

HIGH SEAS SALMONID CODED-WIRE TAG RECOVERY DATA, 1999

Katherine W. Myers and Robert V. Walker
Fisheries Research Institute
University of Washington
Box 355020
Seattle, Washington 98195

Adrian G. Celewycz and Edward V. Farley, Jr.
Auke Bay Laboratory
Alaska Fisheries Science Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
11305 Glacier Highway
Juneau, AK 99801-8626

submitted to the

NORTH PACIFIC ANADROMOUS FISH COMMISSION

by the

UNITED STATES OF AMERICA

October 1999

THIS PAPER MAY BE CITED IN THE FOLLOWING MANNER:

Myers, K.W., R.V. Walker, A.G. Celewycz, and E.V. Farley, Jr. 1999. High seas salmonid coded-wire tag recovery data, 1999. (NPAFC Doc. 411.) FRI-UW-9911. Fisheries Research Institute, University of Washington, Seattle, WA. 31 p.

ABSTRACT

Information on high seas recoveries of coded-wire tagged (CWT) salmonids has been reported annually to the International North Pacific Fisheries Commission (1981-1992) and to the North Pacific Anadromous Fish Commission (1993-present). In this document, release and recovery data for 390 CWT salmonids are reported for the first time. Reported recoveries are from U.S. commercial groundfish (trawl) fishery operations (339 recoveries) in 1995 and 1997-1999 and U.S. and Japanese high seas research vessel operations (51 recoveries) in 1997-1999. The data include the first two reported recoveries of California (Sacramento River Basin) chinook salmon in the Bering Sea (north side of Unimak Pass).

INTRODUCTION

The North Pacific Anadromous Fish Commission (NPAFC) coordinates the examination of high seas commercial and research catches for salmonids that might contain a coded-wire tag (CWT). Recoveries of coded-wire tagged salmonids in the North Pacific Ocean and Bering Sea have been reported annually to the International North Pacific Fisheries Commission (Dahlberg 1981-82; Wertheimer and Dahlberg 1983-84; Dahlberg and Fowler 1985; Dahlberg et al. 1986-92; Margolis 1985; Margolis et al. 1989; McKinnell et al. 1991) and to the North Pacific Anadromous Fish Commission (Dahlberg et al. 1993-97, Myers et al. 1998). The Regional Mark Processing Center, Pacific States Marine Fisheries Commission, incorporates the high seas CWT recovery data into their coastwide, on-line CWT recovery data set (Regional Mark Information System (RMIS); http://www.psmfc.org/rmpc/cwt_reports.html). In this document, we summarize previously unreported data for CWT salmonids recovered aboard commercial groundfish vessels in the U.S. Exclusive Economic Zone (1995 and 1997-1999) and U.S. and Japanese salmon research vessels in the North Pacific Ocean (1997-1999).

RESULTS AND DISCUSSION

Release and recovery data for 339 CWT salmon recovered from incidental salmon catches by the U.S. commercial groundfish (trawl) fishery in the U.S. Exclusive Economic Zone in 1995 (1 coho and 17 chinook), 1997 (28 chinook), 1998 (174 chinook), and 1999 (119 chinook) are listed in Table 1. Some CWT chinook salmon were recovered in processing plants from combined catches of several vessels; therefore, in those cases the recovery locations appear as National Marine Fisheries Service (NMFS) statistical areas (Figs. 1 and 2). Release and recovery data for 51 CWT salmonids recovered during U.S. and Japanese salmon research vessel operations in the North Pacific Ocean in 1997 (1 steelhead), 1998 (1 sockeye, 22 coho, 15 chinook, and 10 steelhead), and 1999 (2 chinook) are listed in Table 2. The number of recoveries is summarized by species, oceanic region of recovery, and release location (state or province) in Tables 3 and 4.

U.S. scientists periodically prepare reports and maps for NPAFC based on historical high-seas salmonid tag recoveries, which describe the known ocean ranges of major regional stocks of Asian and North American salmonids (for example, Myers et al. 1996). The most significant new information pertaining to ocean distribution and migration patterns of salmon is the recovery of two California (Sacramento River Basin)

chinook salmon in the Bering Sea (north side of Unimak Pass) in May 1998 (Tag codes 0501020201 and 0601140510, Table 1). There is no prior information from tagging or other stock identification studies to indicate that California chinook salmon migrate to the Bering Sea. The northwestern limit of the known ocean range of California chinook salmon (Sacramento R.) was established by a CWT salmon recovery in the Gulf of Alaska near Kodiak Island (152°17'W, 56°53'N) in November 1984 (Dahlberg and Fowler 1985). The new recoveries are a westward range extension of 790 km (great circle distance) from this previous recovery.

ACKNOWLEDGMENTS

Fishermen, processors, observers, and scientists who participated in the 1999 high-seas CWT recovery program are gratefully acknowledged. The North Pacific Groundfish Observer Program, Alaska Fisheries Science Center (AFSC), NMFS, provided snout samples from salmonids lacking the adipose fin and recovery data collected by observers from the U.S. groundfish fishery. Jerry Berger, AFSC, provided coding information on NMFS statistical areas. The Fisheries Agency of Japan and Hokkaido University provided salmonid head samples and accompanying biological and catch data from Japanese salmon research vessels (*Hokko maru*, *Hokusei maru*, *Oshoro maru*, and *Wakatake maru*). Ryan Scott dissected snouts and read CWTs. The Washington Department of Fish and Wildlife provided release data on their CWT tag codes not currently listed in the RMIS CWT release data set. Auke Bay Laboratory, AFSC, NMFS, provided funding to FRI for compilation and reporting of CWT release and recovery data (NOAA contract No. 50ABNF700003).

LITERATURE CITED

- 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. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 6 p.
- 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 during 1980-1982. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 11 p.
- Dahlberg, M. L., and S. Fowler. 1985. 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 INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 16 p.
- Dahlberg, M. L., F.P. Thrower, and S. Fowler. 1986. Incidence of coded-wire-tagged salmonids in catches of foreign commercial and research vessels operating in the North Pacific Ocean and Bering Sea in 1985-1986 INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 26 p.
- Dahlberg, M. L., F. P. Thrower, and S. Fowler. 1987. Incidence of coded-wire-tagged salmonids in catches of foreign commercial and research vessels operating in the North

- Pacific Ocean and Bering Sea during 1986-1987. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 50 p.
- Dahlberg, M. L., S. Fowler, F. P. Thrower, and R. Heintz. 1988. Incidence of coded-wire tagged salmonids in catches of foreign commercial and research vessels operating in the North Pacific Ocean and Bering Sea during 1987-1988. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 29 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1989. Incidence of coded-wire tagged salmonids in catches of commercial and research vessels operating in the North Pacific Ocean and Bering Sea in 1988-1989. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 33 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1990. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1989-1990. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 19 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1991. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1990-1991. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 17 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1992. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1991-1992. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 12 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1993. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1992-1993. NPAFC Doc. 34. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 15 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1994. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1993-1994. NPAFC Doc. 68. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 16 p.
- Dahlberg, M. L., S. Fowler, N. Maloney, and R. Heintz. 1995. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1994-1995. NPAFC Doc. 153. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 14 p.
- Dahlberg, M. L., S. Fowler, and R. Heintz. 1996. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1995-1996. NPAFC Doc. 220. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 12 p.
- Dahlberg, M. L., S. Fowler, and F. Thrower. 1997. Incidence of coded-wire tagged salmonids in commercial and research catches in the North Pacific Ocean and Bering Sea, 1996-

1997. NPAFC Doc. 276. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 12 p.
- Margolis, L. 1985. Recoveries of coded wire-tagged steelhead trout, *Salmo gairdneri*, in the central and western North Pacific Ocean in 1984, and recoveries of other fin-clipped or maxillary-clipped steelhead in 1983 and 1984 by Japanese research vessels. INPFC Doc. Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, British Columbia. 7 p.
- Margolis, L., T. E. McDonald, and N. B. Hargreaves. 1989. Recoveries of coded-wire tagged and fin- and maxillary-marked salmonids in Canadian research and experimental fishing operations in the eastern North Pacific Ocean during 1985-1988, and coded-wire tagged steelhead trout in port sampling of salmonid catches from the Japanese landbased salmon fishery, 1987 and 1988. INPFC Doc. Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, British Columbia. 7 p.
- McKinnell, S.M., M.L. Dahlberg, and Y. Ishida. 1991. Incidence of coded-wire tagged salmonids in the 1991 Japanese squid driftnet fishery. INPFC Doc. Joint report by the national Sections of Canada, Japan, and the United States. 2 p.
- Myers, K.W., K.Y. Aydin, R.V. Walker, S. Fowler, and M.L. Dahlberg. 1996. Known ocean ranges of stock of Pacific salmon and steelhead as shown by tagging experiments, 1956-95. NPAFC Doc. 192. FRI-UW-9614. Fisheries Research Institute, University of Washington, Seattle, WA. 4 p. + figs. and appends.
- Myers, K.W., R.V. Walker, A.G. Celewycz, and E.V. Farley, Jr. 1998. Incidence of coded-wire tagged salmonids in commercial catches in the North Pacific Ocean and Bering Sea, 1997-1998. NPAFC Doc. 351. FRI-UW-9811. Fisheries Research Institute, University of Washington, Seattle, WA. 8 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. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 14 p.
- Wertheimer, A. C., and M. L. Dahlberg. 1984. 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. INPFC Doc. Auke Bay Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Juneau. 14 p.

Table 1. Release and recovery information for coded-wire tagged salmon caught in commercial trawls in the U.S. 200-mile zone. All recoveries in the table are reported for the first time (1 September 1998 - 31 August 1999 reporting period). ADFG=Alaska Department of Fish and Game, CDFG=California Dept. Fish and Game, CDFO = Canada Dept. of Fisheries and Oceans, COOP=Cooperative - agency releases, EBMD=East Bay Municipal Utilities District, FWS=US Fish and Wildlife Service, KTHC=Ketchikan Tribal Hatchery Corporation, HVT=Hoopa Valley Tribe, MAK=MAK=Klamath Tribe, MUCK=Muckleshoot Tribe, NEZP=Nez Perce Tribe, NISQ=Nisqually Tribe, NMFS=National Marine Fisheries Service, NSRA=Northern Southeast Regional Aquaculture Assoc., ODFW=Oregon Dept. Fish and Wildlife, PGAM=Port Gamble S'Klallam Tribe, QDNR=Quinalt Dept. of Natural Resources, SSRA=Southern Southeast Regional Aquaculture Assn., SUQ=Suquamish Indian Tribe, WDFW=Washington Dept. Fish and Wildlife. TSFT= body length measurement from the tip of the snout to the fork of the tail, WT=whole body weight, D=degree, M=minute. Statistical recovery areas are shown in Figs. 1 and 2.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT	LONG	TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION					
								D	M	D	M	DIR							
213049	COHO	95	AGATE PASS SEA PENS	WA	SUQ	46057	970511	48	24	124	51	W							
020314	CHINOOK	91	R-ADAMS RIVER UPPER	BC	CDFO	75839	920519	56	45	154	22	W							
020521	CHINOOK	91	R-CEDAR RIVER/SKEENA	BC	CDFO	25775	930415	57	10	152	28	W							
026343	CHINOOK	91	R-BABINE R, UPPER	BC	CDFO	20870	930505	57	10	152	28	W							
026343	CHINOOK	91	R-BABINE R, UPPER	BC	CDFO	20870	930505					W							
032245	CHINOOK	95	L PORT WALTER 109-10	AK	NMFS	15499	970515	57	40	154	22	W							
032246	CHINOOK	95	L PORT WALTER 109-10	AK	NMFS	11748	970515	57	29	154	39	W							
032306	CHINOOK	95	L PORT WALTER 109-10	AK	NMFS	7747	970516	56	24	158	4	W							

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M	D	M	D	M						
036220	CHINOOK	94	L PORT WALTER 109-10	AK	NMFS	14248	960517	58	41	153	19	W		550	1700	M	TRAWL	GULF OF ALASKA	
043829	CHINOOK	95	UNUK R 101-75	AK	ADFG	12517	970401	57	32	154	39	W		620	3300	F	TRAWL	GULF OF ALASKA	
044213	CHINOOK	93	UNUK R 101-75	AK	ADFG	3227	950410	56	25	158	12	W		850	9000	F	TRAWL	GULF OF ALASKA	
044234	CHINOOK	94	TAKU R 111-32	AK	ADFG	10224	960501	56	56	155	3	W		660	4400	F	TRAWL	GULF OF ALASKA	
044325	CHINOOK	93	KASNYKU BAY 112-11	AK	NSRA	27876	950606	60	13	147	0	W		660	3800	F	TRAWL	GULF OF ALASKA	
044329	CHINOOK	93	BEAR COVE 113-41	AK	NSRA	9666	950519	AREA 620				W		770	6050	F	TRAWL	GULF OF ALASKA	
044432	CHINOOK	93	EARL WEST COV 107-40	AK	ADFG	28681	950521	59	59	148	22	W		800	7300	F	TRAWL	GULF OF ALASKA	
044504	CHINOOK	94	KETCHIKAN CR 101-47	AK	KTHC	10310	960515	56	29	165	50	W		700	4800	F	TRAWL	BERING SEA	
044532	CHINOOK	95	EARL WEST COV 107-40	AK	ADFG	18555	970528	57	32	154	38	W		570	2200	M	TRAWL	GULF OF ALASKA	
044533	CHINOOK	94	BEAR COVE 113-41	AK	NSRA	21119	960516	55	48	158	55	W		640	3350	F	TRAWL	GULF OF ALASKA	
044544	CHINOOK	94	NEETS BAY 101-90	AK	SSRA	6842	960603	AREA 620				W		810	7700	M	TRAWL	GULF OF ALASKA	
044610	CHINOOK	94	CRYSTAL CR 106-44	AK	ADFG	24117	960516	60	0	148	21	W		500	1600	F	TRAWL	GULF OF ALASKA	
044611	CHINOOK	94	CRYSTAL CR 106-44	AK	ADFG	26311	960516	60	13	147	41	W		510	2000	F	TRAWL	GULF OF ALASKA	
044633	CHINOOK	95	TAKU R 111-32	AK	ADFG	10064	970508	55	2	160	23	W		470	1100	F	TRAWL	GULF OF ALASKA	
044701	CHINOOK	95	BEAR COVE 113-41	AK	NSRA	53689	970520	57	36	154	40	W		570	2000	F	TRAWL	GULF OF ALASKA	
044701	CHINOOK	95	BEAR COVE 113-41	AK	NSRA	53689	970520	55	19	165	8	W		750			TRAWL	BERING SEA	
044701	CHINOOK	95	BEAR COVE 113-41	AK	NSRA	53689	970520	57	05	152	26	W		562	2900	M	TRAWL	GULF OF ALASKA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M		D	M							
044701	CHINOOK	95	BEAR COVE 113-41	AK	NSRA	53689	970520	57	34	154	38	W		630	3500		TRAWL	GULF OF ALASKA	
044711	CHINOOK	95	KASNYKU BAY 112-11	AK	NSRA	89430	970527	57	7	152	28	W		530	2000		TRAWL	GULF OF ALASKA	
044711	CHINOOK	95	KASNYKU BAY 112-11	AK	NSRA	89430	970527	57	14	154	54	W		680	3800	F	TRAWL	GULF OF ALASKA	
044711	CHINOOK	95	KASNYKU BAY 112-11	AK	NSRA	89430	970527	56	31	155	38	W		750	4800	M	TRAWL	GULF OF ALASKA	
044711	CHINOOK	95	KASNYKU BAY 112-11	AK	NSRA	89430	970527	57	45	154	10	W		640	3450	M	TRAWL	GULF OF ALASKA	
044718	CHINOOK	95	CRYSTAL CR 106-44	AK	ADFG	9821	970529	57	18	152	28	W		520	1900		TRAWL	GULF OF ALASKA	
044738	CHINOOK	95	KETCHIKAN CR 101-47	AK	KTHC	9024	970515	56	46	155	10	W		520	2800	M	TRAWL	GULF OF ALASKA	
044757	CHINOOK	95	HERRING COVE 101-45	AK	SSRA	10868	970516	57	29	154	39	W		570	2340	F	TRAWL	GULF OF ALASKA	
0501011207	CHINOOK	94	COLEMAN NFH	CA	FWS	50036	950424	43	16	124	44	W		720	6200	F	TRAWL	NE NORTH PACIFIC	
0501011211	CHINOOK	95	LTL WHITE SALMON@NFH	WA	FWS	196920	960627	56	45	155	12	W		600	2800	F	TRAWL	GULF OF ALASKA	
0501011211	CHINOOK	95	LTL WHITE SALMON@NFH	WA	FWS	196920	960627	57	41	154	21	W		610	3000	F	TRAWL	GULF OF ALASKA	
0501020201	CHINOOK	95	COLEMAN NFH	CA	FWS	268960	960423	54	54	165	19	W		630	3200	M	TRAWL	BERING SEA	
0501020201	CHINOOK	95	COLEMAN NFH	CA	FWS	268960	960423	48	3	125	22	W		600	2500	F	TRAWL	NE NORTH PACIFIC	
0501020202	CHINOOK	95	RINGOLD POND (TROUT)	WA	WDFW	187818	960627	57	45	154	11	W		574	2100	M	TRAWL	GULF OF ALASKA	
0501020205	CHINOOK	95	NOT REPORTED	WA	FWS		960523	56	24	158	7	W		570	3250	F	TRAWL	GULF OF ALASKA	
0501020406	CHINOOK	96	RINGOLD POND (TROUT)	WA	WDFW	196887	970615	48	24	124	54	W		402	750	M	TRAWL	NE NORTH PACIFIC	
0501020406	CHINOOK	96	RINGOLD POND (TROUT)	WA	WDFW	196887	970615	48	27	124	47	W		380	700	M	TRAWL	NE NORTH PACIFIC	
0501020406	CHINOOK	96	RINGOLD POND (TROUT)	WA	WDFW	196887	970615	57	27	154	46	W		530	1600	M	TRAWL	GULF OF ALASKA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION		
								D	M	D	M	DIR							
0501020406	CHINOOK	96	RINGOLD POND (TROUT)	WA	WDFW	196887	970615	57	34	154	38	W		510	2000		TRAWL	GULF OF ALASKA	
053861	CHINOOK	95	COOK CR 21.0429	WA	FWS	46811	960722	54	45	165	40	W		500	1650	M	TRAWL	BERING SEA	
053953	CHINOOK	95	COOK CR 21.0429	WA	FWS	49274	960722	57	38	154	24	W		650	6500	F	TRAWL	GULF OF ALASKA	
054125	CHINOOK	96	COLEMAN NFH	CA	FWS	57739	970116	48	20	125	15	W		440	1000	F	TRAWL	NENORTH PACIFIC	
054345	CHINOOK	96	SPRING CR 29.0159	WA	FWS	70566	970515	48	11	124	57	W		570	2400	M	TRAWL	NENORTH PACIFIC	
054346	CHINOOK	96	SPRING CR 29.0159	WA	FWS	71227	970515	48	24	124	51	W		400	700	F	TRAWL	NENORTH PACIFIC	
054453	CHINOOK	96	METHOW R 48.0002	WA	FWS	106197	980414	56	56	155	3	W		330	600	M	TRAWL	GULF OF ALASKA	
0601020206	CHINOOK	95	IRON GATE HATCHERY	CA	CDFG	53477	961112	48	21	125	2	W		460	1200		TRAWL	NENORTH PACIFIC	
0601080314	CHINOOK	92	HORSELINTO CREEK	CA	CDFG	33931	930620	43	54	124	36	W		540	2100	M	TRAWL	NENORTH PACIFIC	
0601080406	CHINOOK	92	JUNCTION CITY	CA	CDFG	4914	930518	43	53	124	45	W		510	1500	F	TRAWL	NENORTH PACIFIC	
0601140508	CHINOOK	95	RODEO MINOR PORT	CA	CDFG	47188	960709	44	47	124	39	W		680	4300	M	TRAWL	NENORTH PACIFIC	
0601140510	CHINOOK	95	RODEO MINOR PORT	CA	CDFG	49410	960709	54	44	165	13	W		590	2200	M	TRAWL	BERING SEA	
0601140604	CHINOOK	95	YUBA CITY	CA	CDFG	50371	960515	43	55	124	58	W		541	1750	F	TRAWL	NENORTH PACIFIC	
0601140605	CHINOOK	95	FEATHER RIVER	CA	CDFG	53526	960405	48	16	124	57	W		680		F	TRAWL	NENORTH PACIFIC	
060217	CHINOOK	95	THORNTON	CA	EBMD	52123	960515	47	46	125	7	W		900	10300		TRAWL	NENORTH PACIFIC	
060218	CHINOOK	95	JERSEY PT,SAN JOAQR	CA	EBMD	50832	960520	48	20	124	51	W		535	1600	M	TRAWL	NENORTH PACIFIC	
060219	CHINOOK	95	JERSEY PT,SAN JOAQR	CA	EBMD	52389	960520	AREA 670				W					TRAWL	NENORTH PACIFIC	
060228	CHINOOK	95	RODEO MINOR PORT	CA	EBMD	52608	960606	48	19	124	57	W		910		F	TRAWL	NENORTH PACIFIC	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	STATE/ PROV	RELEASE SITE	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M		D	M							D
060230	CHINOOK	96	CA	RODEO MINOR PORT	EBMD	50235	970602	48	17	124	55	W	610	2800	M	TRAWL	NE NORTH PACIFIC		
060230	CHINOOK	96	CA	RODEO MINOR PORT	EBMD	50235	970602	47	38	124	57	W	600	2500	F	TRAWL	NE NORTH PACIFIC		
062936	CHINOOK	95	CA	MOSS LANDING MIN. PT	CDFG	58815	960703	44	11	124	59	W	680	4600	M	TRAWL	NE NORTH PACIFIC		
062937	CHINOOK	95	CA	RODEO MINOR PORT	CDFG	150089	960626	48	4	125	18	W	590	2600	F	TRAWL	NE NORTH PACIFIC		
062937	CHINOOK	95	CA	RODEO MINOR PORT	CDFG	150089	960626	45	59	124	43	W	690	3820		TRAWL	NE NORTH PACIFIC		
062938	CHINOOK	95	CA	RODEO MINOR PORT	CDFG	149440	960626	46	39	124	43	W	950	6940		TRAWL	NE NORTH PACIFIC		
063136	CHINOOK	92	CA	GEORGIANNA SLOUGH	CDFG	51560	930510	46	17	124	41	W	530	1800	M	TRAWL	NE NORTH PACIFIC		
063151	CHINOOK	94	CA	STEWART ROAD	CDFG	50265	950505	47	50	125	16	W	895	11050	M	TRAWL	NE NORTH PACIFIC		
065226	CHINOOK	95	CA	TRINITY R HATCHERY	HVT	110327	961001	44	8	124	57	W	520	1400	F	TRAWL	NE NORTH PACIFIC		
065734	CHINOOK	92	CA	TRINITY R HATCHERY	CDFG	53675	931001	43	9	124	48	W	550	1900	M	TRAWL	NE NORTH PACIFIC		
065735	CHINOOK	92	CA	TRINITY R HATCHERY	CDFG	56281	931001	43	53	124	45	W	560	2000	F	TRAWL	NE NORTH PACIFIC		
065735	CHINOOK	92	CA	TRINITY R HATCHERY	CDFG	56281	931001	43	53	124	45	W	470	1100	F	TRAWL	NE NORTH PACIFIC		
065735	CHINOOK	92	CA	TRINITY R HATCHERY	CDFG	56281	931001	43	53	124	45	W	490	1400	F	TRAWL	NE NORTH PACIFIC		
070423	CHINOOK	92	OR	ELK RIVER	ODFW	36278	931129	43	53	124	44	W	590	2000	F	TRAWL	NE NORTH PACIFIC		
070423	CHINOOK	92	OR	ELK RIVER	ODFW	36278	931129	43	50	124	33	W	480	1300	M	TRAWL	NE NORTH PACIFIC		
070425	CHINOOK	92	OR	ELK RIVER	ODFW	32475	931116	45	19	124	23	W	588	3400	M	TRAWL	NE NORTH PACIFIC		
070450	CHINOOK	94	OR	MCKENZIE R-I	ODFW	30170	960208	57	4	152	23	W	660	3300	F	TRAWL	GULF OF ALASKA		
070542	CHINOOK	94	OR	BIG CR - L COL. R	ODFW	26881	950829	43	16	124	42	W	640	3100	F	TRAWL	NE NORTH PACIFIC		

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION		
								D	M	D	M	DIR							
070752	CHINOOK	95	UMPQUA R	OR	ODFW	80680	961001	57	36	154	40	W	520	2600	M	TRAWL	GULF OF ALASKA		
070752	CHINOOK	95	UMPQUA R	OR	ODFW	80680	961001	57	18	154	53	W	620	3250	F	TRAWL	GULF OF ALASKA		
070854	CHINOOK	94	ELK R	OR	ODFW	194243	950928	47	29	124	50	W	720	5500	F	TRAWL	NE NORTH PACIFIC		
070857	CHINOOK	94	SANTIAM R, S FK	OR	ODFW	30113	960311	55	8	160	15	W	620	3100	M	TRAWL	GULF OF ALASKA		
070858	CHINOOK	94	SANTIAM R, S FK	OR	ODFW	30533	960205	AREA 610				W		7000	M	TRAWL	GULF OF ALASKA		
070932	CHINOOK	94	HUNTER CR - S COAST	OR	ODFW	23918	951017	44	45	124	37	W	580	2610	F	TRAWL	NE NORTH PACIFIC		
070957	CHINOOK	94	TRASK R	OR	ODFW	25438	950817	46	49	124	54	W	870		F	TRAWL	NE NORTH PACIFIC		
070962	CHINOOK	94	SALMON R/OR - COAST	OR	ODFW	172256	950814	57	38	154	34	W	770	7400	F	TRAWL	GULF OF ALASKA		
071151	CHINOOK	94	SANDY R	OR	ODFW	23634	960311	56	24	157	54	W	470	1710	M	TRAWL	GULF OF ALASKA		
071251	CHINOOK	96	BIG CR - L COL R	OR	ODFW	217574	970505	48	21	124	52	W	395	700	M	TRAWL	NE NORTH PACIFIC		
071252	CHINOOK	95	SALMON R/OR - COAST	OR	ODFW	171301	960815	55	17	164	21	W	460	1300	M	TRAWL	BERING SEA		
071252	CHINOOK	95	SALMON R/OR - COAST	OR	ODFW	171301	960815	56	45	155	12	W	680	4400	F	TRAWL	GULF OF ALASKA		
071334	CHINOOK	95	MORGAN CR (COOS R)	OR	ODFW	23556	960915	54	58	165	3	W	480	1640	F	TRAWL	BERING SEA		
071357	CHINOOK	95	CLACKAMAS R	OR	ODFW	29211	970320	47	46	125	2	W	700	3690	M	TRAWL	NE NORTH PACIFIC		
075737	CHINOOK	92	BIG CR - L COL R	OR	ODFW	51797	930825	46	41	124	47	W	496	1300	F	TRAWL	NE NORTH PACIFIC		
091748	CHINOOK	95	UMATILLAR	OR	ODFW	25260	970325	57	32	154	38	W	520	2300	F	TRAWL	GULF OF ALASKA		
091850	CHINOOK	96	TRASK R	OR	ODFW	25695	970819	57	27	154	46	W	500	1260	M	TRAWL	GULF OF ALASKA		
091851	CHINOOK	96	TRASK R	OR	ODFW	25801	970819	57	40	154	22	W	460	1500	M	TRAWL	GULF OF ALASKA		

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M	D	M	D	DIR						
092120	CHINOOK	96	SANTIAM R, S FK	OR	ODFW	52336	971028	57	39	154	21	W	540	1900	M		TRAWL	GULFOF ALASKA	
092148	CHINOOK	96	ELK RIVER	OR	ODFW	175967	970826	57	41	154	21	W	410	900	M		TRAWL	GULFOF ALASKA	
092148	CHINOOK	96	ELK RIVER	OR	ODFW	175967	970826	57	49	154	11	W	480	1700	F		TRAWL	GULFOF ALASKA	
092149	CHINOOK	96	SALMON R/OR - COAST	OR	ODFW	194096	970814	55	17	164	51	W	420	1200	F		TRAWL	BERING SEA	
092149	CHINOOK	96	SALMON R/OR - COAST	OR	ODFW	194096	970814	57	40	154	22	W	480	2000	F		TRAWL	GULFOF ALASKA	
092215	CHINOOK	96	YOUNGS R & BAY	OR	ODFW	49392	980401	57	40	154	20	W	490	1500	M		TRAWL	GULFOF ALASKA	
092215	CHINOOK	96	YOUNGS R & BAY	OR	ODFW	49392	980401	57	49	154	11	W	460	1100	F		TRAWL	GULFOF ALASKA	
092241	CHINOOK	96	MCKENZIE R-1	OR	ODFW	35705	971111	57	49	154	11	W	440	1400	F		TRAWL	GULFOF ALASKA	
092242	CHINOOK	96	MCKENZIE R-1	OR	ODFW	28685	980305	57	39	154	21	W	470	1300	M		TRAWL	GULFOF ALASKA	
092247	CHINOOK	96	MCKENZIE R-1	OR	ODFW	46287	980205	57	29	154	44	W	450	1200	F		TRAWL	GULFOF ALASKA	
092250	CHINOOK	96	MCKENZIE R-1	OR	ODFW	149671	971111	57	34	154	38	W	440	1500			TRAWL	GULFOF ALASKA	
092250	CHINOOK	96	MCKENZIE R-1	OR	ODFW	149671	971111	57	40	154	22	W	480	1600	F		TRAWL	GULFOF ALASKA	
092250	CHINOOK	96	MCKENZIE R-1	OR	ODFW	149671	971111	57	47	154	9	W	500	1300	F		TRAWL	GULFOF ALASKA	
092319	CHINOOK	96	SANTIAM R & N FK-1	OR	ODFW	244804	980302	57	49	154	11	W	450	1400	M		TRAWL	GULFOF ALASKA	
092320	CHINOOK	96	SANTIAM R & N FK-1	OR	ODFW	407781	980302	AREA 620				W	450	1000	F		TRAWL	GULFOF ALASKA	
092320	CHINOOK	96	SANTIAM R & N FK-1	OR	ODFW	407781	980302	57	40	154	22	W	450	1300	M		TRAWL	GULFOF ALASKA	
092320	CHINOOK	96	SANTIAM R & N FK-1	OR	ODFW	407781	980302	57	29	154	43	W	440	1100	F		TRAWL	GULFOF ALASKA	
1301040102	CHINOOK	95	WILLOW CR 247-41	AK	ADFG	13474	960928	55	02	160	24	W	420	1000	F		TRAWL	GULFOF ALASKA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION		
								D	M	D	M	DIR							
180431	CHINOOK	91	R-HIRSCH CREEK	BC	CDFO	28463	920501	55	20	164	58	W		680	3800	F	TRAWL	BERING SEA	
180611	CHINOOK	92	R-BABINE R, UPPER	BC	CDFO	10235	940429	54	55	160	19	W		830	7600	F	TRAWL	GULF OF ALASKA	
180634	CHINOOK	94	R-NAHMINT RIVER	BC	CDFO	29280	950515	56	25	158	0	W		780	6700	F	TRAWL	GULF OF ALASKA	
180640	CHINOOK	94	R-KITSUMKALUM R	BC	CDFO	30010	950613	55	5	165	25	W		830	6990	M	TRAWL	BERING SEA	
180642	CHINOOK	94	R-KITSUMKALUM R	BC	CDFO	30867	950613	AREA 620				W		700	4700	M	TRAWL	GULF OF ALASKA	
181229	CHINOOK	94	R-ATNARKO SPAWN CHAN	BC	CDFO	58670	950606	AREA 620				W		657	4600	M	TRAWL	GULF OF ALASKA	
181229	CHINOOK	94	R-ATNARKO SPAWN CHAN	BC	CDFO	58670	950606	54	26	158	7	W		750	5500	F	TRAWL	GULF OF ALASKA	
181237	CHINOOK	93	R-ATNARKO R LOWER	BC	CDFO	58496	940612	56	29	155	36	W		840	7500	F	TRAWL	GULF OF ALASKA	
181238	CHINOOK	93	R-ATNARKO SPAWN CHAN	BC	CDFO	56041	950511	55	06	165	16	W		840	7800	F	TRAWL	BERING SEA	
181238	CHINOOK	93	R-ATNARKO SPAWN CHAN	BC	CDFO	56041	950511	55	47	158	57	W		800	9100	F	TRAWL	GULF OF ALASKA	
181240	CHINOOK	94	R-BULKLEY R UPPER	BC	CDFO	88058	960430	57	3	152	22	W		490	1700	F	TRAWL	GULF OF ALASKA	
181318	CHINOOK	94	R-KILBELLA BAY	BC	CDFO	41217	950616	56	25	158	12	W		810	8300	F	TRAWL	GULF OF ALASKA	
181346	CHINOOK	95	R-NITINAT LAKE	BC	CDFO	27741	960504	55	2	160	25	W		630	3500	F	TRAWL	GULF OF ALASKA	
181348	CHINOOK	95	R-NITINAT LAKE	BC	CDFO	27723	960606	55	08	166	30	W		471	1225	F	TRAWL	BERING SEA	
181348	CHINOOK	95	R-NITINAT LAKE	BC	CDFO	27723	960606	54	53	160	17	W		520	1900	F	TRAWL	GULF OF ALASKA	
181349	CHINOOK	95	R-NITINAT RIVER	BC	CDFO	26435	960608	56	56	155	3	W		670	5000	F	TRAWL	GULF OF ALASKA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION													
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION					
								D	M	D	M	D	M	DIR									
181424	CHINOOK	93	R-KITSUMKALUM R	BC	CDFO	50119	940602	970904 AREA 610										W	830	7800	F	TRAWL	GULF OF ALASKA
181428	CHINOOK	93	R-MITCHIE CREEK	BC	CDFO	50210	940601	59	26	178		5			W	760	5400	F	TRAWL	BERING SEA			
181445	CHINOOK	93	R-QUESNEL RIVER	BC	CDFO	73231	950403	54	54	160		17			W	710	4500	F	TRAWL	GULF OF ALASKA			
181457	CHINOOK	94	R-ROBERTSON CREEK	BC	CDFO	28246	950606	56	23	157		50			W	730	7110	F	TRAWL	GULF OF ALASKA			
181459	CHINOOK	94	R-ROBERTSON CREEK	BC	CDFO	27769	950611	55	10	165		3			W	570	2600	F	TRAWL	BERING SEA			
181504	CHINOOK	94	R-DOME CREEK	BC	CDFO	25115	960410	54	42	165		40			W	520	2200	M	TRAWL	BERING SEA			
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	980903 AREA 620										W		2300	M	TRAWL	GULF OF ALASKA
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	55	0	160		29			W	540	2100	M	TRAWL	GULF OF ALASKA			
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	56	24	158		7			W	620	4300	F	TRAWL	GULF OF ALASKA			
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	990101 AREA 620										W	620	3500		TRAWL	GULF OF ALASKA
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	57	14	154		54			W	600	2700	M	TRAWL	GULF OF ALASKA			
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	57	40	154		22			W	580	3100	F	TRAWL	GULF OF ALASKA			
181514	CHINOOK	95	R-BIRKENHEAD RIVER	BC	CDFO	40392	970300	57	33	154		39			W	580	2400	M	TRAWL	GULF OF ALASKA			
181654	CHINOOK	95	R-BULKLEY R UPPER	BC	CDFO	25028	970422	57	4	152		24			W	570	2200	F	TRAWL	GULF OF ALASKA			
181655	CHINOOK	95	R-BULKLEY R UPPER	BC	CDFO	25055	970422	56	25	155		44			W	570	3100		TRAWL	GULF OF ALASKA			
181814	CHINOOK	94	R-CONUMA ESTUARY	BC	CDFO	27587	950421	55	2	160		25			W	750	8150	F	TRAWL	GULF OF ALASKA			
181816	CHINOOK	94	R-CONUMA ESTUARY	BC	CDFO	25921	950513	58	41	153		19			W	630	2800	F	TRAWL	GULF OF ALASKA			

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION		
								D	M	D	M	DIR							
181823	CHINOOK	94	R-TAHSIS RIVER	BC	CDFO	25235	950627	54	55	166	00	W	650	3700	F	TRAWL	BERING SEA		
181823	CHINOOK	94	R-TAHSIS RIVER	BC	CDFO	25235	950627	55	18	160	38	W	570	2600	M	TRAWL	GULFOF ALASKA		
181841	CHINOOK	94	R-NITINAT RIVER	BC	CDFO	32642	950606	56	24	158	7	W	770	6400	M	TRAWL	GULFOF ALASKA		
181841	CHINOOK	94	R-NITINAT RIVER	BC	CDFO	32642	950606	56	12	158	25	W	720	5600	M	TRAWL	GULFOF ALASKA		
181841	CHINOOK	94	R-NITINAT RIVER	BC	CDFO	32642	950606	55	24	157	56	W	640	5200	F	TRAWL	GULFOF ALASKA		
181860	CHINOOK	94	R-NITINAT LAKE	BC	CDFO	22479	950524	55	17	164	21	W	610	3180	F	TRAWL	BERING SEA		
181860	CHINOOK	94	R-NITINAT LAKE	BC	CDFO	22479	950524	56	23	157	49	W	680	5180		TRAWL	GULFOF ALASKA		
181861	CHINOOK	94	R-SARITA R	BC	CDFO	22441	950529	55	16	164	39	W	650	3400	F	TRAWL	BERING SEA		
181862	CHINOOK	94	R-NITINAT LAKE	BC	CDFO	21778	950512	55	17	164	21	W	720	5600	M	TRAWL	BERING SEA		
181863	CHINOOK	96	R-NITINAT LAKE	BC	CDFO	22116	970611	55	32	160	17	W	510	2000	M	TRAWL	GULFOF ALASKA		
181863	CHINOOK	96	R-NITINAT LAKE	BC	CDFO	22116	970611	57	40	154	22	W	490	1800	F	TRAWL	GULFOF ALASKA		
181904	CHINOOK	96	R-NITINAT LAKE	BC	CDFO	21315	970605	57	34	154	38	W	500	1900		TRAWL	GULFOF ALASKA		
181952	CHINOOK	94	R-NICOLA RIVER	BC	CDFO	48208	960506	54	58	164	54	W	570	1900	F	TRAWL	BERING SEA		
181952	CHINOOK	94	R-NICOLA RIVER	BC	CDFO	48208	960506	47	50	125	23	W	740	5450		TRAWL	NE NORTH PACIFIC		
181953	CHINOOK	94	R-NICOLA RIVER	BC	CDFO	49541	960506	55	15	164	45	W	540	2400	M	TRAWL	BERING SEA		
181953	CHINOOK	94	R-NICOLA RIVER	BC	CDFO	49541	960506	56	32	159	34	W	600	2800	M	TRAWL	GULFOF ALASKA		
182151	CHINOOK	95	R-CONUMA RIVER	BC	CDFO	38412	960605	56	25	157	40	W	580	3100	M	TRAWL	GULFOF ALASKA		
182152	CHINOOK	95	R-SALLOOMT RIVER	BC	CDFO	37888	960604	56	25	157	40	W	660	4100	M	TRAWL	GULFOF ALASKA		

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION
									D	M		D	M	DIR					
182156	CHINOOK	94	R-KITSUMKALUM R	BC	CDFO	30171	950613	970918	AREA 620				W	699	5100	M	TRAWL	GULF OF ALASKA	
182156	CHINOOK	94	R-KITSUMKALUM R	BC	CDFO	30171	950613	981023	54	42	165	52	W	780	7300	F	TRAWL	BERING SEA	
182220	CHINOOK	94	R-ROBERTSON CREEK	BC	CDFO	27514	950605	970926	54	41	165	26	W	540	1990	F	TRAWL	BERING SEA	
182221	CHINOOK	94	R-ROBERTSON CREEK	BC	CDFO	26885	950605	971008	54	51	164	59	W	590	3000		TRAWL	BERING SEA	
182227	CHINOOK	95	R-ROBERTSON CREEK	BC	CDFO	25675	960603	980919	56	25	158	0	W	680	4200	M	TRAWL	GULF OF ALASKA	
182231	CHINOOK	95	R-ROBERTSON CREEK	BC	CDFO	25368	960531	981009	56	23	157	41	W	750	7820	M	TRAWL	GULF OF ALASKA	
182239	CHINOOK	96	R-CAPILANO RIVER	BC	CDFO	25119	970520	980625	48	21	124	52	W	440	900	M	TRAWL	NENORTH PACIFIC	
182240	CHINOOK	96	R-CAPILANO RIVER	BC	CDFO	24919	970520	990529	48	12	124	58	W	570	2100	F	TRAWL	NENORTH PACIFIC	
182250	CHINOOK	95	R-KILBELLA BAY	BC	CDFO	51822	960623	980124	56	32	155	34	W	550	2300	M	TRAWL	GULF OF ALASKA	
182251	CHINOOK	95	R-TRANQUILLE EST	BC	CDFO	50229	960619	980915	55	2	160	23	W	620	3500	F	TRAWL	GULF OF ALASKA	
182251	CHINOOK	95	R-TRANQUILLE EST	BC	CDFO	50229	960619	980918	56	25	158	12	W	850	9000	M	TRAWL	GULF OF ALASKA	
182251	CHINOOK	95	R-TRANQUILLE EST	BC	CDFO	50229	960619	981006	56	24	158	4	W	500	1980	F	TRAWL	GULF OF ALASKA	
182251	CHINOOK	95	R-TRANQUILLE EST	BC	CDFO	50229	960619	990201	57	40	154	21	W	570	2200	F	TRAWL	GULF OF ALASKA	
182251	CHINOOK	95	R-TRANQUILLE EST	BC	CDFO	50229	960619	990217	57	18	154	53	W	610	3250	F	TRAWL	GULF OF ALASKA	
182261	CHINOOK	95	R-CHILLIWACK RIVER	BC	CDFO	49252	960529	980607	48	16	125	3	W	560	2200	F	TRAWL	NENORTH PACIFIC	
182316	CHINOOK	95	R-BABINE RIVER	BC	CDFO	11080	970430	981008	57	33	154	40	W	560	2680	F	TRAWL	GULF OF ALASKA	
182317	CHINOOK	95	R-BABINE RIVER	BC	CDFO	11086	970430	981002	56	24	158	4	W	550	3250	F	TRAWL	GULF OF ALASKA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION										
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	DATE		LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION
										D	M	D	M	D	M	DIR				
182318	CHINOOK	95	R-BABINE RIVER	BC	CDFO	10855	970430	981016	54	45	165	40	W	590	2600	M	TRAWL	BERING SEA		
182342	CHINOOK	95	R-KITSUMKALUM R	BC	CDFO	28450	960610	990202	54	58	164	58	W	650	3000	M	TRAWL	GULFOF ALASKA		
182344	CHINOOK	95	R-KITSUMKALUM R	BC	CDFO	28241	960610	980920	57	2	154	57	W	540	2400	F	TRAWL	GULFOF ALASKA		
182347	CHINOOK	95	R-BIG QUALICUM RIVER	BC	CDFO	27253	960529	980124	59	59	148	22	W	530	1800	M	TRAWL	GULFOF ALASKA		
182461	CHINOOK	95	R-SHUSWAP R. MIDDLE	BC	CDFO	75329	960528	980911	AREA 610				W	660	3400	F	TRAWL	GULFOF ALASKA		
182501	CHINOOK	96	R-SHUSWAP R. MIDDLE	BC	CDFO	74457	970528	980911	55	2	160	25	W	510	2150	F	TRAWL	GULFOF ALASKA		
182501	CHINOOK	96	R-SHUSWAP R. MIDDLE	BC	CDFO	74457	970528	990124	55	33	160	2	W	540	2500	F	TRAWL	GULFOF ALASKA		
182501	CHINOOK	96	R-SHUSWAP R. MIDDLE	BC	CDFO	74457	970528	990125	AREA 610				W	570	2200		TRAWL	GULFOF ALASKA		
182501	CHINOOK	96	R-SHUSWAP R. MIDDLE	BC	CDFO	74457	970528	990216	57	39	154	21	W	530	1900	F	TRAWL	GULFOF ALASKA		
182529	CHINOOK	96	R-ATNARKOR UPPER	BC	CDFO	25022	970609	990124	57	40	154	21	W	600	3500	M	TRAWL	GULFOF ALASKA		
182531	CHINOOK	96	R-ATNARKO SPAWN CHAN	BC	CDFO	24773	970609	980922	56	23	157	46	W	460	1300	M	TRAWL	GULFOF ALASKA		
182531	CHINOOK	96	R-ATNARKO SPAWN CHAN	BC	CDFO	24773	970609	990214	57	33	154	39	W	540	2200	F	TRAWL	GULFOF ALASKA		
182533	CHINOOK	96	R-ATNARKO SPAWN CHAN	BC	CDFO	22897	970609	981007	55	22	166	8	W	500	1900	M	TRAWL	BERING SEA		
182533	CHINOOK	96	R-ATNARKO SPAWN CHAN	BC	CDFO	22897	970609	990201	57	42	154	15	W	530	1750		TRAWL	GULFOF ALASKA		
182533	CHINOOK	96	R-ATNARKO SPAWN CHAN	BC	CDFO	22897	970609	990213	57	32	154	38	W	520	1700	M	TRAWL	GULFOF ALASKA		
182731	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	49898	970501	980917	56	24	158	7	W	590	2500	M	TRAWL	GULFOF ALASKA		

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION										OCEANIC REGION	
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	REGION			
								D	M		D	M	DIR								
182731	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	49898	970501	54	8	166	25	W		560	2400	F	TRAWL	BERING SEA			
182731	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	49898	970501	54	39	165	34	W		520	2100	F	TRAWL	BERING SEA			
182731	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	49898	970501	55	41	165	27	W		600	3200	F	TRAWL	BERING SEA			
182732	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	50275	970501	55	2	160	25	W		680	6100	M	TRAWL	GULF OF ALASKA			
182732	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	50275	970501	AREA 610				W		570	2400	M	TRAWL	GULF OF ALASKA			
182732	CHINOOK	95	R-NICOLA RIVER	BC	CDFO	50275	970501	57	29	154	43	W		610	3700	F	TRAWL	GULF OF ALASKA			
182733	CHINOOK	95	R-SALMON R/TOMPSON	BC	CDFO	50668	970430	55	2	160	23	W		520	1900	M	TRAWL	GULF OF ALASKA			
182733	CHINOOK	95	R-SALMON R/TOMPSON	BC	CDFO	50668	970430	56	27	157	45	W		560	2700	F	TRAWL	GULF OF ALASKA			
182733	CHINOOK	95	R-SALMON R/TOMPSON	BC	CDFO	50668	970430	57	40	154	20	W		560	2550	M	TRAWL	GULF OF ALASKA			
182733	CHINOOK	95	R-SALMON R/TOMPSON	BC	CDFO	50668	970430	55	33	155	58	W		620	3200	M	TRAWL	GULF OF ALASKA			
182734	CHINOOK	95	R-SPIUS CREEK	BC	CDFO	47160	970429	54	32	165	39	W		590	3350	F	TRAWL	BERING SEA			
182734	CHINOOK	95	R-SPIUS CREEK	BC	CDFO	47160	970429	54	26	165	47	W		680	3900	F	TRAWL	BERING SEA			
182754	CHINOOK	96	R-KITSUMKALUM R	BC	CDFO	29002	970618	57	7	152	23	W		540	1800		TRAWL	GULF OF ALASKA			
182833	CHINOOK	96	R-YAKOUN RIVER	BC	CDFO	26037	970707	57	49	154	11	W		570	2600	F	TRAWL	GULF OF ALASKA			
182834	CHINOOK	96	R-CHUCKWALLA RIVER	BC	CDFO	31052	970613	57	49	154	11	W		510	2000	M	TRAWL	GULF OF ALASKA			
182847	CHINOOK	96	R-CHEHALIS RIVER/BC	BC	CDFO	50954	970520	47	58	125	20	W		630	2900	M	TRAWL	NE NORTH PACIFIC			
182847	CHINOOK	96	R-CHEHALIS RIVER/BC	BC	CDFO	50954	970520	48	8	124	59	W		550	1900	M	TRAWL	NE NORTH PACIFIC			

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M		D	M							
182848	CHINOOK	96	R-CHEHALIS RIVER/BC	BC	CDFO	43221	970606	980715	48	23	124	50	W		460	1050	M	TRAWL	NE NORTH PACIFIC
182848	CHINOOK	96	R-CHEHALIS RIVER/BC	BC	CDFO	43221	970606	990614	48	15	125	12	W		610	2700	M	TRAWL	NE NORTH PACIFIC
182848	CHINOOK	96	R-CHEHALIS RIVER/BC	BC	CDFO	43221	970606	990627	48	12	124	57	W		560	2200	M	TRAWL	NE NORTH PACIFIC
182849	CHINOOK	96	R-KILDALA RIVER	BC	CDFO	53773	970506	990211	AREA 620				W		550	2200	F	TRAWL	GULF OF ALASKA
182850	CHINOOK	96	R-KITIMAT LOWER	BC	CDFO	54819	970512	980905	55	49	158	59	W		540	2300	F	TRAWL	GULF OF ALASKA
182850	CHINOOK	96	R-KITIMAT LOWER	BC	CDFO	54819	970512	990211	AREA 620				W		540	2000	M	TRAWL	GULF OF ALASKA
182850	CHINOOK	96	R-KITIMAT LOWER	BC	CDFO	54819	970512	990214	57	40	154	22	W		560	2400	F	TRAWL	GULF OF ALASKA
182855	CHINOOK	96	R-KILBELLA BAY	BC	CDFO	48714	970725	990126	57	59	152	29	W		483	1400	F	TRAWL	GULF OF ALASKA
182855	CHINOOK	96	R-KILBELLA BAY	BC	CDFO	48714	970725	990201	57	40	154	20	W			1300	M	TRAWL	GULF OF ALASKA
182857	CHINOOK	96	R-CHILLIWACK RIVER	BC	CDFO	41252	970526	980620	48	23	124	51	W		410	800	M	TRAWL	NE NORTH PACIFIC
182857	CHINOOK	96	R-CHILLIWACK RIVER	BC	CDFO	41252	970526	980814	48	25	124	56	W		480	2500	M	TRAWL	NE NORTH PACIFIC
182857	CHINOOK	96	R-CHILLIWACK RIVER	BC	CDFO	41252	970526	980815	48	14	125	11	W		440	950	M	TRAWL	NE NORTH PACIFIC
182857	CHINOOK	96	R-CHILLIWACK RIVER	BC	CDFO	41252	970526	981018	54	32	165	39	W		560	2350	F	TRAWL	BERING SEA
182857	CHINOOK	96	R-CHILLIWACK RIVER	BC	CDFO	41252	970526	990617	48	13	124	56	W		560	2100	F	TRAWL	NE NORTH PACIFIC
182858	CHINOOK	96	R-STAVE RIVER	BC	CDFO	46690	970508	990531	48	17	124	55	W		490	1300	F	TRAWL	NE NORTH PACIFIC
182858	CHINOOK	96	R-STAVE RIVER	BC	CDFO	46690	970508	990625	48	11	125	12	W		590	2600	F	TRAWL	NE NORTH PACIFIC
183147	CHINOOK	95	R-ATNARKOR UPPER	BC	CDFO	88051	960607	980615	54	50	160	17	W		570	2500	F	TRAWL	GULF OF ALASKA
183147	CHINOOK	95	R-ATNARKOR UPPER	BC	CDFO	88051	960607	980922	56	24	158	0	W		760	6200	M	TRAWL	GULF OF ALASKA

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M		D	M							DIR
183147	CHINOOK	95	R-ATNARKOR UPPER	BC	CDFO	88051	960607	55	45	164	47	W	750	4800			TRAWL	BERING SEA	
183147	CHINOOK	95	R-ATNARKOR UPPER	BC	CDFO	88051	960607	57	37	154	30	W	630	3300	F		TRAWL	GULFOF ALASKA	
183147	CHINOOK	95	R-ATNARKOR UPPER	BC	CDFO	88051	960607	57	47	154	08	W	680	4600	M		TRAWL	GULFOF ALASKA	
183148	CHINOOK	95	R-ATNARKO SPAWN CHAN	BC	CDFO	87497	960606	54	57	160	16	W	530	2000	F		TRAWL	GULFOF ALASKA	
183148	CHINOOK	95	R-ATNARKO SPAWN CHAN	BC	CDFO	87497	960606	57	38	154	34	W	660	4400	F		TRAWL	GULFOF ALASKA	
183148	CHINOOK	95	R-ATNARKO SPAWN CHAN	BC	CDFO	87497	960606	54	50	165	27	W	680	3900	F		TRAWL	BERING SEA	
183149	CHINOOK	96	R-SHUSWAP R LOWER	BC	CDFO	75714	970516	57	47	154	08	W	500	1800	M		TRAWL	GULFOF ALASKA	
183348	CHINOOK	95	R-JUDAS CR	BC	CDFO	50814	960604	57	43	173	34	W	660	3320	M		TRAWL	BERING SEA	
183355	CHINOOK	96	R-TRANQUILLE EST	BC	CDFO	50106	970630	AREAS 513/517				W	440	1400	M		TRAWL	BERING SEA	
183355	CHINOOK	96	R-TRANQUILLE EST	BC	CDFO	50106	970630	56	24	157	54	W	770	7150	M		TRAWL	GULFOF ALASKA	
183355	CHINOOK	96	R-TRANQUILLE EST	BC	CDFO	50106	970630	55	32	160	16	W	550	2500	M		TRAWL	GULFOF ALASKA	
212606	CHINOOK	94	KALAMA CR 11.0017	WA	NISQ	203635	950530	48	17	125	1	W	700	4000	F		TRAWL	NE NORTH PACIFIC	
212920	CHINOOK	94	QUINAULT LAKE (21)	WA	QDNR	73642	950626	54	37	165	35	W	610	3000	M		TRAWL	BERING SEA	
212940	CHINOOK	95	WHITER 10.0031	WA	MUCK	252670	960530	48	22	125	1	W	460	1000	F		TRAWL	NE NORTH PACIFIC	
212941	CHINOOK	95	WHITER 10.0031	WA	MUCK	75403	970415	48	25	124	54	W	480	2500	M		TRAWL	NE NORTH PACIFIC	
212941	CHINOOK	95	WHITER 10.0031	WA	MUCK	75403	970415	48	14	125	11	W	410	800	M		TRAWL	NE NORTH PACIFIC	
212946	CHINOOK	95	CLEAR CR 11.0013	WA	NISQ	215503	960506	48	19	124	56	W	650	3900	F		TRAWL	NE NORTH PACIFIC	
212948	CHINOOK	95	SALMON R 21.0139	WA	QDNR	209929	960731	56	24	158	6	W	600	4500	M		TRAWL	GULFOF ALASKA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M	D	M	D	M	DIR					
212953	CHINOOK	96	HOKOR 19.0148	WA	MAKA	81578	970617	990201	57	42	154	15	W		480	1020		TRAWL	GULFOF ALASKA
212957	CHINOOK	96	CLEAR CR 11.0013C	WA	NISQ	226046	970506	980615	48		6	125	17	W	400	800	F	TRAWL	NE NORTH PACIFIC
212957	CHINOOK	96	CLEAR CR 11.0013C	WA	NISQ	226046	970506	980625	48	24	124	51	W		410	800	F	TRAWL	NE NORTH PACIFIC
212961	CHINOOK	96	SALMON R 21.0139	WA	QDNR	206522	970729	980915	AREA 610				W		420	1000	F	TRAWL	GULFOF ALASKA
212963	CHINOOK	96	GROVERS CR 15.0299	WA	SUQ	201607	970430	980623	48	22	124	51	W		380	500	M	TRAWL	NE NORTH PACIFIC
212963	CHINOOK	96	GROVERS CR 15.0299	WA	SUQ	201607	970430	980807	48	21	125	2	W		420	800	M	TRAWL	NE NORTH PACIFIC
213037	CHINOOK	96	LTL BOSTON C 15.0350	WA	PGAM	71870	970523	990621	48	18	124	55	W		530	1750	M	TRAWL	NE NORTH PACIFIC
215512	CHINOOK	96	QUINAULT LAKE (21)	WA	QDNR	70061	970831	980921	56	50	155	6	W		460	1600	M	TRAWL	GULFOF ALASKA
312315	CHINOOK	93	HALIBUT CV LAG241-15	AK	ADFG	21035	940610	970817	54	49	165	34	W		730	4800	F	TRAWL	BERING SEA
312427	CHINOOK	94	CROOKED CR 244-30	AK	ADFG	38408	950605	970921	54	48	165	47	W		610	3400	F	TRAWL	BERING SEA
312428	CHINOOK	94	SHIP CR 247-50	AK	ADFG	38604	950524	970909	AREA 517				W					TRAWL	BERING SEA
312430	CHINOOK	94	HALIBUT CV LAG241-15	AK	ADFG	36685	950613	970930	54	43	165	37	W		620	2900	F	TRAWL	BERING SEA
312435	CHINOOK	94	NINILCHIK R 244-20	AK	ADFG	54353	950530	970921	54	45	165	50	W		680	4400	M	TRAWL	BERING SEA
312507	CHINOOK	95	HOMER SPIT 241-13	AK	ADFG	39070	960531	970926	54	39	165	27	W		490	2050	M	TRAWL	BERING SEA
312507	CHINOOK	95	HOMER SPIT 241-13	AK	ADFG	39070	960531	971012	54	43	165	35	W		510	2750	F	TRAWL	BERING SEA
312508	CHINOOK	95	SHIP CR 247-50	AK	ADFG	40108	960529	981023	54	8	166	25	W		660	4000	M	TRAWL	BERING SEA
312509	CHINOOK	95	BUSKIN R 259-21	AK	ADFG	40681	960523	971004	55	10	165	3	W		460	1300	M	TRAWL	BERING SEA
312510	CHINOOK	95	SELDOVIA HBR 241-11	AK	ADFG	39610	960612	980907	54	49	165	35	W		700	4900	F	TRAWL	BERING SEA

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION										OCEANIC REGION	
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	REGION				
								D	M	D	M	DIR									
312510	CHINOOK	95	SELDOVIA HBR 241-11	AK	ADFG	39610	960612	59	39	178	14	W	670	4080	M	TRAWL	BERING SEA				
312511	CHINOOK	95	HALIBUT CV LAG241-15	AK	ADFG	39345	960604	54	10	166	25	W	490	1600	M	TRAWL	BERING SEA				
312511	CHINOOK	95	HALIBUT CV LAG241-15	AK	ADFG	39345	960604	55	35	165	16	W			M	TRAWL	BERING SEA				
312511	CHINOOK	95	HALIBUT CV LAG241-15	AK	ADFG	39345	960604	54	50	165	42	W	710	5000	F	TRAWL	BERING SEA				
312512	CHINOOK	95	CROOKED CR 244-30	AK	ADFG	40215	960606	55	35	165	16	W	450	1000	M	TRAWL	BERING SEA				
312512	CHINOOK	95	CROOKED CR 244-30	AK	ADFG	40215	960606	AREAS 517/519				W	590	1900	M	TRAWL	BERING SEA				
312512	CHINOOK	95	CROOKED CR 244-30	AK	ADFG	40215	960606	54	40	165	59	W	630	3000	F	TRAWL	BERING SEA				
312514	CHINOOK	95	DECEPTION CR 247-41	AK	ADFG	42595	960614	54	45	165	30	W	700	8400	F	TRAWL	BERING SEA				
312514	CHINOOK	95	DECEPTION CR 247-41	AK	ADFG	42595	960614	54	36	165	36	W	620	3600	M	TRAWL	BERING SEA				
312515	CHINOOK	95	NINILCHIK R 244-20	AK	ADFG	50962	960613	54	57	164	59	W	460	1400	M	TRAWL	BERING SEA				
312515	CHINOOK	95	NINILCHIK R 244-20	AK	ADFG	50962	960613	54	45	165	24	W	680	3900	F	TRAWL	BERING SEA				
312550	CHINOOK	95	KENAI R 244-30	AK	ADFG	5629	970629	56	56	155	3	W	420	1100	M	TRAWL	GULFOF ALASKA				
312554	CHINOOK	95	KILLEY R 244-30	AK	ADFG	6255	970608	54	58	164	59	W	490	1800	M	TRAWL	BERING SEA				
312555	CHINOOK	96	CROOKED CR 244-30	AK	ADFG	39038	970529	54	17	165	59	W	480		M	TRAWL	BERING SEA				
312556	CHINOOK	96	SHIP CR 247-50	AK	ADFG	40319	970528	54	59	160	17	W	370	700	M	TRAWL	GULFOF ALASKA				
312556	CHINOOK	96	SHIP CR 247-50	AK	ADFG	40319	970528	55	4	160	18	W	480	1400	M	TRAWL	GULFOF ALASKA				
312556	CHINOOK	96	SHIP CR 247-50	AK	ADFG	40319	970528	55	2	160	25	W	440	1280	F	TRAWL	GULFOF ALASKA				
312556	CHINOOK	96	SHIP CR 247-50	AK	ADFG	40319	970528	54	7	166	26	W	490	1800	M	TRAWL	BERING SEA				

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
312557	CHINOOK	96	SELDOVIA HBR 241-11	AK	ADFG	39834	970606	57	0	154	59	W		420	1200	F	TRAWL	GULF OF ALASKA	
312557	CHINOOK	96	SELDOVIA HBR 241-11	AK	ADFG	39834	970606	AREA 620				W		480	1200	F	TRAWL	GULF OF ALASKA	
312560	CHINOOK	96	HOMER SPIT 241-13	AK	ADFG	38810	970602	57	29	154	33	W		470	1300	F	TRAWL	GULF OF ALASKA	
312603	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	47078	970611	55	1	160	26	W		480	1710	F	TRAWL	GULF OF ALASKA	
312603	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	47078	970611	56	22	157	45	W		490	1400	M	TRAWL	GULF OF ALASKA	
312604	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	47051	970611	AREA 610				W		630	1700	M	TRAWL	GULF OF ALASKA	
312604	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	47051	970611	55	16	165	23	W		500	1800	M	TRAWL	BERING SEA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	55	0	160	29	W		460	1000	F	TRAWL	GULF OF ALASKA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	56	24	158	9	W		490	1300	F	TRAWL	GULF OF ALASKA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	56	45	155	12	W		470	1800	F	TRAWL	GULF OF ALASKA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	54	29	165	39	W		500	1600	M	TRAWL	BERING SEA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	55	23	165	3	W		450	1200	M	TRAWL	BERING SEA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	54	41	165	44	W		460	1300	M	TRAWL	BERING SEA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	AREA 517				W		510	1500	M	TRAWL	BERING SEA	
312605	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	46072	970611	57	42	154	12	W		530	1450		TRAWL	GULF OF ALASKA	
312608	CHINOOK	96	NINILCHIK R 244-20	AK	ADFG	50292	970617	56	56	155	3	W		490	1600	M	TRAWL	GULF OF ALASKA	
312608	CHINOOK	96	NINILCHIK R 244-20	AK	ADFG	50292	970617	54	45	165	20	W		460	1200	F	TRAWL	BERING SEA	
312608	CHINOOK	96	NINILCHIK R 244-20	AK	ADFG	50292	970617	54	45	165	40	W		460	1200	F	TRAWL	BERING SEA	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	STATE/ PROV	RELEASE SITE	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M	D	M	D	M	DIR					
312608	CHINOOK	96	AK	NINILCHIK R 244-20	ADFG	50292	970617	57	40	154	22	W	560	2700	M		TRAWL	GULF OF ALASKA	
312635	CHINOOK	97	AK	NINILCHIK R 244-20	ADFG	47480	980615	57	47	154	08	W	290	400	F		TRAWL	GULF OF ALASKA	
630120	CHINOOK	96	WA	COL.R. @ TURTLE ROCK	WDFW	192588	970630	57	46	153	3	W	450	1200	F		TRAWL	GULF OF ALASKA	
630127	CHINOOK	96	WA	BIG SOOS CR 09.0072	WDFW	198332	970509	48	17	124	55	W	460	1200	M		TRAWL	NE NORTH PACIFIC	
630134	CHINOOK	96	WA	COLUMBIA NEAR WELLS	WDFW	197143	980415	45	49	124	40	W	490	1340			TRAWL	NE NORTH PACIFIC	
630148	CHINOOK	96	WA	PURDY CR 16.0005	WDFW	217308	970512	48	24	124	51	W	390	600	F		TRAWL	NE NORTH PACIFIC	
630148	CHINOOK	96	WA	PURDY CR 16.0005	WDFW	217308	970512	48	21	125	2	W	530	1700			TRAWL	NE NORTH PACIFIC	
630148	CHINOOK	96	WA	PURDY CR 16.0005	WDFW	217308	970512	48	19	124	57	W	450	1100	F		TRAWL	NE NORTH PACIFIC	
630160	CHINOOK	96	WA	WALLACER 07.0940	WDFW	206262	980317	47	14	124	55	W	590	1650	M		TRAWL	NE NORTH PACIFIC	
634559	CHINOOK	91	WA	COWLITZ R 26.0002	WDFW	31792	930405	46	41	124	47	W	630	2400	F		TRAWL	NE NORTH PACIFIC	
634912	CHINOOK	92	WA	SNAKER-LOWR 33.0002	WDFW	51168	940418	46	41	124	47	W	430		M		TRAWL	NE NORTH PACIFIC	
635209	CHINOOK	96	WA	FALLERT CR 27.0017	WDFW	105515	980202	57	39	154	21	W	480	1400	F		TRAWL	GULF OF ALASKA	
635529	CHINOOK	96	WA	GREEN R 09.0001	WDFW	147949	980424	48	16	124	55	W	380	700	M		TRAWL	NE NORTH PACIFIC	
635534	CHINOOK	95	WA	SIMILKAMEEN R 490325	WDFW	180826	970401	55	2	160	23	W	550	2300	F		TRAWL	GULF OF ALASKA	
635624	CHINOOK	94	WA	WHATCOM CR 01.0566	COOP	96211	950523	54	47	165	34	W	740	4800	M		TRAWL	BERING SEA	
635848	CHINOOK	94	WA	FRIDAY CR 03.0017	WDFW	92848	960301	48	8	124	59	W	700	4600	F		TRAWL	NE NORTH PACIFIC	
635958	CHINOOK	95	WA	SNAKER ABV CLARKSTN	NEZP	72137	970417	48	6	125	17	W	440	700	F		TRAWL	NE NORTH PACIFIC	
635958	CHINOOK	95	WA	SNAKER ABV CLARKSTN	NEZP	72137	970417	48	15	124	57	W	580	2600	F		TRAWL	NE NORTH PACIFIC	

Table 1. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT			LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	
								D	M		D	M	DIR						
635959	CHINOOK	95	CLWTR R, MAINSTEM	ID	NEZP	72556	970414	48	13	124	56	W		600	3100	F	TRAWL	NENORTH PACIFIC	
636002	CHINOOK	94	WILLAPA R 24.0251	WA	COOP	18885	960528	57	40	154	21	W		600	2100	F	TRAWL	GULFOF ALASKA	
636006	CHINOOK	95	KLICKITATR 30.0002	WA	WDFW	101123	960529	AREA 610				W	610	2900			TRAWL	GULFOF ALASKA	
636019	CHINOOK	95	COWLITZR 26.0002	WA	WDFW	19676	970401	48	11	124	57	W		520	1900	F	TRAWL	NENORTH PACIFIC	
636054	CHINOOK	96	COLR ROCKY R-WELLS	WA	WDFW	228703	970618	57	37	154	27	W		590	2300	F	TRAWL	GULFOF ALASKA	
636063	CHINOOK	95	KALAMAR 27.0002	WA	WDFW	82467	970401	56	24	158	7	W		610	3000	F	TRAWL	GULFOF ALASKA	
636063	CHINOOK	95	KALAMAR 27.0002	WA	WDFW	82467	970401	57	47	154	8	W		580	2500	M	TRAWL	GULFOF ALASKA	
636320	CHINOOK	95	SNAKE R.	ID	WDFW	217795	970404	48	6	125	17	W		430	900	F	TRAWL	NENORTH PACIFIC	
636320	CHINOOK	95	SNAKE R.	ID	WDFW	217795	970404	46	29	124	30	W		620	2540		TRAWL	NENORTH PACIFIC	
636320	CHINOOK	95	SNAKE R.	ID	WDFW	217795	970404	48	17	124	55	W		550	1900	F	TRAWL	NENORTH PACIFIC	
636320	CHINOOK	95	SNAKE R.	ID	WDFW	217795	970404	48	14	124	53	W		680	4600	F	TRAWL	NENORTH PACIFIC	
636320	CHINOOK	95	SNAKE R.	ID	WDFW	217795	970404	48	11	124	59	W		610	2800	F	TRAWL	NENORTH PACIFIC	
636321	CHINOOK	95	SNAKE R.	ID	WDFW	217810	970404	48	24	125	13	W		440	1000	M	TRAWL	NENORTH PACIFIC	
636321	CHINOOK	95	SNAKE R.	ID	WDFW	217810	970404	48	13	125	13	W		440	950	M	TRAWL	NENORTH PACIFIC	
636328	CHINOOK	96	COLR PRIEST- WANAPUM	WA	WDFW	192726	970618	57	40	154	20	W		480	1200		TRAWL	GULFOF ALASKA	

Table 2. Release and recovery information for coded-wire tagged salmon caught in Japanese and U.S. research trawls (RESTRAWL), gillnets (RESGILL), and longlines (RESLL) in the North Pacific Ocean and Bering Sea. All recoveries in the table are reported for the first time (1 September 1998 - 31 August 1999 reporting period). ADFG=Alaska Department of Fish and Game, CDFO = Canada Dept. of Fisheries and Oceans, DIPC=Douglas Island Pink and Chum, Inc., FWS=US Fish and Wildlife Service, IDFG=Idaho Department of Fish and Game, MIC=Metlakatla Indian Community, NSRA=Northern Southeast Regional Aquaculture Assoc., ODFW=Oregon Dept. Fish and Wildlife, QDNR=Quinalt Dept. of Natural Resources, SSRA=Southern Southeast Regional Aquaculture Assn., WDFW=Washington Dept. Fish and Wildlife, UW=College of Fisheries, University of Washington. TSFT= body length measurement from the tip of the snout to the fork of the tail, WT=whole body weight, D=degree, M=minute.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	RESEARCH VESSEL	
								D	M	D	M	DIR							
044354	SOCKEYE	92	HUGH SMITH LK 101-30	AK	ADFG	17503	950507	54	0	145	0	W	575	2600	M	RESGILL	GULF OF ALASKA	OSHO MARU	
044708	COHO	96	SHAMROCK BAY 113-32	AK	NSRA	40069	980522	59	32	144	45	W	263	320		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
044950	COHO	96	EARL WEST COV 107-40	AK	SSRA	10311	980519	56	9	134	49	W	235	190		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
044954	COHO	96	NEETS BAY 101-90	AK	SSRA	10085	980528	56	9	134	49	W	248	190		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
080161	COHO	96	R-SNOOTLI CREEK	BC	CDFO	11707	980521	56	1	135	13	W	240	146		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
092306	COHO	96	TONGUE PT. LOWER COL	OR	ODFW	18355	980501	58	50	152	20	W	296	310	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
181657	COHO	96	R-KITIMAT LOWER	BC	CDFO	28973	980427	59	7	148	25	W	272	270	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312503	COHO	94	MOOSER 244-30	AK	ADFG	11248	970530	55	0	145	0	W	634	3550	F	RESGILL	GULF OF ALASKA	OSHO MARU	
312563	COHO	95	SHIP CR 247-50	AK	ADFG	45741	970528	54	0	145	0	W	608	3400	F	RESGILL	GULF OF ALASKA	OSHO MARU	
312602	COHO	95	BIRD CR 247-60	AK	ADFG	45469	970520	56	0	145	0	W	614	3150	F	RESGILL	GULF OF ALASKA	OSHO MARU	
312625	COHO	96	BIRD CR 247-60	AK	ADFG	46094	980518	58	50	153	11	W	177	50	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	

Table 2. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG	BROOD		RELEASE	STATE/	AGENCY	NUMBER	DATE	LAT		LONG		TSFT	WT	SEX	GEAR	OCEANIC	RESEARCH		
CODE	SPECIES	YEAR	SITE	PROV				D	M	D	M							DIR	(mm)
312627	COHO	96	EKLUTNA TAILRACE 247	AK	ADFG	45512	980519	58	50	153	11	W	198	80	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312627	COHO	96	EKLUTNA TAILRACE 247	AK	ADFG	45512	980519	58	50	153	11	W	165	50	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312627	COHO	96	EKLUTNA TAILRACE 247	AK	ADFG	45512	980519	58	50	153	11	W	184	60	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312652	COHO	96	CAMPBELL CR 247-60	AK	ADFG	22296	980518	58	50	153	11	W	155	40	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312654	COHO	96	EKLUTNA TAILRACE 247	AK	ADFG	20590	980519	58	50	153	11	W	169	50	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312655	COHO	96	EKLUTNA TAILRACE 247	AK	ADFG	22998	980519	58	50	153	11	W	176	60	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312656	COHO	96	EKLUTNA TAILRACE 247	AK	ADFG	22782	980519	58	50	153	11	W	182	70	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
471733	COHO	96	TAMGAS CR	AK	MIC	17320	980518	56	9	134	49	W	259	200		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
471734	COHO	96	TAMGAS CR	AK	MIC	12604	980518	56	9	134	49	W	240	150		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
630340	COHO	96	SATSOP R-EF 22.0360	WA	WDFW	63981	980401	59	7	148	25	W	285	280	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
636156	COHO	96	LEWISR 27.0168	WA	WDFW	73472	980420	59	7	148	25	W	279	270	F	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
636213	COHO	96	SATSOP R-EF 22.0360	WA	WDFW	59914	980401	58	3	137	15	W	301			RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
053706	CHINOOK	96	ENTIATR	WA	FWS	17793	980401	48	12	125	13	W	180	61		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
053716	CHINOOK	96	DWORSHAK NAT. HATCH	ID	FWS	71202	980325	59	30	139	56	W	248	198		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
053855	CHINOOK	96	WIND R 29.0023	WA	FWS	94938	980420	58	50	153	11	W	269	250	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
053855	CHINOOK	96	WIND R 29.0023	WA	FWS	94938	980420	48	12	125	13	W	158	45		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
054955	CHINOOK	96	WARM SPRINGS R	OR	FWS	27363	980415	48	12	125	13	W	218	129		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
054958	CHINOOK	96	WARM SPRINGS R	OR	FWS	27106	980415	48	12	125	13	W	153	34		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
092225	CHINOOK	96	DESCHUTES R- 2/OR	OR	ODFW	89579	980415	48	12	125	13	W	171	60		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	

Table 2. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	RESEARCH VESSEL	
								D	M	D	M	DIR							
092227	CHINOOK	96	HOOD R W FK (HOOD R)	OR	ODFW	62886	980422	48	12	125	13	W	174	62		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
092319	CHINOOK	96	SANTIAM R & N FK-1	OR	ODFW	244804	980302	59	47	144	39	W	283	300		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
092320	CHINOOK	96	SANTIAM R & N FK-1	OR	ODFW	407781	980302	59	47	144	39	W	282	300		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
105126	CHINOOK	96	SALMON R @ HAMMER CK	ID	IDFG	51931	980329	59	32	144	45	W	240	187	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
180211	CHINOOK	94	R-CHILLIWACK RIVER	BC	CDFO	23969	950515	47	58	125	25	W	662	3700	F	RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
312603	CHINOOK	96	DECEPTION CR 247-41	AK	ADFG	47078	970611	56	30	156	30	W	328	380	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
312608	CHINOOK	96	NINILCHIK R 244-20	AK	ADFG	50292	970617	56	30	156	30	W	315	400		RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
500438	CHINOOK	96	AUKE BAY 111-50	AK	DIPC	9527	980528	59	30	145	4	W	393	840	M	RESTRAWL	GULF OF ALASKA	GREAT PACIFIC	
630118	CHINOOK	96	PORTAGE BAY/SHIP CNL	WA	UW	165011	970513	48	23	125	10	W	360	500		RESTRAWL	NE NORTH PACIFIC	GREAT PACIFIC	
636063	CHINOOK	95	KALAMAR 27.0002	WA	WDFW	82467	970401	57	52	151	55	W	650	4100	F	RESTRAWL	GULF OF ALASKA	HICKORY WIND	
054148	STEELHEAD	96	MAIN STEM CLEARWATER	ID	FWS	21758	970430	43	0	180	0	W	462	1600	M	RESGILL	CENTRAL NORTH PACIFIC	WAKATAKE MARU	
054150	STEELHEAD	96	S.FK. CLEARWATER R.	ID	FWS	20481	970424	45	0	165	0	E	564	1800	M	RESGILL	WESTERN NORTH PACIFIC	HOKKO MARU	
071163	STEELHEAD	95	SPRING CR	OR	ODFW	27311	960409	48	30	171	22	E	571	1920	M	RESGILL	WESTERN NORTH PACIFIC	HOKUSEI MARU	
105145	STEELHEAD	96	CLEAR CR.	ID	IDFG	31672	970428	43	0	180	0	W	570	1660	M	RESGILL	CENTRAL NORTH PACIFIC	OSHO MARU	
212938	STEELHEAD	95	QUINAULT L. NET PENS	WA	QDNR	46168	960501	46	0	180	0	W	640	2520	F	RESGILL	CENTRAL NORTH PACIFIC	WAKATAKE MARU	
213030	STEELHEAD	96	COOK CR 21.0429	WA	FWS	14789	970513	48	30	165	0	W	521	1300	F	RESGILL	GULF OF ALASKA	OSHO MARU	

Table 2. Continued.

RELEASE INFORMATION										RECOVERY INFORMATION									
TAG CODE	SPECIES	BROOD YEAR	RELEASE SITE	STATE/ PROV	AGENCY	NUMBER TAGGED	DATE	LAT		LONG			TSFT (mm)	WT (g)	SEX	GEAR	OCEANIC REGION	RESEARCH VESSEL	
								D	M	D	M	DIR							
215509	STEELHEAD	96	QUINAULT LAKE (21)	WA	QDNR	31130	970414	45	0	180	0	W	582	1680	M	RESGILL	CENTRAL NORTH PACIFIC	WAKATAKE MARU	
215509	STEELHEAD	96	QUINAULT LAKE (21)	WA	QDNR	31130	970414	47	0	180	0	W	592	2000	F	RESLL	CENTRAL NORTH PACIFIC	WAKATAKE MARU	
635204 #2	STEELHEAD	97	COWLITZ R	WA	WDFW		980418	50	0	145	0	W				RESGILL	GULF OF ALASKA	OSHO MARU	
635318 #2	STEELHEAD	95	COWLITZ R	WA	WDFW		960415	51	0	165	0	E	720	3950	M	RESGILL	WESTERN NORTH PACIFIC	HOKKO MARU	
635919 #2	STEELHEAD	97	COWLITZ R	WA	WDFW		980418	52	0	145	0	W	321	330	M	RESGILL	GULF OF ALASKA	OSHO MARU	

*2 indicates that the tag code was reused (release data provided by the Washington Department of Fish and Wildlife).

Table 3. Summary of coded-wire tagged salmon recoveries in commercial trawls in the U.S. 200-mile zone by oceanic region of recovery and release location (1 September 1998 - 31 August 1999 reporting period).

Species	Oceanic recovery region	Release Location (State or Province)						Total
		Alaska	British Columbia	Washington	Idaho	Oregon	California	
Coho	NE North Pacific	0	0	1	0	0	0	1
Chinook	Bering Sea	33	28	3	0	3	3	70
	Gulf of Alaska	44	90	21	0	27	0	182
	NE North Pacific	0	16	27	8	10	25	86
	Chinook total	77	134	51	8	40	28	338
Total		77	134	52	8	40	28	339

Table 4. Summary of coded-wire tagged salmonid recoveries in U.S. and Japanese high seas research vessel operations in the North Pacific Ocean by oceanic region of recovery and release location (1 September 1998 - 31 August 1999 reporting period).

Species	Oceanic recovery region	Release location (state or province)					Total
		Alaska	British Columbia	Washington	Idaho	Oregon	
Chinook	Gulf of Alaska	3	0	2	2	2	9
	NE North Pacific	0	1	3		4	8
	Chinook total	3	1	5	2	6	17
Coho	Gulf of Alaska	16	2	3	0	1	22
Sockeye	Gulf of Alaska	1	0	0	0	0	1
Steelhead	Central North Pacific	0	0	3	2	0	5
	Gulf of Alaska	0	0	3	0	0	3
	Western North Pacific			1	1	1	3
	Steelhead total	0	0	7	3	1	11
Total		20	3	15	5	8	51

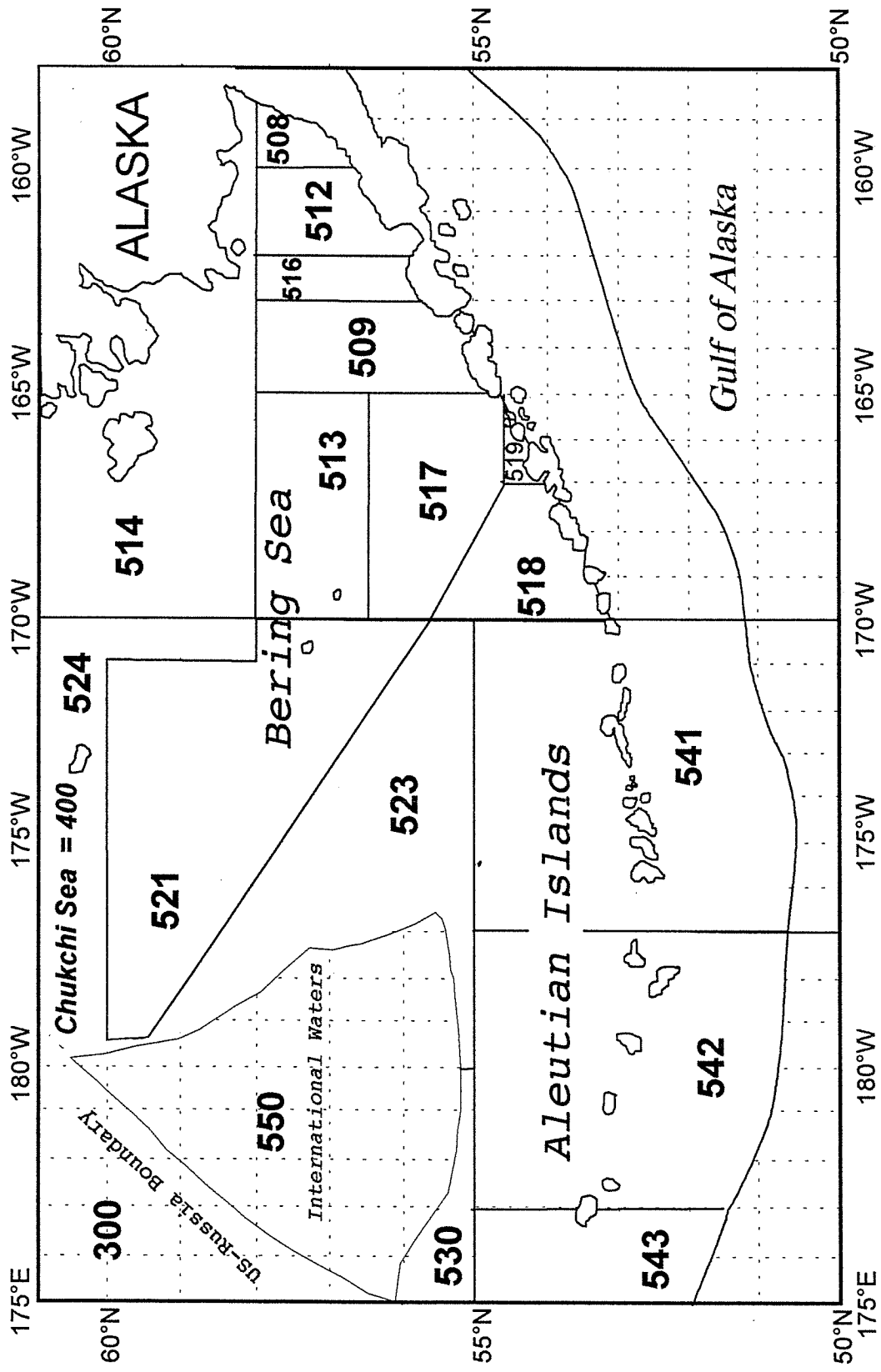


Figure 1. Locations of US National Marine Fisheries Service (NMFS) statistical areas in the eastern Bering Sea and Aleutians Islands portion of the US Exclusive Economic Zone (EEZ).

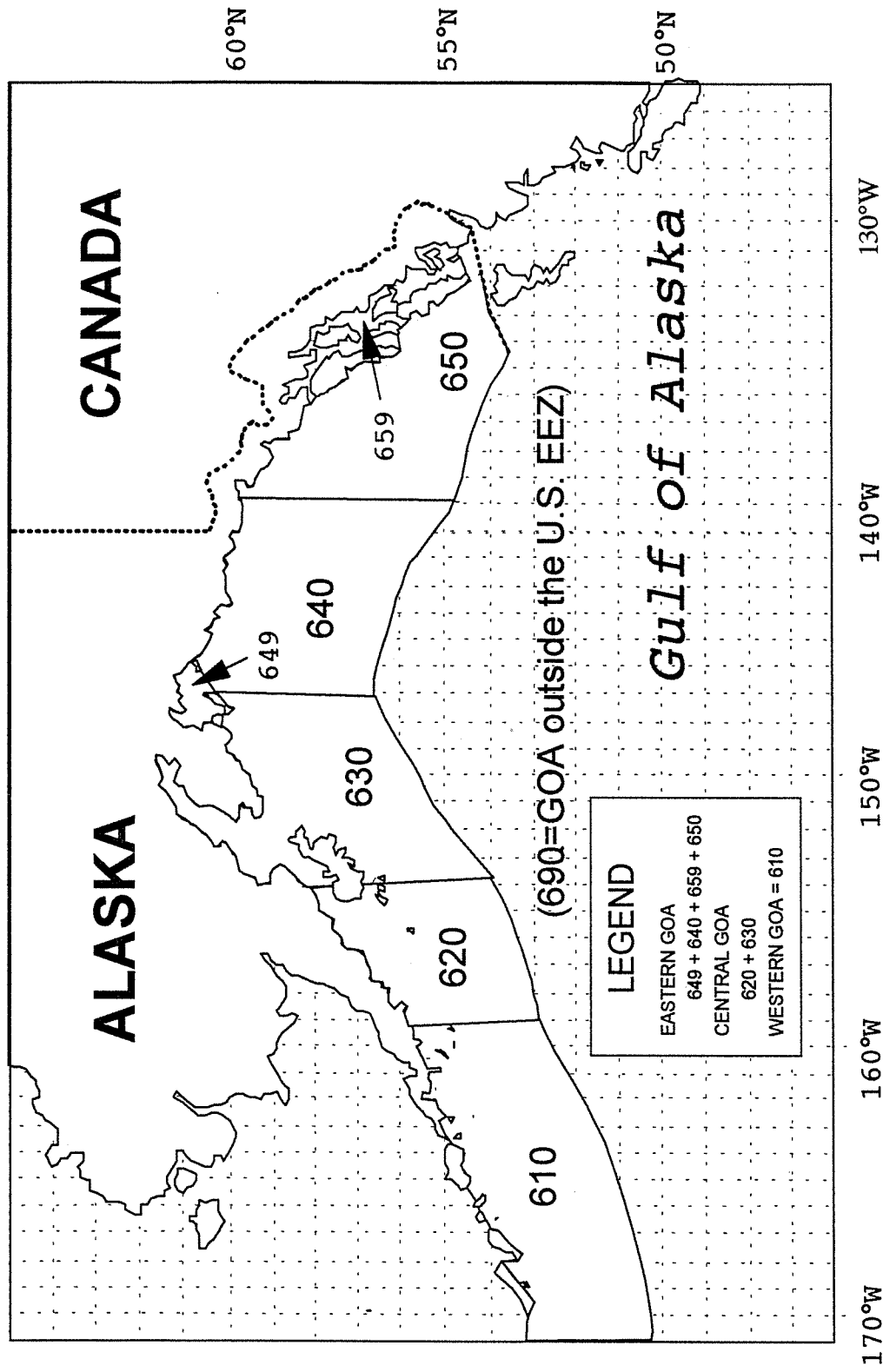


Figure 2. Locations of US National Marine Fisheries Service (NMFS) statistical areas in the Gulf of Alaska portion of the US Exclusive Economic Zone (EEZ).