022506	82	MARBLE R	BC	CDFO	26482	05/83	841016	56 53 N	152 25 W	510	1600	20	M	TRAWL	CHINOOK	
022506	82	MARBLE R	BC	CDFO	26482	05/83	841111	56 48 N	152 29 W	510	1500	1	F	TRAWL	CHINOOK	
022510	82	NITINAT R	BC	CDFO	26348	05/83	841126	56 41 N	152 27 W	510	1840		M	TRAWL	CHINOOK	
022510	82	NITINAT R	BC	CDFO	26348	05/83	841128	56 55 N	152 25 W	470	1420		F	TRAWL	CHINOOK	
022511	82	NITINAT R	BC	CDFO	26254	05/83	841125	56 47 N	152 24 W	510	1750		M	TRAWL	CHINOOK	
022512	82	NITINAT R	BC	CDFO	29376	05/83	841015	56 45 N	152 11 W	470	1550	20	F	TRAWL	CHINOOK	
022512	82	NITINAT R	BC	CDFO	29376	05/83	841124	56 50 N	152 33 W	520	2100	2	F	TRAWL	CHINOOK	
022525	82	CHEHALIS RIVER-BC	BC	CDFO	38415	05/83	840911	47 56 N	124 53 W	515	1660		M	TRAWL	CHINOOK	
022533	82	CEDAR CR-SKEENA	BC	CDFO	32924	04/83	841016	56 44 N	152 18 W	510	1500	1	M	TRAWL	CHINOOK	
022541	82	ROBERTSON CR	BC	CDFO	87416	06/83	841016	56 53 N	152 25 W	540	1850	1	F	TRAWL	CHINOOK	
022559	82	ATNARKO R	BC	CDFO	68741	06/83	840203	56 31 N	156 11 W	520	1920	1	M	TRAWL	CHINOOK	
031716	79	LITTLE FORT WALTER	AK	NMFS	14498	05/81	840412	54 51 N	165 26 W	690	4000	10	F	TRAWL	CHINOOK	
031763	81	LITTLE FORT WALTER	AK	NMFS	13697	05/83	841009	56 54 N	152 43 W	560	3000	1	M	TRAWL	CHINOOK	
031803	81	LITTLE FORT WALTER	AK	NMFS	13184	05/83	841126	56 41 N	152 27 W	580	3010	20	F	TRAWL	CHINOOK	
041726	79	STIKINE R 108-40	AK	ADFG	4268	09/80	840208	54 40 N	165 21 W	680	3700		F	TRAWL	CHINOOK	
042040	79	DEER MOUNTAIN 101-47	AK	ADFG	15734	05/81	840128	56 58 N	155 23 W	820	6500		F	TRAWL	CHINOOK	
042042	79	CRYSTAL CR 106-44	AK	ADFG	18530	05/81	840317	56 46 N	155 36 W	720	5900	1	F	TRAWL	CHINOOK	
042121	80	KETCHIKAN CR 101-47	AK	ADFG	91606	05/82	840205	57 11 N	155 20 W	472	2200		M	TRAWL	CHINOOK	
042121	80	KETCHIKAN CR 101-47	AK	ADFG	91606	05/82	840223	57 33 N	155 18 W	560	3400	1	F	TRAWL	CHINOOK	
042121	80	KETCHIKAN CR 101-47	AK	ADFG	91606	05/82	840224	57 21 N	155 36 W	630	2700	1	M	TRAWL	CHINOOK	
042121	80	KETCHIKAN CR 101-47	AK	ADFG	91606	05/82	840307	56 46 N	155 36 W	600	2600	1	F	TRAWL	CHINOOK	
042121	80	KETCHIKAN CR 101-47	AK	ADFG	91606	05/82	840308	58 03 N	154 11 W	850	8430	130	F	TRAWL	CHINOOK	
042121	80	KETCHIKAN CR 101-47	AK	ADFG	91606	05/82	840312	56 58 N	155 54 W	541	2200		F	TRAWL	CHINOOK	
042202	80	CRYSTAL CR 106-44	AK	ADFG	56660	05/82	840311	57 13 N	155 40 W	560	2290	10	F	TRAWL	CHINOOK	
042202	80	CRYSTAL CR 106-44	AK	ADFG	56660	05/82	841016	56 53 N	152 25 W	820	8600	100	F	TRAWL	CHINOOK	
042217	81	KASNYKU BAY 112-11	AK	ADFG	43299	05/83	841021	56 50 N	152 42 W	570	2250	1	F	TRAWL	CHINOOK	
042229	81	CRYSTAL CR 106-44	AK	ADFG	58176	05/83	841016	57 12 N	151 17 W	520	2330	1	M	TRAWL	CHINOOK	
042229	81	CRYSTAL CR 106-44	AK	ADFG	58176	05/83	841019	56 42 N	152 21 W	600	2300	1	M	TRAWL	CHINOOK	
042229	81	CRYSTAL CR 106-44	AK	ADFG	58176	05/83	841126	56 41 N	152 27 W	500	1900		F	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	840204	57 36 N	155 17 W	800	7510	13	F	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	840208	57 25 N	155 33 W	760	6600	8	F	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	840220	57 51 N	154 08 W	590	1430	1	F	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	840221	57 46 N	154 12 W	679	4600	10	M	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	840221	57 54 N	154 06 W	730	4700	10	M	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	840307	57 44 N	154 56 W	610	2790	10	F	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	841005	56 56 N	152 30 W	870	9800		M	TRAWL	CHINOOK	
044005	80	HERRING COVE 101-45	AK	SSRA	132463	05/82	841022	56 46 N	152 22 W	750	6000		M	TRAWL	CHINOOK	

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.

TABLE 5. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE							RECOVERY									
A	D	B														
G	A	R	S													
E	T	O	T	P												
N	A	O	A	R												
C	D		T	O												
Y	1	2	YEAR	SITE	AGENCY	NUMBER	DATE	DATE	LATITUDE	LONGITUDE	LENGTH	BODY	GONAD	SEX	GEAR	SPECIES
						TAGGED			DEG	MIN	DEG	MIN	TSFT	WEIGHT	WEIGHT	
									(mm)	(g)	(g)					
-1984-																
051057	81		UMATILLA R	OR	FWS	102331	04/82	840714	47 38 N	124 37 W	723	6100	41	M	TRAWL	CHINOOK
051117	82		COOK CR	WA	FWS	46873	06/83	841111	56 48 N	152 29 W	490	1450	1	M	TRAWL	CHINOOK
051118	82		COOK CR	WA	FWS	46877	09/83	841130	56 39 N	152 39 W	460	1400		F	TRAWL	CHINOOK
051120	81		CHALAAT CR	WA	HOH	27806	08/82	840825	55 31 N	158 48 W	630			M	TRAWL	CHINOOK
051120	81		CHALAAT CR	WA	HOH	27806	08/82	841023	56 58 N	152 31 W	680	4150	20	M	TRAWL	CHINOOK
051120	81		CHALAAT CR	WA	HOH	27806	08/82	841104	56 37 N	152 33 W	630	4660	20	F	TRAWL	CHINOOK
051122	81		COOK CR	WA	FWS	27545	05/83	841105	56 45 N	152 24 W	620	3250	1	F	TRAWL	CHINOOK
051145	82		SPRING CR	WA	FWS	52282	04/83	840704	47 27 N	124 34 W	410	780		F	TRAWL	CHINOOK
051145	82		SPRING CR	WA	FWS	52282	04/83	840706	47 10 N	124 38 W	410	900	1	F	TRAWL	CHINOOK
051145	82		SPRING CR	WA	FWS	52282	04/83	840827	47 55 N	125 02 W	550	2400		M	TRAWL	CHINOOK
051424	82		QUINAULT R	WA	QDNR	83490	07/83	840202	57 34 N	155 09 W	500	1620	1	M	TRAWL	CHINOOK
051424	82		QUINAULT R	WA	QDNR	83490	07/83	841016	56 53 N	152 25 W	440	1150	20	F	TRAWL	CHINOOK
051424	82		QUINAULT R	WA	QDNR	83490	07/83	841207	56 44 N	152 24 W	510	1680		M	TRAWL	CHINOOK
051424	82		QUINAULT R	WA	QDNR	83490	07/83	841207	56 47 N	152 24 W	470	1620	20	F	TRAWL	CHINOOK
064617	81		MERCED R	CA	CDFG	49217	04/82	840613	44 53 N	124 21 W	410	1700	20	M	TRAWL	CHINOOK
065611	82		TRINITY R, LINE PT	CA	CDFG	21223	11/83	840719	40 56 N	124 20 W	398	870		M	TRAWL	CHINOOK
065830	81		SACRA. R, RIO VISTA	CA	CDFG	26291	07/82	840707	47 32 N	124 34 W	570	2650	2	M	TRAWL	CHINOOK
065831	81		S. F. BAY, TIBURON	CA	CDFG	46410	08/82	840813	44 05 N	124 27 W	610	3000		M	TRAWL	CHINOOK
065907	81		KLAMATH R, IRON GATE	CA	CDFG	159092	06/82	840519	44 01 N	124 37 W	470	1100	1	M	TRAWL	CHINOOK
066027	81		BATTLE CR	CA	CDFG	41738	05/82	840709	46 07 N	124 19 W	550	2200		F	TRAWL	CHINOOK
066122	81		TRINITY R, HATCHERY	CA	CDFG	94991	10/82	840707	46 11 N	124 16 W	430	980		M	TRAWL	CHINOOK
066218	81		SACRA. R, DISCOV. PK	CA	CDFG	89780	05/82	841113	56 53 N	152 17 W	730	5300	1	M	TRAWL	CHINOOK
066220	81		SACRA. R, DISCOV. PK	CA	CDFG	85885	05/82	840829	47 13 N	124 42 W	550	2200		F	TRAWL	CHINOOK
066223	82		SACRA. R, ISLETON	CA	CDFG	92693	05/83	840803	42 43 N	124 43 W	470	1270	1	F	TRAWL	CHINOOK
072054	80		MCKENZIE R	OR	ODFW	32518	03/82	840226	57 40 N	155 14 W	600	2500	1	M	TRAWL	CHINOOK
072410	81		BIG CR	OR	ODFW	131234	05/82	840716	47 33 N	124 43 W	723	6200	250	F	TRAWL	CHINOOK
072410	81		BIG CR	OR	ODFW	131234	05/82	840718	47 24 N	124 32 W	610	3100		F	TRAWL	CHINOOK
072419	80		MID FK WILLAMETTE R	OR	ODFW	30717	03/82	840221	57 56 N	154 02 W	660	3750	1	M	TRAWL	CHINOOK
072420	80		MID FK WILLAMETTE R	OR	ODFW	29505	03/82	840401	54 50 N	165 12 W	650	3200	10	F	TRAWL	CHINOOK
072424	81		TANNER CR	OR	ODFW	105029	06/82	841126	56 41 N	152 27 W	740	5570		M	TRAWL	CHINOOK
072521	81		MCKENZIE R	OR	ODFW	32253	11/82	841023	56 41 N	152 24 W	660	3950	1	M	TRAWL	CHINOOK
072528	80		N SANTIAM R	OR	ODFW	50022	03/82	841113	56 45 N	152 26 W	860	8470	38	F	TRAWL	CHINOOK
072532	80		CEDAR CR (NESTUCCA)	OR	ODFW	11012	11/81	841023	56 41 N	152 24 W	820	7300	20	F	TRAWL	CHINOOK
072533	80		FALL CR (ALSEA)	OR	ODFW	23927	10/81	841017	54 45 N	166 28 W		1250		M	TRAWL	CHINOOK
072539	80		CHETCO R	OR	ODFW	27190	09/81	840928	44 29 N	124 46 W				F	TRAWL	CHINOOK
072563	81		CHETCO R	OR	ODFW	27535	09/82	840625	45 08 N	124 10 W	460	1200	1	F	TRAWL	CHINOOK
072605	81		ELK R	OR	ODFW	27609	10/82	840822	44 21 N	124 50 W	570	2700	10	F	TRAWL	CHINOOK

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.

TABLE 5. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE							RECOVERY										
Y	1	2	YEAR	SITE	STATE	AGENCY	NUMBER TAGGED	DATE	DATE	LATITUDE DEG MIN	LONGITUDE DEG MIN	LENGTH TSFT (mm)	BODY WEIGHT (g)	GONAD WEIGHT (g)	SEX	GEAR	SPECIES
-1984-																	
624832	80		SIUSLAW BAY	OR	DOMS		14961	12/81	841020	56 47 N	152 23 W	740	4850	20	F	TRAWL	CHINOOK
632134	80		COWLITZ R	WA	WDF		24014	04/82	840717	47 45 N	124 34 W	720	5100		F	TRAWL	CHINOOK
632252	81		COLUMBIA R	WA	WDF		262176	06/82	841122	56 50 N	152 21 W	710	5200	20	F	TRAWL	CHINOOK
632252	81		COLUMBIA R	WA	WDF		262176	06/82	841127	56 55 N	152 32 W	730	4800	30	F	TRAWL	CHINOOK
632257	82		STEVENS CR	WA	WDF		112592	06/83	841016	56 53 N	152 25 W	440	1050	1	F	TRAWL	CHINOOK
632257	82		STEVENS CR	WA	WDF		112592	06/83	841016	56 44 N	152 18 W	460	1150	1	M	TRAWL	CHINOOK
632257	82		STEVENS CR	WA	WDF		112592	06/83	841016	56 44 N	152 18 W	480	1300	1	F	TRAWL	CHINOOK
632257	82		STEVENS CR	WA	WDF		112592	06/83	841119	57 01 N	152 36 W	430	1200	40	F	TRAWL	CHINOOK
632501	82		FORK CR	WA	WDF		150360	05/83	841013	57 00 N	152 33 W	520	1900	1	M	TRAWL	CHINOOK
632501	82		FORK CR	WA	WDF		150360	05/83	841020	56 50 N	152 20 W	470	1350	1	F	TRAWL	CHINOOK
632501	82		FORK CR	WA	WDF		150360	05/83	841111	56 48 N	152 29 W	410	1150	1	F	TRAWL	CHINOOK
632505	81		COWLITZ R	WA	WDF		73000	04/83	840704	46 46 N	124 32 W	540	1720			TRAWL	CHINOOK
632505	81		COWLITZ R	WA	WDF		73000	04/83	840705	47 27 N	124 34 W	536	1950	5	F	TRAWL	CHINOOK
632506	81		COWLITZ R	WA	WDF		77454	04/83	841020	56 47 N	152 23 W	620	3000	1	F	TRAWL	CHINOOK
632611	82		COLUMBIA R	WA	WDF		204141	05/83	841020	56 47 N	152 23 W	520	1750	1	M	TRAWL	CHINOOK
632612	82		COLUMBIA R	WA	WDF		202388	06/83	840204	57 33 N	155 21 W	530	1900	1	F	TRAWL	CHINOOK
632612	82		COLUMBIA R	WA	WDF		202388	06/83	841128	56 50 N	152 25 W	480	1650		F	TRAWL	CHINOOK
632738	82		LEWIS R	WA	WDF		48221	06/83	840707	46 11 N	124 16 W	330	460		M	TRAWL	CHINOOK
632834	82		COWLITZ R	WA	WDF		73205	04/84	840703	47 38 N	124 41 W	250	450		M	TRAWL	CHINOOK
B40904	81		CROOKED CR	AK	ADFG		10000	06/83	841023	56 58 N	152 31 W	510	1550	1	M	TRAWL	CHINOOK
B40907	81		NEETS BAY 101-90	AK	SSRA		94723	05/83	841010	56 58 N	152 41 W	650	3600	20	M	TRAWL	CHINOOK
B40907	81		NEETS BAY 101-90	AK	SSRA		94723	05/83	841019	56 42 N	152 21 W	580	2600	1	M	TRAWL	CHINOOK
B40907	81		NEETS BAY 101-90	AK	SSRA		94723	05/83	841114	56 49 N	152 29 W	630	4400	1	F	TRAWL	CHINOOK
B40907	81		NEETS BAY 101-90	AK	SSRA		94723	05/83	841201	56 59 N	152 33 W	580	3100	1	F	TRAWL	CHINOOK
B40908	81		NEETS BAY 101-90	AK	SSRA		37737	05/83	841013	56 59 N	152 42 W	610	3150	1	M	TRAWL	CHINOOK
B40908	81		NEETS BAY 101-90	AK	SSRA		37737	05/83	841015	56 47 N	152 23 W	510	1950	1	F	TRAWL	CHINOOK
B40908	81		NEETS BAY 101-90	AK	SSRA		37737	05/83	841021	56 42 N	152 24 W	640	3000	1	F	TRAWL	CHINOOK
CeDy	79		COL. R, McNARY	OR	NMFS		45582	08/80	840205	57 07 N	155 25 W	630	3560		F	TRAWL	CHINOOK
-1985-																	
022155	81		ATNARKO R	BC	CDFO		32041	06/82	850409	55 39 N	165 05 W	760	5300	7	F	TRAWL	CHINOOK
022215	80		COPPER R	BC	CDFO		18701	08/81	850202	56 21 N	156 15 W	670	3970	1	F	TRAWL	CHINOOK
022312	81		KITSUMKALUM R	BC	CDFO		23234	05/82	850502	54 24 N	165 45 W	710	4400		F	TRAWL	CHINOOK
022422	82		CHILLIWACK R	BC	CDFO		73504	06/83	850721	47 07 N	124 35 W	630	2850		F	TRAWL	CHINOOK
022559	82		ATNARKO R	BC	CDFO		68741	06/83	850203	56 31 N	156 11 W	520	1920	1	M	TRAWL	CHINOOK
042121	80		KETCHIKAN CR 101-47	AK	ADFG		91606	05/82	850223	58 11 N	154 05 W	840	8700	117	F	TRAWL	CHINOOK
042121	80		KETCHIKAN CR 101-47	AK	ADFG		91606	05/82	850308	58 03 N	154 11 W	850	8430	130	F	TRAWL	CHINOOK

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.



TABLE 5. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE										RECOVERY								
Y	1	2	YEAR	SITE	E	V	AGENCY	NUMBER TAGGED	DATE	DATE	LATITUDE DEG MIN	LONGITUDE DEG MIN	LENGTH TSFT (mm)	BODY WEIGHT (g)	GONAD WEIGHT (g)	SEX	GEAR	SPECIES
-1984-																		
072612	82		TRASK	R	OR	ODFW	23906	10/83	841015	56 56 N 152 27 W	460	1350	20	M	TRAWL	CHINOOK		
072612	82		TRASK	R	OR	ODFW	23906	10/83	841114	56 48 N 152 23 W	450	1400	1	F	TRAWL	CHINOOK		
072613	82		TRASK	R	OR	ODFW	25117	10/83	841114	56 48 N 152 23 W	450	1450	1	F	TRAWL	CHINOOK		
072631	82		TRASK	R	OR	ODFW	27565	08/83	841023	56 58 N 152 31 W	490	1500	1	F	TRAWL	CHINOOK		
072632	82		TRASK	R	OR	ODFW	48845	07/83	841020	56 47 N 152 23 W	520	1550	1	M	TRAWL	CHINOOK		
072632	82		TRASK	R	OR	ODFW	48845	07/83	841028	56 58 N 152 31 W	490	1900	1	F	TRAWL	CHINOOK		
072632	82		TRASK	R	OR	ODFW	48845	07/83	841114	56 48 N 152 23 W	480	1700	1	F	TRAWL	CHINOOK		
072634	82		TRASK	R	OR	ODFW	29165	09/83	841020	56 50 N 152 28 W	460	1150	1	M	TRAWL	CHINOOK		
072635	82		ROCK CR (UMFQUA)		OR	ODFW	25073	10/83	840812	44 04 N 124 21 W	380	680		M	TRAWL	CHINOOK		
072718	81		MCKENZIE	R	OR	ODFW	36165	03/83	840223	57 33 N 155 18 W	540	1400	1	F	TRAWL	CHINOOK		
072718	81		MCKENZIE	R	OR	ODFW	36165	03/83	841023	56 58 N 152 31 W	700	4500	1	F	TRAWL	CHINOOK		
072720	81		MCKENZIE	R	OR	ODFW	30049	03/83	841009	56 47 N 152 40 W	630	3910	1	F	TRAWL	CHINOOK		
072720	81		MCKENZIE	R	OR	ODFW	30049	03/83	841023	56 58 N 152 31 W	730	4550	1	F	TRAWL	CHINOOK		
072721	81		MCKENZIE	R	OR	ODFW	31930	11/82	841125	56 47 N 152 24 W	590	3220	20	F	TRAWL	CHINOOK		
072724	81		MCKENZIE	R	OR	ODFW	29070	03/83	840222	57 54 N 154 34 W	520	1740	1	M	TRAWL	CHINOOK		
072724	81		MCKENZIE	R	OR	ODFW	29070	03/83	841018	56 45 N 152 19 W	690	3800	1	F	TRAWL	CHINOOK		
072727	82		TANNER CR		OR	ODFW	49999	05/83	840707	47 32 N 124 34 W	360	650	1	F	TRAWL	CHINOOK		
072727	82		TANNER CR		OR	ODFW	49999	05/83	840803	47 28 N 124 51 W	425	900		F	TRAWL	CHINOOK		
072826	82		COLUMBIA R		OR	ODFW	100244	06/83	841127	56 55 N 152 32 W	490	1520		M	TRAWL	CHINOOK		
072827	82		TANNER CR		OR	ODFW	100259	06/83	841020	56 50 N 152 28 W	510	1550	1	F	TRAWL	CHINOOK		
072828	82		TANNER CR		OR	ODFW	99001	08/83	841020	56 54 N 152 27 W	480	1400	20	M	TRAWL	CHINOOK		
072832	82		WILLA, SANTI, MOLALLA		OR	ODFW	26176	05/83	840705	47 24 N 124 32 W	410	1100		M	TRAWL	CHINOOK		
072844	82		ROGUE R		OR	ODFW	21475	10/83	840719	40 58 N 124 20 W	430	900	1	F	TRAWL	CHINOOK		
072844	82		ROGUE R		OR	ODFW	21475	10/83	840803	42 43 N 124 43 W	390	730	1	F	TRAWL	CHINOOK		
072849	82		ROGUE R		OR	ODFW	22288	10/83	840803	42 43 N 124 43 W	430	1120	1	M	TRAWL	CHINOOK		
072857	82		BIG CR+SF KLASKININE		OR	ODFW	47788	10/83	840707	47 32 N 124 34 W	330	480	1	M	TRAWL	CHINOOK		
072857	82		BIG CR+SF KLASKININE		OR	ODFW	47788	10/83	840710	47 06 N 124 44 W	370	560		F	TRAWL	CHINOOK		
072857	82		BIG CR+SF KLASKININE		OR	ODFW	47788	10/83	840715	41 11 N 124 20 W	391	780		F	TRAWL	CHINOOK		
072858	82		BIG CR+SF KLASKININE		OR	ODFW	50008	10/83	840614	45 12 N 124 07 W	330	564			TRAWL	CHINOOK		
072858	82		BIG CR+SF KLASKININE		OR	ODFW	50008	10/83	840710	47 06 N 124 44 W	440	1060		M	TRAWL	CHINOOK		
072858	82		BIG CR+SF KLASKININE		OR	ODFW	50008	10/83	840825	44 04 N 124 22 W	390	740		F	TRAWL	CHINOOK		
082225	82		ROBERTSON CR		BC	CDFR	20028	06/83	841217	56 11 N 169 36 W	490	1550	10	F	TRAWL	CHINOOK		
082226	82		ROBERTSON CR		BC	CDFR	20195	06/83	841022	56 46 N 152 22 W	530	2200		M	TRAWL	CHINOOK		
231623	82		COL. R, McNARY		OR	NMFS	15057	06/83	841020	56 50 N 152 28 W	510	1450	1	M	TRAWL	CHINOOK		
231623	82		COL. R, McNARY		OR	NMFS	15057	06/83	841125	56 47 N 152 24 W	470	1430	20	F	TRAWL	CHINOOK		
231626	82		COL. R, BEACON ROCK		OR	NMFS	15040	07/83	841210	56 57 N 152 35 W	560	2620		M	TRAWL	CHINOOK		
311613	82		CROOKED CR		AK	ADFG	14000	05/83	841113	54 18 N 160 41 W	590	1500		M	TRAWL	CHINOOK		
621660	82		COOS BAY		OR	ANAD	5406	10/83	840815	44 01 N 124 28 W	390	670		F	TRAWL	CHINOOK		

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER, SEE TABLE 4 FOR TAGGING AGENCIES.



TABLE 5. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE								RECOVERY								
A D D	B															
G A A	R															
E T T	O	S														
N A A	O	T P														
C	D	A R														
Y 1 2	YEAR	SITE	E	V	AGENCY	NUMBER	DATE	DATE	LATITUDE	LONGITUDE	LENGTH	BODY	GONAD	SEX	GEAR	SPECIES
						TAGGED			DEG MIN	DEG MIN	TSFT	WEIGHT	WEIGHT			
											(mm)	(g)	(g)			
-1985-																
042229	81	CRYSTAL CR 106-44	AK		ADFG	58176	05/83	850217	57 16 N	155 16 W	520	2000	20	F	TRAWL	CHINOOK
042230	81	THOMAS BASIN 101-47	AK		ADFG	17992	05/83	850217	57 16 N	154 53 W	660	4400	1	F	TRAWL	CHINOOK
044005	80	HERRING COVE 101-45	AK		SSRA	132463	05/82	850204	57 36 N	155 17 W	800	7510	1	F	TRAWL	CHINOOK
044005	80	HERRING COVE 101-45	AK		SSRA	132463	05/82	850208	57 25 N	155 33 W	760	6600	8	F	TRAWL	CHINOOK
044005	80	HERRING COVE 101-45	AK		SSRA	132463	05/82	850306	58 07 N	154 00 W	790	8100	1	F	TRAWL	CHINOOK
051424	82	QUINULT R	WA		QDNR	83490	07/83	850202	57 34 N	155 09 W	500	1620	1	M	TRAWL	CHINOOK
066039	83	SACRA R, KNIGHTS LD	CA		CDFG	49351	05/84	850722	46 56 N	124 25 W	490	1600	5	F	TRAWL	CHINOOK
072612	82	TRASK R	OR		ODFW	23906	10/83	850205	57 37 N	155 11 W	490	1400		F	TRAWL	CHINOOK
072623	81	APFLEGATE R	OR		ODFW	26222	10/82	850531	43 28 N	124 32 W	500	1600	20	F	TRAWL	CHINOOK
072633	82	TRASK R	OR		ODFW	37649	08/83	850202	56 24 N	156 18 W	460	1390	1	F	TRAWL	CHINOOK
073021	83	COQUILLE + FERRY CR	OR		ODFW	25390	09/84	850621	43 32 N	124 23 W	340	500	2	F	TRAWL	CHINOOK
101322	83	EAGLE CR OR., COL. R	OR		IDFG	N/A	/84	850206	57 36 N	155 16 W	480	1300		F	TRAWL	CHINOOK
231625	82	COL. R, BONNEVILLE	OR		NMFS	15096	07/83	850205	57 37 N	155 11 W	470	1300		F	TRAWL	CHINOOK
600543	81	YAQUINA BAY	OR		OAF	13757	11/82	850104	56 12 N	169 09 W	640	3400	1	F	TRAWL	CHINOOK
600544	81	YAQUINA BAY	OR		OAF	14762	09/82	850202	56 24 N	156 18 W	630	3980	1	M	TRAWL	CHINOOK
603651	83	YAQUINA BAY	OR		OAF	9746	10/84	850718	47 19 N	124 34 W	570	2500	25	M	TRAWL	CHINOOK
621761	83	COOS BAY	OR		ANAD	20769	08/84	850612	43 44 N	124 15 W	420	950		F	TRAWL	CHINOOK
632136	80	HUFF SPRINGS	WA		WDF	19486	05/82	850806	47 32 N	124 37 W	290				TRAWL	CHINOOK
632259	82	WASHOUGAL R	WA		WDF	101206	08/83	850807	46 33 N	124 20 W	600	2950	9	F	TRAWL	CHINOOK
632501	82	FORK CR	WA		WDF	150360	05/83	850204	57 34 N	155 16 W	500	1700		F	TRAWL	CHINOOK
632503	82	COWLITZ R	WA		WDF	135211	06/83	850806	46 34 N	124 21 W	630	3500	16	M	TRAWL	CHINOOK
632611	82	COLUMBIA R	WA		WDF	204141	05/83	850307	57 52 N	154 02 W	620	2800		M	TRAWL	CHINOOK
632612	82	COLUMBIA R	WA		WDF	202388	06/83	850202	56 24 N	156 18 W	470	1370	1	F	TRAWL	CHINOOK
632612	82	COLUMBIA R	WA		WDF	202388	06/83	850202	56 24 N	156 18 W	460	1350	1	F	TRAWL	CHINOOK
632612	82	COLUMBIA R	WA		WDF	202388	06/83	850203	56 36 N	156 14 W	500	1720	1	F	TRAWL	CHINOOK
632612	82	COLUMBIA R	WA		WDF	202388	06/83	850204	57 33 N	155 21 W	530	1900	1	F	TRAWL	CHINOOK
632612	82	COLUMBIA R	WA		WDF	202388	06/83	850212	57 32 N	154 49 W	470	1900		F	TRAWL	CHINOOK
632635	82	COWLITZ R	WA		WDF	73878	04/84	850718	46 27 N	124 19 W	590	2400		M	TRAWL	CHINOOK
632844	82	COLUMBIA R	WA		WDF	196208	05/84	850718	47 19 N	124 34 W	570	2500	25	M	TRAWL	CHINOOK
632845	83	COLUMBIA R	WA		WDF	202276	05/84	850612	43 41 N	124 19 W	450	1200	5	M	TRAWL	CHINOOK
B40907	81	NEETS BAY 101-90	AK		SSRA	94723	05/83	850218	57 16 N	155 13 W	580	3000	30	F	TRAWL	CHINOOK
B40907	81	NEETS BAY 101-90	AK		SSRA	94723	05/83	850220	57 46 N	154 39 W	650	3400	10	M	TRAWL	CHINOOK
B40908	81	NEETS BAY 101-90	AK		SSRA	37737	05/83	850216	58 11 N	154 03 W	550	2300		F	TRAWL	CHINOOK
B40908	81	NEETS BAY 101-90	AK		SSRA	37737	05/83	850221	57 54 N	154 41 W	520	1600		F	TRAWL	CHINOOK

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.





TABLE 6. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE							RECOVERY											
Y	1	2	YEAR	SITE	E	V	AGENCY	NUMBER TAGGED	DATE	DATE	LATITUDE DEG MIN	LONGITUDE DEG MIN	LENGTH TSFT (mm)	BODY WEIGHT (g)	GONAD WEIGHT (g)	SEX	GEAR	SPECIES
-1984-																		
022103	81			CAPILANO R	BC		CDFO	8515	05/83	840707	47 32 N	124 21 W	490	1350	14	F	TRAWL	COHO
022336	81			POST CR	BC		CDFO	45019	05/83	840813	47 20 N	124 36 W	570	2220	26	F	TRAWL	COHO
022352	81			CAPILANO R	BC		CDFO	17422	06/83	840813	47 20 N	124 36 W	540	1840	32		TRAWL	COHO
022423	81			CAPILANO R	BC		CDFO	27495	06/83	840716	47 27 N	124 38 W	470	1400		F	TRAWL	COHO
051421	81			QUEETS SYSTEM	WA		QDNR	6340	06/83	840813	46 56 N	124 36 W	610	2440	61	F	TRAWL	COHO
600549	82			OCEAN OFF NEWPORT	OR		OAF	15144	06/83	840725	46 46 N	124 35 W	531	1780	1	M	TRAWL	COHO
603555	82			YAQUINA BAY	OR		OAF	9904	08/83	840911	47 55 N	124 57 W	499	1750	11	F	TRAWL	COHO
603623	82			YAQUINA BAY	OR		OAF	24223	06/83	840707	47 32 N	124 34 W	480	1380	13	F	TRAWL	COHO
632419	81			MINTER CR	WA		WDF	15836	05/83	840703	47 47 N	124 41 W	510	1650	10	M	TRAWL	COHO
632550	81			E FK DICKEY R	WA		WDF	20547	05/83	840813	46 55 N	124 36 W	660	2800	64	F	TRAWL	COHO
632554	81			BIG SOOS CR	WA		WDF	24154	04/83	840725	46 54 N	124 32 W	464	1070	1	M	TRAWL	COHO
632555	81			BIG SOOS CR	WA		WDF	26385	04/83	840731	47 36 N	124 47 W	510	1500		M	TRAWL	COHO
632557	81			VOIGHT CR	WA		WDF	21492	04/83	840705	47 27 N	124 34 W	570	2450	16	M	TRAWL	COHO
632557	81			VOIGHT CR	WA		WDF	21492	04/83	840708	46 05 N	124 17 W	520	1640		F	TRAWL	COHO
632562	81			FORT GAMBLE	WA		COOP	30061	06/83	840707	47 32 N	124 34 W	470	1200	14	F	TRAWL	COHO
632563	81			CLARK CR	WA		WDF	30573	05/83	840703	47 38 N	124 41 W	480	1000		M	TRAWL	COHO
632563	81			CLARK CR	WA		WDF	30573	05/83	840717	47 25 N	124 34 W	510	1400		M	TRAWL	COHO
632620	81			COWLITZ R	WA		WDF	10084	05/83	840727	47 23 N	124 32 W	620	2700		F	TRAWL	COHO
632649	81			NASELLE R	WA		WDF	51293	05/83	840705	47 23 N	124 34 W	640	3100	200	F	TRAWL	COHO
632715	81			WASHOUGAL R	WA		WDF	10323	05/83	840716	47 33 N	124 43 W	482	1300	1	M	TRAWL	COHO
632723	81			CLARK CR	WA		WDF	30334	05/83	840703	47 39 N	124 41 W	490	1280		M	TRAWL	COHO
632725	81			BIG BEEF CR	WA		WDF	19672	05/83	840707	47 32 N	124 34 W	530	1800	12	F	TRAWL	COHO
632725	81			BIG BEEF CR	WA		WDF	19672	05/83	840707	47 32 N	124 34 W	470	1250	9	M	TRAWL	COHO
632729	81			AGATE PASS	WA		COOP	30029	05/83	840707	47 32 N	124 34 W	530	1900	24	F	TRAWL	COHO
632730	81			WALLACE R	WA		WDF	31300	04/83	840703	47 39 N	124 41 W	530	1680		M	TRAWL	COHO
-1985-																		
072653	82			ROCK CR (UMPUA)	OR		ODFW	26561	04/84	850531	43 30 N	124 34 W	500	1600		F	TRAWL	COHO
072816	82			TRASK R	OR		ODFW	26520	03/84	850424	53 12 N	166 52 W	550	2200	1	M	TRAWL	COHO
603615	83			YAQUINA BAY	OR		OAF	6308	09/84	850807	46 31 N	124 18 W	500			M	TRAWL	COHO
632440	80			COWLITZ R	WA		WDF	10568	05/82	850707	56 31 N	155 39 W	610	3400	1	M	TRAWL	COHO

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.



TABLE 7. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE										RECOVERY								
Y	1	2	YEAR	SITE	E	V	AGENCY	NUMBER TAGGED	DATE	DATE	LATITUDE DEG MIN	LONGITUDE DEG MIN	LENGTH TSFT (mm)	BODY WEIGHT (g)	GONAD WEIGHT (g)	SEX	GEAR	SPECIES
-1984-																		
042050	80		CRYSTAL CR 106-44	AK		ADFG	17726	06/82	840717	49 45 N 173 43 E	772	4800	19	F	COMGILL	STEELHEAD		
051149	82		HOH R	WA		FWS	42790	05/83	840719	52 59 N 155 00 W	581	1820	8	F	RESGILL	STEELHEAD		
051260	82		ELWA R	WA		ELWA	13342	05/83	840722	50 00 N 155 00 W	565	1720	25	M	RESGILL	STEELHEAD		
051359	82		QUINULT LK	WA		QDNR	17464	04/83	840719	52 59 N 155 00 W	608	2100	6	M	RESGILL	STEELHEAD		
121609	81		ENGLISHMAN R	BC		BCFW	9320	05/82	840717	49 45 N 173 13 E	683	3600	9	M	COMGILL	STEELHEAD		
121753	82		SOMASS R	BC		BCFW	76486	04/83	840718	54 00 N 155 00 W	602	2030	11	F	RESGILL	STEELHEAD		
121753	82		SOMASS R	BC		BCFW	76486	04/83	840719	52 59 N 155 00 W	586	2240	12	F	RESGILL	STEELHEAD		
121753	82		SOMASS R	BC		BCFW	76486	04/83	840719	52 59 N 155 00 W	549	1950	3	M	RESGILL	STEELHEAD		
121806	81		SOMASS R	BC		BCFW	9809	05/82	840723	50 05 N 173 24 E	753	4400	45	F	COMGILL	STEELHEAD		
121926	82		NICOMEKL R	BC		BCFW	3621	04/83	840723	49 00 N 154 59 W	625	2860	25	F	RESGILL	STEELHEAD		
121941	82		NANAIMO R	BC		BCFW	11936	06/83	840721	51 00 N 154 59 W	586	1950	15	M	RESGILL	STEELHEAD		
121949	81		PUNTLIDGE R LOWER	BC		BCFW	38390	05/82	840717	49 45 N 173 35 E	699	3800	16	F	COMGILL	STEELHEAD		
121950	81		QUINSAM R	BC		BCFW	17405	05/82	840718	49 23 N 173 51 E	712	4250	20	F	COMGILL	STEELHEAD		
122017	82		COWICHAN R	BC		BCFW	17821	06/83	840719	52 59 N 155 00 W	532	1510	2	M	RESGILL	STEELHEAD		
122027	82		SOMASS R	BC		BCFW	96324	04/83	840719	52 59 N 155 00 W	574	1940	11	F	RESGILL	STEELHEAD		
231617	81		COL. R, BEACON ROCK	WA		NMFS	32456	05/83	840722	49 30 N 173 46 E	662	3350	2	M	COMGILL	STEELHEAD		
231639	81		COL. R, BEACON ROCK	WA		NMFS	28658	04/83	840704	44 31 N 175 27 E	590	2300	6	F	RESGILL	STEELHEAD		
231640	81		COL. R, BEACON ROCK	WA		NMFS	30341	04/83	840701	44 30 N 177 30 E	604	2450	1	M	RESGILL	STEELHEAD		
621639	82		STILLAGUAMISH R SYST	WA		WDG	21605	05/83	840721	51 00 N 154 59 W	503	1540	14	M	RESGILL	STEELHEAD		
621908	81		COWLITZ R	WA		WDG	11016	05/82	840721	50 51 N 172 26 E	850	6600	115	M	COMGILL	STEELHEAD		
-1985-																		
042204	81		CRYSTAL/OHMER/FALLS	AK		ADFG	27325	06/83	850719	49 28 N 174 44 E	721	3300			COMGILL	STEELHEAD		
051149	82		HOH R	WA		FWS	42790	05/83	850708	49 29 N 178 29 W	756	4100	40	F	COMGILL	STEELHEAD		
051335	83		CLEARWATER R	ID		FWS	39525	05/84	850615	41 00 N 180 00	632	2540		M	RESGILL	STEELHEAD		
051461	83		HOH R	WA		FWS	33561	05/84	850710	49 00 N 155 00 W	598	2150		M	RESGILL	STEELHEAD		
102516	83		CLEARWATER R	ID		IDFG	40325	05/84	850714	45 30 N 175 35 E	624	2320	2	F	COMGILL	STEELHEAD		
102516	83		CLEARWATER R	ID		IDFG	40325	05/84	850719	45 43 N 177 37 E	600	2020	3	F	COMGILL	STEELHEAD		
102746	83		PAHSIMEROI R	ID		IDFG	40400	04/84	850712	47 00 N 155 00 W	598	2880		M	RESGILL	STEELHEAD		
121753	82		SOMASS R	BC		BCFW	76486	04/83	850709	50 00 N 155 00 W	690	3900		F	RESGILL	STEELHEAD		
121753	82		SOMASS R	BC		BCFW	76486	04/83	850709	50 00 N 155 00 W	685	3000		M	RESGILL	STEELHEAD		
121945	82		SOMASS R	BC		BCFW	18524	04/83	850710	49 00 N 155 00 W	652	3000		F	RESGILL	STEELHEAD		
121949	81		PUNTLIDGE R LOWER	BC		BCFW	38390	05/82	850726	50 05 N 170 25 E	714	3600			COMGILL	STEELHEAD		
122022	80		CHILLIWACK R	BC		BCFW	18863	05/83	850720	49 45 N 172 21 E	757	4350			COMGILL	STEELHEAD		

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.



TABLE 7. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE										RECOVERY										
A	D	D	B																	
G	A	A	R	S																
E	T	T	O	T	F															
N	A	A	O	A	R															
C			D	T	O	NUMBER														
Y	1	2	YEAR	SITE	E	V	AGENCY	TAGGED	DATE	DATE	LATITUDE	LONGITUDE	LENGTH	BODY	GONAD					
											DEG	MIN	DEG	MIN	TSFT	WEIGHT	WEIGHT	SEX	GEAR	SPECIES
													(mm)	(g)	(g)					
-1985-																				
122022	82		CHILLIWACK R	BC	BCFW	18863	05/83	850721	850721	49	54	N	172	06	E	765	4850			COMGILL STEELHEAD
122025	82		QUINSAM R	BC	BCFW	21887	05/83	850712	850712	47	30	N	175	31	E	714	3450	1	M	COMGILL STEELHEAD
122034	82		ROSEWALL CR	BC	BCFW	1082	05/83	850721	850721	49	24	N	172	41	E	785	4650			COMGILL STEELHEAD
122046	82		ROSEWALL CR	BC	BCFW	819	05/83	850719	850719	49	28	N	174	44	E	748	4250			COMGILL STEELHEAD
122114	83		SOMASS R	BC	BCFW	25725	04/84	850708	850708	51	00	N	155	00	W	562	1760		F	RESGILL STEELHEAD
122117	83		SOMASS R	BC	BCFW	26304	04/84	850710	850710	49	00	N	155	00	W	594	1940		F	RESGILL STEELHEAD
211615	83		HOH R	WA	HOH	4642	05/84	850709	850709	50	00	N	155	00	W	540	1900		F	RESGILL STEELHEAD
620517	82		WYNOOCHEE R	WA	WDG	23209	04/83	850723	850723	49	45	N	173	00	E	835	5700	61	M	COMGILL STEELHEAD

RELEASE DATA WERE OBTAINED FROM PACIFIC MARINE FISHERIES COMMISSION REGIONAL MARK PROCESSING CENTER.  
SEE TABLE 4 FOR TAGGING AGENCIES.



TABLE B. RELEASE AND RECOVERY INFORMATION FOR CODED-WIRE TAGGED SALMONIDS RECOVERED FROM THE NORTH PACIFIC OCEAN  
 GONAD WEIGHT LESS THAN 100 CODED AS 1; BLANK=NOT AVAILABLE.

RELEASE										RECOVERY									
Y	1	2	YEAR	SITE	E	V	AGENCY	TAGGED	DATE	DATE	LATITUDE	LONGITUDE	LENGTH	BODY	GONAD	SEX	GEAR	SPECIES	
								NUMBER			DEG	MIN	DEG	MIN	(mm)	(g)	(g)		

-1984-

1979	01		81	FINCH CR	WA	WDF		20493	05/82	840811	55	22	N	164	25	W	574	2100	70	M	TRAWL	CHUM
------	----	--	----	----------	----	-----	--	-------	-------	--------	----	----	---	-----	----	---	-----	------	----	---	-------	------

