

4K94-24

NORTH ALASKA PENINSULA COMMERCIAL SALMON
ANNUAL MANAGEMENT REPORT, 1993

By

Robert L. Murphy
Arnold R. Shaul
and
Robert S. Berceci

Regional Information Report¹ No. 4K94-24

Alaska Department of Fish and Game
Commercial Fisheries Management and Development Division
211 Mission Road
Kodiak, Alaska 99615

June 1994

¹The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished division reports. These reports frequently serve diverse ad hoc informational purposes or archive basic uninterpreted data. To accommodate timely reporting of recently collected information, reports in this series undergo only limited internal review and may contain preliminary data; this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited without prior approval of the author or the Division of Commercial Fisheries.

ACKNOWLEDGEMENTS

Listed below are the management and research staff that worked on the North Alaska Peninsula during 1993. The authors wish to give thanks to all those that contributed countless hours to the success of the projects. Thanks is also extended to Lucinda Neel for her Publication expertise, Sharon Theis for word processing assistance, and Pete Probasco and Bruce Barrett for supervisory direction. Additional Alaska Peninsula staff that worked on the South Peninsula are also thanked for their contribution to the overall success of the entire Alaska Peninsula Management Area projects, and at times assisting with North Peninsula projects when needed. They are listed in the South Peninsula Annual Management Report.

Employee	Title / PCN	Duties And Location
Arnie Shaul	FB III 11-1033	Alaska Peninsula and Aleutian Islands Areas Salmon Management Biologist, Cold Bay
Bob Berceli	FB II 11-1833	Alaska Peninsula Area Assistant Salmon Management Biologist, Cold Bay
Bob Murphy	FB II 11-1407	Alaska Peninsula Area Salmon Research and Management Biologist, Port Moller
Hal Terry	Pilot I 11-1415	Pilot, Cold Bay
Randy Weber	Pilot I 11-1430	Pilot, Chignik
David Henley	Pilot I 11-S430	Pilot, Chignik
Steve Krueger	FB I 11-1911	Nelson River Weir
Dan Connolly	FT III 11-1416	Nelson River Weir
Tracy McKinion	FB I 11-1433	Port Moller Catch Sampling
Meesha Mangiaracina	FT II 11-1953	Port Moller Catch Sampling
Judy Brandt	FB I 11-1434	Bear Lake Weir
Laura Ashford	FT II 11-1959	Bear Lake Weir
Andrew deValpine	FT III 11-1962	Ilnik River Weir
Dan Rogers	FT II 11-1776	Ilnik River Weir
Tim Clark	FT III 11-1826	King Cove Catch Sampling
Steve Reed	FT II 11-1467	King Cove Catch Sampling

TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLES	i
LIST OF FIGURES	iii
INTRODUCTION	1
HARVEST BY SPECIES	2
Chinook Salmon	2
Sockeye Salmon	2
Pink Salmon	3
Chum Salmon	3
Coho Salmon	3
ESCAPEMENT BY SPECIES	4
Chinook Salmon	4
Sockeye Salmon	4
Pink Salmon	5
Chum Salmon	5
Coho Salmon	5
EMERGENCY ORDERS	5
LITERATURE CITED	6
TABLES	7
FIGURES	104

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1. North Peninsula salmon runs by species, 1962-1993	7
2. North Peninsula salmon harvest by species, week, and area, all gear, 1993	10
3. Northern District chinook salmon runs, 1962-1993	14
4. North Peninsula salmon harvest, in number of fish, by district, area, and section, 1993	16
5. Uruia Bay salmon harvest by species and day, 1993	18
6. Northwestern District sockeye salmon runs, 1962-1993	19
7. Nelson Lagoon salmon harvest by species and day, 1993	22
8. Bear River salmon harvest by species and day, 1993	24
9. Northern District sockeye salmon runs, 1962-1993	26
10. Three Hills Section salmon harvest by species and day, 1993	28
11. Ilnik Section salmon harvest by species and day, 1993	29
12. North Peninsula salmon harvest by species and day, 1993	31
13. Northwestern District pink salmon runs, 1962-1993	33
14. Northern District chum salmon runs, 1962-1993	36
15. Northwestern District chum salmon runs, 1962-1993	39
16. North Peninsula coho salmon catches by district and section, 1984-1993	42
17. North Peninsula peak and estimated total salmon escapement by species, district, and stream, 1993	43
18. Chinook, pink, and chum salmon daily and cumulative escapement counts through the Nelson River weir, 1993	51
19. Chinook, pink, and chum salmon daily and cumulative escapement counts through the Bear River weir, 1993	52

LIST OF TABLES (Cont.)

<u>Table</u>	<u>Page</u>
20. Sockeye salmon daily and cumulative escapement counts through the Nelson River weir, 1993	54
21. Sockeye salmon daily and cumulative escapement counts through the Bear River weir, 1993	56
22. Sockeye salmon daily and cumulative escapement counts through the Ilnik River weir, 1993	59
23. Salmon escapement survey counts in the North Peninsula, 1993	61
24. Emergency orders for the North Peninsula, 1993	71

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1. North and South Alaska Peninsula with North Peninsula districts depicted	104
2. Nelson Lagoon to Strogonof Point reach, with district sections, commercial salmon season opening dates, and major sockeye salmon systems depicted	105
3. Nelson Lagoon commercial chinook, sockeye, and coho salmon harvest, 1984-93	106
4. Nelson Lagoon commercial sockeye salmon harvest by week, 1993	107
5. Port Moller to Strogonof Point commercial sockeye salmon harvest, 1984-93	108
6. Port Moller to Strogonof Point commercial sockeye salmon harvest by week, 1993	109
7. Approximate run timing of selected major North Peninsula sockeye salmon stocks based on escapement schedules	110

INTRODUCTION

The Alaska Peninsula Salmon Management Area includes the South Peninsula from Kupreanof Point west to Scotch Cap, and the North Peninsula from Cape Sarichef east to Cape Mensehikof (Figure 1). This report describes those fisheries that are located on the North Peninsula, which consists of two districts; the Northwestern District extends from Cape Sarichef to Moffet Point, and the Northern District from Moffet Point to Cape Mensehikof. The Nelson Lagoon to Strogonof Point reach is the primary salmon harvest area on the North Peninsula, and includes most of the Northern District. Smaller directed fisheries occur throughout the North Peninsulas not located within this reach.

Legal gear types in the Northwestern District are purse seine, hand purse seine, drift and set gillnet (ADF&G 1992). By regulation Northern District commercial salmon fishing is permitted with purse seine, drift and set gillnet gear. However, within area gear restrictions exist. The Nelson Lagoon Section is open to drift and set gillnet gear only; the Herendeen-Moller Bay Section to seine, drift and set gillnet gear; the Bear River Section to seine and drift gillnet gear; the Three Hills Section to drift gillnet gear only, and the Ilnik Section to drift and set gillnet gear.

The commercial salmon season by regulation opens in most of the Northwestern District on June 1 and in most of the Northern District on May 1. The Three Hills Section opens on June 25, the Ilnik Section from Three Hills east to Unangashak Bluffs on July 5, and east of Unangashak Bluffs to Strogonof Point on July 15 (Figure 2).

While the earliest opening times are established by regulations, actual fishing time on North Peninsula stocks is based on inseason evaluation of local stock abundance and defined escapement objectives. Sockeye salmon are the primary species of harvest in these waters. During June 1 through September 15, within the Nelson Lagoon to Strogonof Point area, management emphasis is on four sockeye systems: Nelson River, Bear River, Sandy River, and Ilnik River (Figure 2). Nelson and Bear Rivers are the dominant systems. Alaska Department of Fish and Game weir camps located at Nelson River, Bear River, and Ilnik River provide daily escapement enumerations that are used to manage commercial fisheries.

Local origin sockeye salmon stocks are abundant from Nelson Lagoon to Strogonof Point in June, July, August, and September (Figure 2). The Nelson River sockeye run begins in mid June, peaks in early July, and is over by mid August. Bear River supports two distinct runs; an early run that begins in mid June, peaks in early July and ends in late July; and a late run which starts in mid July, peaks in early August, and ends in September. The Ilnik River run timing is early and closely parallels the Bear River early run timing.

HARVEST BY SPECIES

Chinook Salmon

The 1993 chinook salmon harvest of 23,585 fish was the highest harvest since 1983 and was well above the previous 10 year harvest average of 16,400 (Table 1). The Port Heiden chinook catch was 10,586, the highest catch on the North Peninsula. The highest weekly harvest on the North Peninsula occurred June 14-20, when 5,180 chinook were harvested in the Inner Port Heiden Section (Table 2). The Port Moller to Cape Seniavin season harvest was 5,545. The Cinder River chinook harvest totaled 2,260, which was the second highest harvest on record for that location. The Nelson Lagoon Section harvest was 4,833, the highest harvest since 1988 (Table 3).

Sockeye Salmon

The North Peninsula sockeye salmon harvest of 3,866,593 was a record harvest, exceeding the previous record harvest of 3,575,511 in 1992 (Table 1). Most of the 1993 catch occurred in the Port Moller to Strogonof Point reach (88%; Table 4).

The fishing season in the Urilia Bay Section was delayed until June 28, in an effort to rebuild the early segment of the run into Christianson Lagoon (Table 5). The 1989-1992 Urilia Bay sockeye runs seem to reflect overfishing during the early segment for the parent years. In 1993, the sockeye salmon catch in Urilia Bay was 24,277, with almost all of the harvest occurring in the June 28-July 18 period (Table 3).

In Urilia Bay seine gear was not as efficient in 1993 as in past years; the outlet from Christianson Lagoon into Urilia Bay shifted to near the flats from Divide Creek. In past years the mouth of the channel was farther west. In 1993, seiners only harvested 7,365 sockeye out of a total sockeye catch of 24,277. The total sockeye harvest of 68,400 in Urilia Bay was the lowest since 1983, and below the 1983-1992 average of 85,558 (Table 6).

The sockeye harvest in the Izembek-Moffet Bay Section was 30,109, well above average for this section (Table 6).

The Nelson Lagoon sockeye harvest of 452,858 was the second largest harvest since at least 1960 (Table 4; Figure 3). The highest weekly harvest in Nelson Lagoon occurred during July 5-11 with a catch of about 162,000 (Figure 4). Approximately 40 permit holders participated in the 1993 fishery with the highest daily harvest of 46,087 sockeye on July 5 (Table 7).

The sockeye harvest in the Port Moller to Cape Seniavin reach (includes Port Moller Bight and the Bear River Section) of 2,051,849, was more than double the 1983-92 average harvest (Figure 5). The highest weekly harvest occurred during June 28-July 4 with a catch of 428,579 (Table 3). Catches of about 100,000 sockeye salmon or more per week were continuous from mid-June

through early September (Figure 6). The highest daily harvest in the Bear River Section was on July 4 with a catch of 108,319 (Table 8).

In the Cape Seniavin to Strogonof Point reach, which includes the Three Hills and Ilnik Sections, 1,280,067 sockeye salmon were harvested, which is above the 1983-92 harvest average of 933,000 (Figure 5; Table 9). Approximately 90% of the catch occurred during the three week period June 28 to July 18; the highest weekly harvest was July 5-11 with 681,826 (Figure 6). Daily peak catches in the Three Hills and Ilnik Sections occurred on July 1 (71,855; Table 10) and July 5 (174,565; Table 11), respectively.

The Port Moller to Strogonof Point, which includes Port Moller Bight, Bear River, Three Hills, and Ilnik Sections, combined catch was 3,331,916 sockeye salmon (Figure 5). The highest weekly harvest of 872,178 occurred during the period July 5-11, with the majority of the harvest taken in the Cape Seniavin to Strogonof Point reach (681,826; Figure 6). The 1993 harvest was about double the 1983-92 harvest average (1,753,061; Table 9). During 1983-92, the sockeye harvest has been about evenly split between the two areas of Port Moller to Cape Seniavin (47%) and Cape Seniavin to Strogonof Point (53%). In 1993, however, 62% of the harvest within this reach occurred in the Port Moller to Cape Seniavin reach while 38% occurred in the Cape Seniavin to Strogonof Point area (Figure 5). The entire North Peninsula sockeye salmon peak daily harvest occurred on July 5 (291,720; Table 12).

Pink Salmon

The 1993 North Peninsula pink salmon harvest was 5,328 fish (Table 1). This was the highest odd year cycle catch since 1981 and was above the 1983-1991 odd year harvest average of 3,700. Most of the harvest occurred in Herendeen Bay (3,823) and Port Moller to Cape Seniavin (1,276; Table 2). Recently, the North Peninsula has had strong pink salmon runs during even-years in the Northern District, while the Northwestern District historically tends to provide more pink salmon production (Table 13).

Chum Salmon

The 1993 chum salmon harvest was 134,960 fish, well below the 1983-92 harvest average of 366,600. Most of the chum harvest occurred in Herendeen Bay (44,551; Table 14), Port Moller to Cape Seniavin (33,549; Table 14), and Izembek-Moffet Bay (24,900; Table 15). In the Northwestern District, 48,400 chum salmon were harvested (Table 15).

Coho Salmon

The 1993 North Peninsula coho salmon harvest of 64,376 was the lowest harvest since 1978 and was less than half of the previous 10 year average harvest of 185,400 (Table 1 and 16). Directed

coho fisheries occur in Uralia Bay, Swansons Lagoon, Izembek-Moffet Bay, Nelson Lagoon, Ilnik Lagoon, Inner Port Heiden, and Cinder River (Table 2). The latter four areas usually account for the bulk of the harvest. Coho salmon first appeared (> 100 fish per day) in North Peninsula combined fisheries on August 9 (1,331; Table 12), with most of the harvest occurring in the Cinder River Section.

ESCAPEMENT BY SPECIES

Chinook Salmon

The indexed total chinook salmon escapement was estimated to be 13,700, which was the highest escapement since 1984 and slightly above the 1983-92 average of 11,600. Escapement surveys were not conducted at Port Heiden and Cinder River due to weather. Fishery performance was used to depict the escapement into the systems that were not surveyed. The indexed total escapement into Nelson River was 6,000, well above the goal of 4,000 (Tables 17 and 18). The Bear River and Port Moller area indexed total escapement was 1,800 (Tables 17 and 19).

Sockeye Salmon

The sockeye salmon escapement goals for all North Peninsula systems were met or exceeded. The estimated total escapement which included weir counts was 1,004,000 sockeye salmon (Tables 17). The 1983-92 average escapement was 808,000. Escapement through the weirs at Nelson River, Bear River, and Ilnik River were strong, and all goals were met or exceeded (Tables 20-22). The Nelson River sockeye escapement goal was 100,000-150,000, Bear River 200,000-250,000 (both early and late run), and Ilnik River 40,000-60,000. The peak daily escapements for Nelson River and Bear River were on July 5 (16,976; Table 20 and 22,757; Table 21). The peak Ilnik River daily escapement was on June 23 (4,607; Table 22). Ilnik River run appeared several days earlier than anticipated (Figure 7; Table 22).

It appeared that an unusually strong Caribou River run, a tributary of Nelson River, made a substantial contribution to the harvest in Nelson Lagoon during mid and late June. A total of 50,000 sockeye salmon were observed spawning during July 14-16 in the fork below Trader Mountain (1,000) and the 10 miles of the main river below the tributary (49,000). The main stem of the Caribou is usually too muddy to survey but this was not the case in mid July 1993. The Sapsuk River sockeye escapement was 207,183 which was well above the 100,000 to 150,000 goal.

Pink Salmon

Several river maggots were seen in local North Peninsula systems, which meant management did not exterminate this species from the NP-yet. The minimum indexed total escapement was 72,800 (Table 17).

Chum Salmon

The indexed total chum salmon escapement was 402,000 (Table 17). The North Peninsula chum goal of 349,000 to 698,000 was met. Escapements were spotty, with excellent escapements in some areas and poor in others. In general, Northwestern District systems were fair with the bulk of the escapement occurring in Izembek-Moffet Bay (172,900; Table 17). In the Northern District, the majority of the escapement occurred in the Herendeen-Moller Bay Section where Grass Valley and Lawrence Valley Creeks had excellent escapements, while other systems had fair or poor escapements (Table 17). With the exception of Petersons Lagoon at Uruia Bay, all strong chum salmon runs appeared to be late.

Coho Salmon

Due to inadequate funding and fall weather conditions, very few surveys were flown in 1993. Even with only limited surveys, Port Heiden (Meshik River), Ilnik River, and Cinder River had good escapements (Table 17). The Nelson River peak coho escapement was 14,600, short of the goal of 20,000-30,000.

Aerial survey information by species and North Peninsula system is provided in Table 23.

EMERGENCY ORDERS

The first Emergency Order (EO) for the North Peninsula was effective on 13 June and the last on 17 September. There were a total of 65 EO's concerning North Peninsula fisheries (Table 24).

LITERATURE CITED

ADF&G (Alaska Department of Fish and Game). 1992. 1992-94 Bristol Bay and Westward Alaska commercial fishing regulations salmon and miscellaneous finfish, 1992 edition. Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau.

Table 1. North Peninsula salmon runs^a by species, 1962-1993.

Year		Number of Fish					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1962	Catch	5,400	249,700	35,200	31,200	34,900	356,400
	Escapement	4,400	351,200		4,000	150,900	
	Total	9,800	600,900		35,200	185,800	
1963	Catch	3,600	225,200	40,500	6,900	49,900	326,100
	Escapement	6,200	351,000		4,400	203,200	
	Total	9,800	576,200		11,300	253,100	
1964	Catch	3,600	250,800	36,600	6,800	139,000	436,800
	Escapement	25,900	419,900		(15,100)	156,100	
	Total	29,500	670,700		(21,900)	295,100	
1965	Catch	6,100	199,500	34,500	2,100	69,700	311,900
	Escapement	22,100	238,400		900	49,300	
	Total	28,200	437,900		3,000	119,000	
1966	Catch	5,600	245,300	37,300	16,000	82,800	387,000
	Escapement	8,200	283,300		2,000	149,000	
	Total	13,800	528,600		18,000	231,800	
1967	Catch	5,500	224,700	46,800	700	41,300	319,000
	Escapement	12,200	299,700		700	122,600	
	Total	17,700	524,400		1,400	163,900	
1968	Catch	4,500	237,100	64,900	200	73,500	380,200
	Escapement	15,800	251,300		26,500	250,800	
	Total	20,300	488,400		26,700	324,300	
1969	Catch	4,800	321,300	49,100	100	28,100	403,400
	Escapement	19,500	575,000		4,400	146,800	
	Total	24,300	896,300		4,500	174,900	
1970	Catch	3,800	187,800	26,300	7,900	48,000	273,800
	Escapement	8,300	451,500		11,100	169,800	
	Total	12,100	639,300		19,000	217,800	
1971	Catch	2,200	353,800	8,200	300	64,200	428,700
	Escapement	5,200	435,100		8,600	109,400	
	Total	7,400	788,900		8,900	173,600	
1972	Catch	1,800	179,300	9,700	100	84,700	275,600
	Escapement	5,000	190,200		1,300	124,000	
	Total	6,800	369,500		1,400	208,700	
1973	Catch	2,600	165,400	19,800	100	152,800	340,700
	Escapement	4,300	180,200		(200)	122,400	
	Total	6,900	345,600		(300)	278,100	
1974	Catch	2,700	246,200	16,800	10,600	34,400	310,700
	Escapement	3,000	332,800		(23,000)	105,100	
	Total	5,700	579,000		(33,600)	139,500	
1975	Catch	2,100	233,300	28,400	300	8,800	272,900
	Escapement	4,600	516,800		600	109,200	
	Total	6,700	750,100		900	118,000	
1976	Catch	5,000	641,100	26,100	700	73,600	746,500
	Escapement	6,000	532,600		37,300	293,400	
	Total	11,000	1,173,700		38,000	367,000	

-Continued-

Table 1. (page 2 of 3)

Year		Number of Fish					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1977	Catch	5,500	472,000	34,100	900	129,100	641,600
	Escapement	7,100	541,100		8,500	681,200	
	Total	12,600	1,013,100		9,400	810,300	
1978	Catch	14,300	896,600	63,300	485,200	163,800	1,623,200
	Escapement	13,700	1,213,500		96,800	310,500	
	Total	28,000	2,110,100		582,000	474,300	
1979	Catch	17,100	1,979,200	112,800	5,000	65,700	2,179,800
	Escapement	15,800	1,574,000		9,300	305,300	
	Total	32,900	3,553,200		14,300	371,000	
1980	Catch	16,800	1,397,100	127,900	301,700	700,200	2,543,700
	Escapement	11,000	1,387,600		103,600	769,500	
	Total	27,800	2,784,700		405,300	1,469,700	
1981	Catch	18,900	1,844,300	155,400	11,200	706,800	2,736,600
	Escapement	12,400	1,347,900		6,100	535,200	
	Total	31,300	3,192,200		17,300	1,242,000	
1982	Catch	30,100	1,435,300	238,000	12,300	331,100	2,046,800
	Escapement	20,000	718,400		51,700	457,600	
	Total	50,100	2,153,700		64,000	788,700	
1983	Catch	29,500	2,093,400	75,100	3,400	348,700	2,550,100
	Escapement	25,700	580,300		4,000	392,600	
	Total	55,200	2,673,700		7,400	741,300	
1984	Catch	23,000	1,734,900	198,600	27,400	796,700	2,780,600
	Escapement	17,700	826,000		56,600	870,200	
	Total	40,700	2,560,900		84,000	1,666,900	
1985	Catch	23,500	2,596,100	176,100	3,100	666,600	3,465,400
	Escapement	12,900	898,100		1,400	344,200	
	Total	36,400	3,494,200		4,500	1,010,800	
1986	Catch	11,700	2,463,700	164,100	22,600	271,200	2,933,300
	Escapement	8,700	580,300		13,300	243,600	
	Total	20,400	3,044,000		35,900	514,800	
1987	Catch	14,200	1,209,400	171,800	3,500	368,700	1,767,600
	Escapement	10,700	556,000		100	510,900	
	Total	24,900	1,765,400		3,600	879,600	
1988	Catch	16,800	1,528,100	234,000	65,200	393,100	2,237,200
	Escapement	11,700	614,900	(200-300) ^b	43,500	500,300	
	Total	28,500	2,143,000	(434-534) ^b	108,700	893,400	
1989	Catch	10,900	1,718,700	227,600	4,100	157,200	2,118,500
	Escapement	5,600	814,400	(150-250) ^b	1,900	212,300	
	Total	16,500	2,533,100	377.6-477.6 ^b	6,000	369,500	
1990	Catch	12,300	2,416,000	193,000	517,700	126,100	3,265,100
	Escapement	7,100	1,032,200	(140-175) ^b	132,200	226,400	
	Total	19,400	3,448,200	333.0-368.0 ^b	649,900	352,500	
1991	Catch	9,400	2,391,400	218,300	4,200	191,300	2,814,600
	Escapement	9,600	1,317,300		6,300	303,300	
	Total	19,000	3,708,700		10,500	494,600	

-Continued-

Table 1. (page 3 of 3)

Year		Number of Fish					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1992	Catch	13,100	3,575,500	206,800	194,400	341,600	4,331,400
	Escapement	6,600	861,300		207,600	351,700	
	Total	19,700	4,436,800		402,000	693,300	
1993	Catch	23,600	3,866,600	64,400	5,300	135,000	4,094,900
	Escapement	13,700	1,003,800		72,800	402,400	
	Total	37,300	4,870,400		78,100	537,400	

^a Escapements are indexed totals. Figure in parenthesis are very rough extrapolated estimates.

^b Numbers of fish in thousands.

Table 2. North Peninsula salmon harvest by species, week^a, and area, all gear, 1993.

Week ^b	Number of Fish					
	Chinook	Sockeye	Coho	Pink	Chum	Total
Urilia Bay Section						
J June 28 - July 4	2	12,209	0	0	2,124	14,335
K July 5 - 11	1	6,903	0	4	122	7,030
L July 12 - 18	5	5,075	0	4	9,039	14,123
M July 19 - 25	0	90	4	0	40	134
S Sept 1 - 5	0	0	1,050	0	0	1,050
U September 13 - 19	0	0	2,183	0	0	2,183
Total	8	24,277	3,237	8	11,325	38,855
Swanson Lagoon						
I June 21 - 27	0	170	0	0	465	635
J June 28 - July 4	0	292	0	0	345	637
K July 5 - 11	0	2,297	2	11	5,193	7,503
L July 12 - 18	0	864	0	0	1,289	2,153
M July 19 - 25	0	1,135	0	0	732	1,867
N July 26 - August 1	1	125	0	0	13	139
O August 2 - 8	3	5,667	0	9	2,781	8,460
P August 9 - 10	1	3,095	0	15	1,407	4,518
S September 1 - 5	0	225	285	0	9	519
Total	5	13,870	287	35	12,234	26,431
Bechevin Bay Section						
K July 5 - 11	0	25	0	8	1,299	1,332
L July 12 - 18	0	74	4	0	0	78
U September 13 - 19	0	28	572	0	0	600
Total	0	127	576	8	1,299	2,010
Izembek - Moffet Bay Section						
I June 21 - 27	0	300	0	0	70	370
K July 5 - 11	2	9,775	0	0	8,804	18,581
L July 12 - 18	0	6,262	1	0	8,557	14,820
M July 19 - 25	0	6,238	0	0	4,050	10,288
N July 26 - August 1	0	2,809	0	5	330	3,144
P August 9 - 10	0	4,725	0	0	1,725	6,450
Total	2	30,109	1	5	23,536	53,653
Nelson Lagoon						
F May 31 - June 6	42	88	0	0	0	130
G June 7 - 13	1,171	12,351	0	0	1	13,523
H June 14 - 20	1,756	41,051	0	0	0	42,807
I June 21 - 27	1,423	88,098	0	0	2	89,523
J June 28 - July 4	296	86,812	0	0	0	87,108

-Continued-

Table 2. (page 2 of 4)

Week ^b	Number of Fish					
	Chinook	Sockeye	Coho	Pink	Chum	Total
K July 5 - 11	114	162,092	0	3	79	162,288
L July 12 - 18	23	29,323	0	4	457	29,807
M July 19 - 25	2	13,452	0	4	880	14,338
N July 26 - August 1	3	7,267	6	7	697	7,980
O August 2 - 8	1	7,408	102	4	1,718	9,233
P August 9 - 15	2	3,679	688	11	632	5,012
Q August 16 - 22	0	738	1,132	1	57	1,928
R August 23 - 29	0	347	9,819	2	7	10,175
S August 30 - Sept 5	0	131	9,287	1	3	9,422
T September 6 - 12	0	21	3,611	0	0	3,632
Total	4,833	452,858	24,645	37	4,533	486,906
Herendeen Bay						
K July 5 - 11	0	8	0	0	2,100	2,108
O August 2 - 8	0	2	2	3,800	40,738	44,542
P August 9 - 15	0	0	0	23	1,667	1,690
Q August 16 - 22	0	0	0	0	46	46
Total	0	10	2	3,823	44,551	48,386
Port Moller to Cape Seniavin						
F May 31 - June 6	727	493	0	0	7	1,227
G June 7 - 13	2,617	10,683	0	0	144	13,444
H June 14 - 20	1,146	92,019	8	0	903	94,076
I June 21 - 27	581	304,058	0	0	2,399	307,038
J June 28 - July 4	200	428,579	0	1	4,615	433,395
K July 5 - 11	124	190,352	0	0	4,304	194,780
L July 12 - 18	78	86,677	2	18	3,432	90,207
M July 19 - 25	24	95,846	1	33	1,791	97,695
N July 26 - August 1	20	125,044	20	331	8,194	133,609
O August 2 - 8	4	91,463	55	324	3,219	95,065
P August 9 - 15	11	185,838	1,076	272	2,835	190,032
Q August 16 - 22	9	206,373	1,256	138	1,254	209,030
R August 23 - 29	2	113,043	3,445	116	349	116,955
S August 30 - Sept 5	1	100,461	3,405	37	90	103,994
T September 6 - 12	1	20,920	936	6	13	21,876
Total	5,545	2,051,849	10,204	1,276	33,549	2,102,423
Port Moller to Strogonof Point						
F May 31 - June 6	727	493	0	0	7	1,227
G June 7 - 13	2,617	10,683	0	0	144	13,444
H June 14 - 20	1,146	97,449	8	0	903	99,506
I June 21 - 27	581	313,133	0	0	2,399	316,113
J June 28 - July 4	302	720,828	1	8	4,833	725,972
K July 5 - 11	251	872,178	0	7	4,869	877,305
L July 12 - 18	166	293,190	10	66	4,314	297,746

-Continued-

Table 2. (page 3 of 4)

Week ^b	Number of Fish					
	Chinook	Sockeye	Coho	Pink	Chum	Total
M July 19 - 25	46	125,392	15	33	1,915	127,401
N July 26 - August 1	23	157,475	55	377	8,383	166,313
O August 2 - 8	4	94,827	57	324	3,244	98,456
P August 9 - 15	12	198,071	1,775	285	3,226	203,369
Q August 16 - 22	10	206,787	1,338	146	1,259	209,540
R August 23 - 29	3	120,029	6,065	123	350	126,570
S August 30 - Sept. 5	1	100,461	6,109	37	90	106,698
T September 6 - 12	1	20,920	3,565	6	13	24,505
Total	5,890	3,331,916	18,998	1,412	35,949	3,394,165
Cape Seniavin to Strogonof Pt.						
H June 14 - 20	0	5,430	0	0	0	5,430
I June 21 - 27	0	9,075	0	0	0	9,075
J June 28 - July 4	102	292,249	1	7	218	292,577
K July 5 - 11	127	681,826	0	7	565	682,525
L July 12 - 18	88	206,513	8	48	882	207,539
M July 19 - 25	22	29,546	14	0	124	29,706
N July 26 - August 1	3	32,431	35	46	189	32,704
O August 2 - 8	0	3,364	2	0	25	3,391
P August 9 - 15	1	12,233	699	13	391	13,337
Q August 16 - 22	1	414	82	8	5	510
R August 23 - 29	1	6,986	2,620	7	1	9,615
S August 30 - Sept. 5	0	0	2,704	0	0	2,704
T September 6 - 12	0	0	2,629	0	0	2,629
Total	345	1,280,067	8,794	136	2,400	1,291,742
Inner Port Heiden Section						
F May 31 - June 6	1,635	0	0	0	0	1,635
G June 7 - 13	3,770	5	0	0	0	3,775
H June 14 - 20	5,180	403	0	0	8	5,591
I June 21 - 27						0
J June 28 - July 4	1	110	0	0	50	161
S August 30 - Sep 5	0	0	2,850	0	0	2,850
T September 6 - 12	0	0	491	0	0	491
Total	10,586	518	3,341	0	58	14,503
Cinder River Section						
F May 31 - June 6	64	1	0	0	0	65
G June 7 - 13	821	79	0	0	0	900
H June 14 - 20	657	1,909	0	0	0	2,566
I June 21 - 27	707	5,324	0	0	41	6,072
O August 2 - 8	4	755	62	0	80	901
P August 9 - 15	4	556	2,393	0	35	2,988

-Continued-

Table 2. (page 4 of 4)

Week ^b	Number of Fish					
	Chinook	Sockeye	Coho	Pink	Chum	Total
Cinder River Section (Cont.)						
Q August 16 - 22	1	223	3,801	0	6	4,031
R August 23 - 26	2	56	7,033	0	0	7,091
Total	2,260	8,903	13,289	0	162	24,614
Entire North Peninsula^c						
F May 31 - June 6	2,000	1,000	0	0	0	3,000
G June 7 - 13	8,000	23,000	0	0	0	31,000
H June 14 - 20	9,000	141,000	0	0	1,000	151,000
I June 21 - 27	3,000	407,000	0	0	3,000	413,000
J June 28 - July 4	1,000	820,000	0	0	7,000	828,000
K July 5 - 11	0	1,053,000	0	0	22,000	1,075,000
L July 12 - 18	0	335,000	0	0	24,000	359,000
M July 19 - 25	0	146,000	0	0	8,000	154,000
N July 26 - August 1	0	168,000	0	0	10,000	178,000
O August 2 - 8	0	111,000	0	4,000	49,000	164,000
P August 9 - 15	0	211,000	5,000	0	9,000	225,000
Q August 16 - 22	0	208,000	6,000	0	1,000	215,000
R August 23 - 29	0	120,000	23,000	0	0	143,000
S August 30 - Sept 5	0	101,000	20,000	0	0	121,000
T September 6 - 12	0	21,000	8,000	0	0	29,000
U September 13 - 19	0	0	3,000	0	0	3,000
Total	23,000	3,866,000	65,000	4,000	134,000	4,092,000

^a Permanent salmon weeks are the 1987 statistical weeks and will be used every year beginning in 1990. Previously, differences in statistical weeks between years made much of the data uncomparable.

^b The weeks listed here do not necessarily include the entire week.

^c Catches for the entire North Peninsula are rounded to the nearest thousand by week, consequently the totals may be slightly in error.

Table 3. Northern District chinook salmon runs^a, 1962-1993.

Year	Cinder River	Port Heiden	Three Hills & Ilnik	Bear River	Herendeen-Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals
1962								
Catch	0	400	0	500	700	3,700	0	5,300
Escapement	0	(1,100)	0	500	0	2,700	(100)	4,400
Total	0	(1,500)	0	1,000	700	6,400	(100)	9,700
1963								
Catch	0	0	0	600	200	2,500	0	3,300
Escapement	0	(100)	0	200	0	4,000	(1,900)	6,200
Total	0	(100)	0	800	200	6,500	(1,900)	9,500
1964								
Catch	0	0	100	300	0	3,300	0	3,700
Escapement	5,800	4,200	500	3,000	0	8,400	4,000	25,900
Total	5,800	4,200	600	3,300	0	11,700	4,000	29,600
1965								
Catch	0	1,900	300	100	0	4,000	0	6,300
Escapement	700	1,000	0	5,400	0	11,900	3,000	22,000
Total	700	2,900	300	5,500	0	15,900	3,000	28,300
1966								
Catch	0	700	0	100	0	2,400	0	3,200
Escapement	0	(1,300)	0	(300)	0	4,700	1,900	8,200
Total	0	(2,000)	0	(400)	0	7,100	1,900	11,400
1967								
Catch	0	1,400	0	100	400	3,600	0	5,500
Escapement	(800)	500	300	3,000	0	5,100	1,300	11,000
Total	(800)	1,900	300	3,100	400	8,700	1,300	16,500
1968								
Catch	0	1,000	100	300	1,300	2,800	0	5,500
Escapement	300	(1,100)	0	2,600	0	7,300	2,700	14,000
Total	300	(2,100)	100	2,900	1,300	10,100	2,700	19,500
1969								
Catch	0	1,400	0	500	500	2,500	0	4,900
Escapement	800	(1,100)	0	1,000	0	8,100	1,600	12,600
Total	800	(2,500)	0	1,500	500	10,600	1,600	17,500
1970								
Catch	0	0	0	800	400	2,600	0	3,800
Escapement	200	300	300	1,000	0	2,900	2,000	6,700
Total	200	300	300	1,800	400	5,500	2,000	10,500
1971								
Catch	0	0	100	300	400	1,400	0	2,200
Escapement	100	100	200	800	0	2,300	(1,500)	5,000
Total	100	100	300	1,100	400	3,700	(1,500)	7,200
1972								
Catch	0	0	100	200	200	1,300	0	1,800
Escapement	700	1,600	0	100	0	1,400	1,000	4,800
Total	700	1,600	100	300	200	2,700	1,000	6,600
1973								
Catch	0	0	0	700	300	1,500	0	2,500
Escapement	600	600	0	100	0	1,500	800	3,600
Total	600	600	0	800	300	3,000	800	6,100
1974								
Catch	0	0	0	300	200	2,200	0	2,700
Escapement	500	700	0	300	0	1,100	400	3,000
Total	500	700	0	600	200	3,300	400	5,700
1975								
Catch	0	400	0	300	200	1,200	0	2,100
Escapement	100	900	0	700	0	2,500	400	4,600
Total	100	1,300	0	1,000	200	3,700	400	6,700
1976								
Catch	0	1,500	100	500	600	2,200	0	4,900
Escapement	1,600	200	0	500	0	3,300	400	6,000
Total	1,600	1,700	100	1,000	600	5,500	400	10,900
1977								
Catch	0	2,500	100	700	500	1,700	0	5,500
Escapement	100	700	0	0	0	5,600	700	7,100
Total	100	3,200	100	700	500	7,300	700	12,600
1978								
Catch	0	9,500	0	600	700	3,400	0	14,200
Escapement	1,100	4,200	0	(200)	0	4,200	4,000	13,700
Total	1,100	13,700	0	(800)	700	7,600	4,000	27,900
1979								
Catch	0	9,700	0	1,400	500	5,400	0	17,000
Escapement	300	(3,200)	0	0	0	11,000	1,500	15,800
Total	300	(12,900)	0	1,400	500	16,400	1,500	32,800

-Continued-

Table 3. (Page 2 of 2)

Year	Cinder River	Port Heiden	Three Hills & Ilnik	Bear River	Herendeen-Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals
1980								
Catch	0	5,400	100	1,700	900	8,700	0	16,800
Escapement	(3,000)	(1,600)	0	100	0	5,500	800	(11,000)
Total	(3,000)	(7,000)	100	1,800	900	14,200	800	27,800
1981								
Catch	0	6,100	0	1,700	100	11,000	0	18,900
Escapement	(3,000)	(1,000)	0	2,300	0	5,200	900	(12,400)
Total	(3,000)	(7,100)	0	4,000	100	16,200	900	31,300
1982								
Catch	0	11,000	900	2,900	700	13,500	1,200	30,200
Escapement	(2,500)	(7,500)	0	900	0	7,000	2,100	(20,000)
Total	(2,500)	(18,500)	900	3,800	700	20,500	3,300	50,200
1983								
Catch	0	6,800	900	8,600	700	12,100	400	29,500
Escapement	7,200	900	0	(1,500)	0	12,500	3,600	25,700
Total	7,200	7,700	900	(10,100)	700	24,600	4,000	55,200
1984								
Catch	0	6,400	1,300	6,000	600	7,800	900	23,000
Escapement	400	7,400	0	600	0	6,300	3,000	17,700
Total	400	13,800	1,300	6,600	600	14,100	3,900	40,700
1985								
Catch	0	4,400	1,700	4,800	1,800	10,900	0	23,600
Escapement	700	4,700	0	1,200	0	3,200	3,200	13,000
Total	700	9,100	1,700	6,000	1,800	14,100	3,200	36,600
1986								
Catch	0	1,800	1,500	2,900	400	4,800	200	11,600
Escapement	1,700	2,400	0	800	0	1,800	2,100	8,800
Total	1,700	4,200	1,500	3,700	400	6,600	2,300	20,400
1987								
Catch	0	3,200	900	3,800	300	5,800	100	14,100
Escapement	900	1,400	0	700	0	4,100	3,600	10,700
Total	900	4,600	900	4,500	300	9,900	3,700	24,800
1988								
Catch	0	5,800	800	3,500	200	6,500	0	16,800
Escapement	400	2,200	200	1,200	0	3,300	3,300	10,600
Total	400	8,000	1,000	4,700	200	9,800	3,300	27,400
1989								
Catch	100	2,900	500	2,200	300	3,800	1,000	10,800
Escapement	200	800	0	900	0	3,100	600	5,600
Total	300	3,700	500	3,100	300	6,900	1,600	16,400
1990								
Catch	100	4,700	500	2,100	100	3,600	1,100	12,200
Escapement	1,600	800	0	1,400	0	2,300	1,000	7,100
Total	1,700	5,500	500	3,500	100	5,900	2,100	19,300
1991								
Catch	0	3,100	300	1,600	200	3,500	600	9,300
Escapement	600	900	0	700	0	6,800	500	9,500
Total	600	4,000	300	2,300	200	10,300	1,100	18,800
1992								
Catch	100	5,400	1,400	3,300	100	2,800	0	13,100
Escapement	300	1,400	0	1,000	0	3,000	900	6,600
Total	400	6,800	1,400	4,300	100	5,800	900	19,700
1993								
Catch	2,300	10,600	300	5,500	100	4,800	0	23,600
Escapement	(700)	(3,200)	0	1,800	0	6,000	2,000	13,700
Total	(3,000)	(13,800)	300	7,300	100	10,800	2,000	37,300

^a Figures in parenthesis are extrapolated estimates. Escapements are indexed totals.

Table 4. North Peninsula salmon harvest, in number of fish, by district, area, and section, 1993.

Stat. Area	Section	Number of Fish					Total
		Chinook	Sockeye	Coho	Pink	Chum	
NORTHWESTERN DISTRICT							
311-32	Urilia Bay Section	8	24,277	3,237	8	11,325	38,855
311-52	Swanson Lagoon Section	5	13,870	287	35	12,234	26,431
311-60	Bechevin Bay Section	0	127	576	8	1,299	2,010
312-10	Outside Izembek	0	674	1	0	130	805
312-20	Izembek Lagoon	0	10,138	0	5	1,623	11,766
312-40	Moffet Lagoon	<u>2</u>	<u>19,297</u>	<u>0</u>	<u>0</u>	<u>21,783</u>	<u>41,082</u>
	Izembek-Moffet Bay Section Total	2	30,109	1	5	23,536	53,653
NORTHWESTERN DISTRICT TOTAL		15	68,383	4,101	56	48,394	120,949
NORTHERN DISTRICT							
313-10	Black Hills Section	1	4,005	0	0	1,313	5,319
313-30	Nelson lagoon Section	4,833	452,858	24,645	37	4,533	486,906
314-20	Herendeen Bay	0	10	2	3,823	44,551	48,386
314-12	Port Moller Bight	<u>79</u>	<u>10,035</u>	<u>31</u>	<u>6</u>	<u>3,018</u>	<u>13,169</u>
	Herendeen-Moller Bay Section Total	79	10,045	33	3,829	47,569	61,555
315-11	Bear River	5,062	1,840,902	8,583	1,200	29,362	1,885,109
315-20	Muddy River	<u>404</u>	<u>200,912</u>	<u>1,590</u>	<u>70</u>	<u>1,169</u>	<u>204,145</u>
	Bear River Section Total	5,466	2,041,814	10,173	1,270	30,531	2,089,254
316-10	Three Hills Section	151	411,277	1,597	26	896	413,947
316-20	Outside Ilnik	144	750,038	18	53	930	751,183
316-22	Ilnik Lagoon	2	23,821	7,141	11	20	30,995
316-25	Strogonof Point	<u>48</u>	<u>94,931</u>	<u>38</u>	<u>46</u>	<u>554</u>	<u>95,617</u>
	Ilnik Section Total	194	868,790	7,197	110	1,504	877,795

-Continued-

Table 4. (page 2 of 2)

Stat. Area	Section	Number of Fish					Total
		Chinook	Sockeye	Coho	Pink	Chum	
317-20	Inner Port heiden Section	10,586	518	3,341	0	58	14,503
318-20	Cinder River Section	2,260	8,903	13,289	0	162	24,614
NORTHERN DISTRICT TOTAL		23,570	3,798,210	60,275	5,272	86,566	3,973,893
NORTH PENINSULA TOTAL		23,585	3,866,593	64,376	5,328	134,960	4,094,842
ALASKA PENINSULA TOTAL		37,998	7,555,667	284,524	9,933,435	1,183,217	18,994,841

Table 5. Uria Bay salmon harvest by species and day, 1993.

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
6/28	0	4,233	0	0	690
6/29	1	4,382	0	0	1,336
6/30	1	2,550	0	0	79
7/01	0	1,044	0	0	19
7/05	1	3,354	0	2	17
7/06	0	1,827	0	0	50
7/07	0	132	0	0	9
7/08	0	1,590	0	2	46
7/12	0	856	0	0	19
7/13	1	1,354	0	0	202
7/14	1	1,020	0	1	4,103
7/15	3	215	0	3	1,316
7/16	0	370	0	0	3,214
7/17	0	1,260	0	0	185
7/19	0	90	4	0	40
9/03	0	0	1,050	0	0
9/14	0	0	2,183	0	0
Total	8	24,277	3,237	8	11,325

Table 6. Northwestern District sockeye salmon runs^a, 1962-1993.

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1962	Catch	4,700	4,100	8,800
	Escapement	27,000	(24,000)	(51,000)
	Total	31,700	28,100	(59,800)
1963	Catch	1,700	5,200	6,900
	Escapement	40,000	14,000	54,000
	Total	41,700	19,200	60,900
1964	Catch	4,700	10,300	15,000
	Escapement	50,000	(20,000)	70,000
	Total	54,700	30,300	85,000
1965	Catch	400	14,100	14,500
	Escapement	7,000	6,900	13,900
	Total	7,400	21,000	28,400
1966	Catch	0	16,300	16,300
	Escapement	7,500	12,400	19,900
	Total	7,500	28,700	36,200
1967	Catch	8,100	5,300	13,400
	Escapement	9,000	5,800	14,800
	Total	17,100	11,100	28,200
1968	Catch	11,100	4,600	15,700
	Escapement	10,000	7,800	17,800
	Total	21,100	12,400	33,500
1969	Catch	6,100	3,500	9,600
	Escapement	14,000	39,500	53,500
	Total	20,100	43,000	63,100
1970	Catch	3,100	700	3,800
	Escapement	7,000	(35,000)	(42,000)
	Total	10,100	(35,700)	(45,800)
1971	Catch	6,900	2,400	9,300
	Escapement	4,000	30,000	34,000
	Total	10,900	32,400	43,300
1972	Catch	800	6,200	7,000
	Escapement	5,000	4,800	9,800
	Total	5,800	11,000	16,800
1973	Catch	1,300	2,600	3,900
	Escapement	2,000	5,000	7,000
	Total	3,300	7,600	10,900
1974	Catch	4,800	3,700	8,500
	Escapement	4,000	3,300	7,300
	Total	8,800	7,000	15,800

-Continued-

Table 6. (page 2 of 3)

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1975	Catch	1,500	1,500	3,000
	Escapement	7,000	12,300	19,300
	Total	8,500	13,800	22,300
1976	Catch	19,000	1,700	20,700
	Escapement	14,000	21,500	35,500
	Total	33,000	23,200	56,200
1977	Catch	3,100	31,500	34,600
	Escapement	26,500	28,600	55,100
	Total	29,600	60,100	89,700
1978	Catch	15,600	24,500	40,100
	Escapement	17,000	28,000	45,000
	Total	32,600	52,500	85,100
1979	Catch	10,800	63,100	73,900
	Escapement	9,000	33,700	42,700
	Total	19,800	96,800	116,600
1980	Catch	34,200	15,200	49,400
	Escapement	11,500	90,100	101,600
	Total	45,700	105,300	151,000
1981	Catch	30,900	20,100	51,000
	Escapement	12,000	60,700	72,700
	Total	42,900	80,800	123,700
1982	Catch	24,500	9,300	33,800
	Escapement	21,500	29,300	50,800
	Total	46,000	38,600	84,600
1983	Catch	15,200	14,300	29,500
	Escapement	18,500	14,200	32,700
	Total	33,700	28,500	62,200
1984	Catch	4,700	197,000	201,700
	Escapement	19,100	70,300	89,400
	Total	23,800	267,300	291,100
1985	Catch	6,200	77,000	83,200
	Escapement	17,200	29,500	46,700
	Total	23,400	106,500	129,900
1986	Catch	19,100	139,200	158,300
	Escapement	15,700	45,700	61,400
	Total	34,800	184,900	219,700
1987	Catch	6,500	137,900	144,400
	Escapement	13,600	36,300	49,900
	Total	20,100	174,200	194,300

-Continued-

Table 6. (page 3 of 3)

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1988	Catch	11,500	67,000	78,500
	Escapement	17,300	35,600	52,900
	Total	28,800	102,600	131,400
1989	Catch	8,600	44,000	52,600
	Escapement	22,500	58,100	80,600
	Total	31,100	102,100	133,200
1990	Catch	39,400	118,600	158,000
	Escapement	33,700	83,100	116,800
	Total	73,100	201,700	274,800
1991	Catch	24,500	156,700	181,200
	Escapement	51,600	86,700	138,300
	Total	76,100	243,400	138,300
1992	Catch	21,500	57,500	79,000
	Escapement	53,300	46,900	100,200
	Total	74,800	104,400	179,200
1993	Catch	30,100	38,300	68,400
	Escapement	34,400	40,000	74,400
	Total	64,500	78,300	142,800

^a Figures in parenthesis are extrapolated estimates. Escapements are indexed totals.

Table 7. Nelson Lagoon salmon harvest by species and day, 1993.

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
5/31	18	16	0	0	0
6/02	24	72	0	0	0
6/07	488	3,453	0	0	1
6/08	400	4,283	0	0	0
6/09	283	4,615	0	0	0
6/14	506	8,804	0	0	0
6/15	446	9,970	0	0	0
6/16	375	12,847	0	0	0
6/17	429	9,430	0	0	0
6/21	481	21,388	0	0	0
6/22	331	24,020	0	0	0
6/23	317	17,345	0	0	0
6/24	148	15,426	0	0	0
6/25	146	9,919	0	0	2
6/28	97	12,265	0	0	0
6/29	90	17,207	0	0	0
6/30	45	20,881	0	0	0
7/01	28	13,098	0	0	0
7/02	36	23,361	0	0	0
7/05	28	46,087	0	0	0
7/06	18	29,236	0	0	2
7/07	23	27,787	0	0	10
7/08	13	27,270	0	1	5
7/09	11	15,784	0	1	15
7/10	9	8,100	0	0	15
7/11	12	7,828	0	1	32
7/12	3	3,602	0	0	5
7/13	7	3,982	0	0	31
7/14	2	3,323	0	1	38
7/15	4	5,592	0	1	97
7/16	4	6,057	0	2	115
7/17	3	4,459	0	0	118
7/18	0	2,308	0	0	53
7/19	0	1,813	0	0	48
7/20	1	1,081	0	1	41
7/21	0	2,084	0	1	85
7/22	1	3,231	0	1	172
7/23	0	2,274	0	1	181
7/24	0	1,428	0	0	136
7/25	0	1,541	0	0	217
7/26	0	710	0	0	74
7/27	1	1,213	0	1	169
7/28	1	1,357	0	4	128
7/29	1	2,038	3	1	159
7/30	0	1,949	3	1	167
8/02	0	3,042	34	2	880
8/03	0	1,600	14	1	394
8/04	1	1,536	31	1	274
8/05	0	1,180	20	0	168
8/08	0	50	3	0	2
8/09	0	1,075	190	4	210

-Continued-

Table 7. (page 2 of 2)

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
8/09	0	1,075	190	4	210
8/10	0	770	160	4	175
8/11	1	869	167	3	121
8/12	1	965	171	0	126
8/16	0	367	378	1	36
8/17	0	314	503	0	21
8/18	0	57	251	0	0
8/23	0	152	4,159	1	5
8/24	0	195	5,660	1	2
8/30	0	85	5,085	1	3
8/31	0	35	2,352	0	0
9/01	0	11	1,850	0	0
9/06	0	7	1,323	0	0
9/07	0	14	2,288	0	0
Total	4,833	452,858	24,645	37	4,533

Table 8. Bear River salmon harvest by species and day, 1993.

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
5/31	126	98	0	0	3
6/01	343	135	0	0	1
6/02	258	260	0	0	3
6/07	493	1,248	0	0	12
6/08	1,295	5,106	0	0	70
6/09	821	4,299	0	0	52
6/10	3	12	0	0	2
6/14	189	16,109	0	0	25
6/15	378	18,462	8	0	32
6/16	372	21,291	0	0	14
6/17	129	16,971	0	0	7
6/18	31	18,127	0	0	21
6/21	139	55,948	0	0	46
6/22	121	65,110	0	0	48
6/23	86	51,124	0	0	250
6/24	107	73,125	0	0	410
6/25	104	54,622	0	0	230
6/26	0	94	0	0	0
6/28	35	104,997	0	0	402
6/29	39	80,585	0	0	1,336
6/30	40	70,493	0	0	1,099
7/01	55	62,844	0	0	495
7/04	30	108,319	0	1	898
7/05	19	37,663	0	0	397
7/06	27	44,394	0	0	972
7/07	14	28,089	0	0	739
7/08	38	39,518	0	0	459
7/09	15	17,074	0	0	789
7/10	7	11,750	0	0	272
7/11	3	9,631	0	0	333
7/12	14	13,844	0	0	482
7/13	23	12,748	0	1	304
7/14	13	16,196	0	2	692
7/15	8	15,328	0	3	726
7/16	5	11,624	0	6	478
7/17	12	9,018	0	6	441
7/18	3	7,605	2	0	282
7/19	3	11,013	0	0	99
7/20	1	13,992	0	0	112
7/21	5	18,368	0	2	300
7/22	1	13,681	0	2	224
7/23	4	13,573	1	2	240
7/24	4	14,664	0	15	444
7/25	6	10,555	0	12	372
7/26	2	8,685	1	43	922
7/27	3	18,070	4	66	1,566
7/28	6	17,706	0	33	1,391
7/29	1	22,509	10	41	1,525
7/30	3	20,747	0	26	823
7/31	2	19,696	3	67	1,251
8/01	3	17,534	2	53	701

-Continued-

Table 8. (page 2 of 2)

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
8/02	1	16,799	1	40	575
8/03	1	19,091	4	73	638
8/04	2	23,838	13	94	853
8/05	0	31,616	37	117	1,138
8/10	3	6,062	107	43	534
8/11	1	14,522	70	24	508
8/12	1	73,591	88	36	833
8/13	5	53,321	279	24	418
8/14	1	37,833	527	145	530
8/15	0	509	5	0	12
8/16	2	42,208	49	32	191
8/17	1	25,681	90	20	199
8/18	0	20,529	104	11	160
8/19	2	32,025	197	13	217
8/20	0	14,311	80	7	112
8/21	2	40,111	245	26	196
8/22	1	30,689	460	25	173
8/23	0	20,470	271	25	87
8/24	1	17,641	372	16	35
8/25	1	21,795	686	33	120
8/26	0	11,836	530	15	41
8/27	0	13,526	495	8	36
8/28	0	13,889	748	3	12
8/29	0	13,886	343	16	18
8/30	0	16,116	533	11	13
8/31	0	12,500	501	0	11
9/01	0	18,483	563	9	34
9/02	0	20,426	541	3	9
9/03	1	14,868	516	1	8
9/04	0	12,180	487	9	9
9/05	0	5,888	264	4	6
9/06	0	454	61	0	0
9/07	0	7,196	122	0	8
9/08	0	7,232	345	3	1
9/09	0	4,183	305	3	4
9/10	1	1,855	103	0	0
Total	5,466	2,041,814	10,173	1,270	30,531

Table 9. Northern District sockeye salmon runs, 1962-1993^a.

Year		Outer Port Heiden ^b and Cinder River	Inner Port Heiden	Three Hills & Ilnik	Bear River	Herendeen- Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals
1962	Catch	900	17,800	9,700	142,900	0	69,600	0	240,900
	Escapement	5,000	(19,000)	5,900	215,000	100	54,200	1,000	300,200
	Total	5,900	(36,800)	15,600	357,900	100	123,800	1,000	541,100
1963	Catch	0	0	26,600	120,000	0	71,500	0	218,100
	Escapement	1,400	(14,200)	10,400	238,600	100	31,000	(1,300)	297,000
	Total	1,400	(14,200)	37,000	358,600	100	102,500	(1,300)	515,100
1964	Catch	0	6,300	33,300	107,500	0	88,700	0	235,800
	Escapement	1,500	10,000	(6,500)	250,200	200	80,000	1,500	349,900
	Total	1,500	16,300	(39,800)	357,700	200	168,700	1,500	585,700
1965	Catch	0	9,700	58,400	62,400	100	53,800	0	184,400
	Escapement	7,500	30,000	(12,500)	137,000	0	37,000	500	224,500
	Total	7,500	39,700	(70,900)	199,400	100	90,800	500	408,900
1966	Catch	0	8,000	11,000	152,600	0	60,000	0	231,600
	Escapement	3,000	(11,700)	24,300	185,000	600	36,500	2,300	263,400
	Total	3,000	(19,700)	35,300	337,600	600	96,500	2,300	495,000
1967	Catch	0	3,100	0	156,100	12,500	40,200	0	211,900
	Escapement	(3,800)	(12,000)	26,400	200,000	200	42,000	(500)	284,900
	Total	(3,800)	(15,100)	26,400	356,100	12,700	82,200	(500)	496,800
1968	Catch	0	0	78,600	90,500	3,400	51,100	0	223,600
	Escapement	4,100	(15,000)	(15,000)	166,000	400	31,000	(2,000)	233,500
	Total	4,100	(15,000)	(93,600)	256,500	3,800	82,100	(2,000)	457,100
1969	Catch	0	5,200	24,000	205,500	4,400	72,800	0	311,900
	Escapement	(3,800)	(15,000)	(15,600)	406,000	100	78,500	(2,500)	521,500
	Total	(3,800)	(20,200)	(39,600)	611,500	4,500	151,300	(2,500)	833,400
1970	Catch	0	0	21,000	113,700	1,700	52,000	0	188,400
	Escapement	1,500	14,100	16,100	294,000	0	82,400	1,400	409,500
	Total	1,500	14,100	37,100	407,700	1,700	134,400	1,400	597,900
1971	Catch	0	0	57,100	238,600	1,300	47,500	0	344,500
	Escapement	2,000	30,800	26,500	281,000	200	60,100	500	401,100
	Total	2,000	30,800	83,600	519,600	1,500	107,600	500	745,600
1972	Catch	0	0	12,000	136,200	1,000	23,200	0	172,400
	Escapement	400	3,500	13,100	135,400	0	28,000	0	180,400
	Total	400	3,500	25,100	271,600	1,000	51,200	0	352,800
1973	Catch	0	0	16,700	117,700	3,300	23,900	0	161,600
	Escapement	1,200	7,200	16,000	130,100	0	18,700	0	173,200
	Total	1,200	7,200	32,700	247,800	3,300	42,600	0	334,800
1974	Catch	0	0	50,700	157,500	7,700	25,600	0	241,500
	Escapement	1,300	1,400	14,600	266,500	0	39,900	1,800	325,500
	Total	1,300	1,400	65,300	424,000	7,700	65,500	1,800	567,000
1975	Catch	0	600	8,700	165,700	3,700	51,500	0	230,200
	Escapement	900	5,100	40,800	310,000	100	138,600	2,000	497,500
	Total	900	5,700	49,500	475,700	3,800	190,100	2,000	727,700
1976	Catch	0	5,000	219,700	310,900	9,900	74,900	0	620,400
	Escapement	6,300	30,300	15,700	328,000	500	108,900	7,400	497,100
	Total	6,300	35,300	235,400	638,900	10,400	183,800	7,400	1,117,500
1977	Catch	0	3,400	97,900	268,700	11,100	56,300	0	437,400
	Escapement	3,900	23,600	20,700	265,200	13,500	155,000	4,100	486,000
	Total	3,900	27,000	118,600	533,900	24,600	211,300	4,100	923,400
1978	Catch	0	800	32,200	556,400	53,700	213,400	0	856,500
	Escapement	3,800	18,800	21,200	814,000	4,900	304,300	1,500	1,168,500
	Total	3,800	19,600	53,400	1,370,400	58,600	517,700	1,500	2,025,000

-Continued-

Table 9. (page 2 of 2)

Year	Outer Port Heiden ^b and Cinder River	Outer Port Heiden	Three Hills & Ilnik	Bear River	Herendeen-Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals	
1979	Catch	100	36,900	194,400	1,320,900	32,100	320,900	0	1,905,300
	Escapement	6,000	(46,700)	97,500	1,013,000	5,000	360,100	3,000	1,531,300
	Total	6,100	(83,600)	291,900	2,333,900	37,100	681,000	3,000	3,436,600
1980	Catch	0	24,600	252,200	741,900	10,500	318,500	0	1,347,700
	Escapement	30,000	(47,000)	(100,000)	751,000	1,500	352,600	3,900	1,286,000
	Total	30,000	(71,600)	(352,200)	1,492,900	12,000	671,100	3,900	2,633,700
1981	Catch	0	3,800	68,900	1,327,200	18,600	374,700	0	1,793,200
	Escapement	100,000	(26,500)	(151,000)	741,500	600	251,000	(4,000)	1,274,700
	Total	100,000	(30,400)	(219,900)	2,068,700	19,200	625,700	(4,000)	3,067,900
1982	Catch	0	8,800	142,500	1,009,300	11,300	229,200	400	1,401,500
	Escapement	(13,000)	(62,000)	(43,000)	361,300	500	179,600	6,000	665,400
	Total	(13,000)	(70,800)	(185,500)	1,370,600	11,800	408,800	6,400	2,066,900
1983	Catch	100	100	729,600	1,126,200	15,000	192,900	0	2,063,900
	Escapement	9,000	8,600	40,100	358,000	500	128,800	2,600	547,600
	Total	9,100	8,700	769,700	1,484,200	15,500	321,700	2,600	2,611,500
1984	Catch	0	1,700	743,700	637,400	31,400	118,800	0	1,533,000
	Escapement	16,000	31,100	22,300	414,000	700	251,000	600	735,700
	Total	16,000	32,800	766,000	1,051,400	32,100	369,800	600	2,268,700
1985	Catch	300	5,100	978,200	821,300	4,500	703,500	0	2,512,900
	Escapement	12,600	45,500	22,700	451,500	700	314,800	3,700	851,500
	Total	12,900	50,600	1,000,900	1,272,800	5,200	1,018,300	3,700	3,364,400
1986	Catch	700	38,000	1,148,800	938,200	1,300	178,400	0	2,305,400
	Escapement	25,700	26,400	66,900	279,400	300	117,900	2,300	518,900
	Total	26,400	64,400	1,215,700	1,217,600	1,600	296,300	2,300	2,824,300
1987	Catch	200	2,400	719,400	214,000	700	128,500	100	1,065,300
	Escapement	15,300	28,300	30,700	266,700	700	155,700	8,700	506,100
	Total	15,500	30,700	750,100	480,700	1,400	284,200	8,800	1,571,400
1988	Catch	600	10,000	753,600	495,000	3,900	186,600	0	1,449,700
	Escapement	2,000	35,900	26,900	347,500	400	142,500	6,900	562,100
	Total	2,600	46,900	780,500	842,500	4,300	329,100	6,900	2,011,800
1989	Catch	3,000	13,400	749,000	557,800	5,700	325,000	14,300	1,668,200
	Escapement	4,000	11,200	16,700	487,000	500	206,800	7,600	733,800
	Total	7,000	24,600	765,700	1,044,800	6,200	531,800	21,900	2,402,000
1990	Catch	1,200	9,700	942,900	876,200	4,300	410,400	13,300	2,258,000
	Escapement	14,000	26,800	35,800	564,300	400	269,200	5,700	916,200
	Total	15,200	36,500	978,700	1,440,500	4,700	679,600	19,000	3,174,200
1991	Catch	300	5,400	864,900	1,044,700	4,600	274,000	16,400	2,210,300
	Escapement	47,400	26,500	135,200	681,200	(500)	279,200	9,000	1,179,000
	Total	47,700	31,900	1,000,100	1,725,900	5,100	553,200	25,400	3,389,300
1992	Catch	4,500	8,000	1,700,200	1,398,300	5,900	378,700	900	3,496,500
	Escapement	15,200	33,100	45,100	471,200	200	179,700	16,600	761,100
	Total	19,700	41,100	1,745,300	1,869,500	6,100	558,400	17,500	4,257,600
1993	Catch	8,900	500	1,280,100	2,041,800	10,000	452,900	4,000	3,798,200
	Escapement	(20,000)	(50,000)	70,300	501,900	400	267,200	10,200	920,000
	Total	(28,900)	(50,500)	1,350,400	2,543,700	10,400	720,100	14,200	4,718,200

^a Figures in parenthesis are extrapolated estimates. Except for Bear and Nelson Rivers where weir and tower counts are used, escapements are indexed totals.

^b Outer Port Heiden Section catches occurred only between 1986 and 1989. This section has been closed since 1989.

Table 10. Three Hills Section salmon harvest by species and day, 1993.

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
6/28	29	36,609	1	0	23
6/29	35	56,297	0	3	53
6/30	19	61,502	0	0	10
7/01	9	71,855	0	0	52
7/04	10	58,913	0	4	80
7/05	5	27,988	0	0	22
7/06	8	13,425	0	0	38
7/07	3	4,560	0	0	0
7/08	3	1,897	0	0	10
7/09	7	7,199	0	0	35
7/10	1	3,819	0	0	4
7/11	2	4,025	0	0	0
7/12	2	5,530	0	0	0
7/13	4	7,562	0	0	17
7/14	5	9,957	0	2	25
7/15	5	5,970	2	0	15
7/16	3	4,045	0	0	31
7/17	0	1,283	0	0	11
7/18	0	1,079	0	0	0
7/19	0	407	0	0	0
7/22	0	771	0	0	0
7/24	0	1,962	11	0	18
7/25	0	167	0	0	5
7/27	0	807	0	0	17
7/28	0	240	0	0	15
7/31	0	273	0	0	0
8/01	0	1,375	0	0	0
8/02	0	1,091	0	0	0
8/03	0	614	0	0	0
8/04	0	1,621	2	0	23
8/10	1	2,187	188	0	67
8/11	0	5,766	362	13	227
8/12	0	4,131	149	0	97
8/23	0	2,143	78	2	0
8/24	0	229	48	0	0
8/26	0	1,149	201	2	1
8/27	0	1,165	268	0	0
8/29	0	1,664	287	0	0
Total	151	411,277	1,597	26	896

Table 11. Ilnik Section salmon harvest by species and day, 1993.

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
6/14	0	739	0	0	0
6/15	0	1,580	0	0	0
6/16	0	918	0	0	0
6/17	0	2,193	0	0	0
6/21	0	1,807	0	0	0
6/22	0	2,416	0	0	0
6/23	0	472	0	0	0
6/24	0	1,667	0	0	0
6/25	0	2,076	0	0	0
6/26	0	637	0	0	0
6/28	0	1,087	0	0	0
6/29	0	3,289	0	0	0
7/02	0	1,094	0	0	0
7/04	0	1,603	0	0	0
7/05	15	174,565	0	1	129
7/06	28	124,688	0	1	132
7/07	4	87,590	0	2	62
7/08	15	99,746	0	0	22
7/09	16	66,878	0	1	57
7/10	7	38,393	0	2	34
7/11	13	27,053	0	0	20
7/12	8	20,484	1	0	36
7/13	5	17,605	0	0	78
7/14	17	43,452	1	10	181
7/15	28	39,313	2	32	138
7/16	9	27,268	2	3	212
7/17	2	14,996	0	1	77
7/18	0	7,969	0	0	61
7/19	1	2,930	0	0	15
7/20	2	1,570	0	0	19
7/21	1	4,126	0	0	0
7/22	2	2,907	0	0	17
7/23	3	3,657	3	0	7
7/24	10	4,557	0	0	16
7/25	3	6,492	0	0	27
7/26	1	4,682	0	0	0
7/27	0	5,738	4	0	14
7/28	0	3,631	2	0	16
7/29	0	5,319	0	0	0
7/30	0	6,171	27	45	125
7/31	2	2,303	2	1	2
8/01	0	1,892	0	0	0
8/04	0	38	0	0	2
8/11	0	149	0	0	0
8/17	1	307	79	8	0
8/20	0	107	3	0	5
8/23	1	46	559	0	0
8/24	0	17	626	0	0
8/25	0	18	544	3	0
8/26	0	555	9	0	0
8/30	0	0	1,191	0	0

-Continued-

Table 11. (page 2 of 2)

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
8/31	0	0	251	0	0
9/01	0	0	695	0	0
9/02	0	0	505	0	0
9/05	0	0	62	0	0
9/06	0	0	540	0	0
9/07	0	0	896	0	0
9/08	0	0	1,193	0	0
Total	194	868,790	7,197	110	1,504

Table 12. North Peninsula salmon harvest by species and day, 1993.

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
5/31	1,168	114	0	0	3
6/01	786	135	0	0	1
6/02	514	333	0	0	3
6/07	2,429	4,714	0	0	13
6/08	3,390	9,441	0	0	70
6/09	2,552	8,933	0	0	52
6/10	8	30	0	0	10
6/14	2,977	26,242	0	0	224
6/15	3,185	31,170	8	0	177
6/16	1,975	36,341	0	0	279
6/17	562	28,844	0	0	146
6/18	40	18,215	0	0	85
6/21	739	82,139	0	0	452
6/22	777	93,998	0	0	229
6/23	678	71,605	0	0	997
6/24	265	91,289	0	0	768
6/25	252	67,263	0	0	531
6/26	0	731	0	0	0
6/28	162	159,223	1	0	1,128
6/29	165	162,091	0	3	2,850
6/30	106	156,408	0	0	1,686
7/01	92	148,841	0	0	566
7/02	36	24,455	0	0	0
7/04	40	169,233	0	5	1,122
7/05	71	291,720	0	3	5,223
7/06	81	217,160	2	10	5,421
7/07	44	154,041	0	2	7,129
7/08	69	171,642	0	13	2,987
7/09	49	107,405	0	2	947
7/10	24	62,480	0	2	355
7/11	30	48,830	0	1	404
7/12	27	44,388	5	0	543
7/13	40	44,970	0	1	2,160
7/14	38	76,276	1	16	10,006
7/15	48	69,813	5	39	5,669
7/16	21	49,364	2	11	4,050
7/17	17	31,016	0	7	832
7/18	3	18,961	2	0	396
7/19	4	18,403	4	0	1,667
7/20	4	17,453	0	1	188
7/21	6	26,893	0	3	1,405
7/22	4	22,260	0	3	1,678
7/23	7	19,932	4	3	1,444
7/24	14	22,611	11	15	614
7/25	9	18,755	0	12	621
7/26	3	14,286	1	43	1,301
7/27	4	27,278	8	72	2,041
7/28	7	24,784	2	37	1,550
7/29	3	29,991	13	42	1,697
7/30	3	28,867	30	72	1,115
7/31	4	22,272	5	68	1,253

-Continued-

Table 12. (page 2 of 3)

Catch Date	Number of Fish				
	Chinook	Sockeye	Coho	Pink	Chum
8/01	3	20,898	2	55	716
8/02	5	23,203	77	42	2,291
8/03	4	22,387	38	260	4,777
8/04	3	28,742	46	396	9,653
8/05	0	34,275	57	846	13,059
8/06	0	2,000	0	652	8,392
8/07	0	0	0	425	5,812
8/08	0	52	5	1,516	4,952
8/09	4	5,428	1,331	37	3,604
8/10	5	13,014	1,587	52	2,216
8/11	3	22,639	719	40	1,544
8/12	2	78,687	408	36	1,056
8/13	5	53,321	279	24	418
8/14	1	37,833	527	145	530
8/15	0	509	5	0	12
8/16	2	42,823	2,133	33	276
8/17	3	26,621	2,682	32	227
8/18	1	20,909	445	11	161
8/19	2	32,114	197	13	217
8/20	0	14,418	83	7	117
8/21	2	40,164	259	26	196
8/22	1	30,699	472	25	174
8/23	2	22,851	8,275	28	92
8/24	1	18,098	8,876	17	37
8/25	2	21,813	2,885	36	120
8/26	0	13,540	740	17	42
8/27	0	14,691	763	8	36
8/28	0	13,889	748	3	12
8/29	0	15,550	630	16	18
8/30	0	16,201	6,809	12	16
8/31	0	12,535	3,104	0	11
9/01	0	18,494	4,710	9	34
9/02	0	20,426	1,469	3	9
9/03	1	15,018	2,581	1	16
9/04	0	12,255	582	9	10
9/05	0	5,888	326	4	6
9/06	0	461	1,924	0	0
9/07	0	7,210	3,456	0	8
9/08	0	7,232	1,879	3	1
9/09	0	4,183	305	3	4
9/10	1	1,855	103	0	0
9/14	0	28	2,755	0	0
Total	23,585	3,866,593	64,376	5,328	134,960

Table 13. Northwestern District pink salmon runs, 1962-1993^a.

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1962	Catch	0	30,800	30,800
	Escapement	0	4,000	4,000
	Total	0	34,800	34,800
1963	Catch	0	6,000	6,000
	Escapement	0	4,400	4,400
	Total	0	10,400	10,400
1964	Catch	100	6,700	6,800
	Escapement	0	(15,000)	(15,000)
	Total	100	21,700	21,800
1965	Catch	0	2,000	2,000
	Escapement	0	900	900
	Total	0	2,900	2,900
1966	Catch	0	16,000	16,000
	Escapement	400	1,300	1,700
	Catch	400	17,300	17,700
1967	Catch	0	300	300
	Escapement	200	500	700
	Total	200	800	1,000
1968	Catch	0	0	0
	Escapement	1,500	25,000	26,500
	Total	1,500	25,000	26,500
1969	Catch	0	0	0
	Escapement	2,300	2,100	4,400
	Total	2,300	2,100	4,400
1970	Catch	0	7,800	7,800
	Escapement	0	11,100	11,100
	Total	0	18,900	18,900
1971	Catch	0	300	300
	Escapement	100	8,400	8,500
	Total	100	8,700	8,800
1972	Catch	0	0	0
	Escapement	0	1,200	1,200
	Total	0	1,200	1,200
1973	Catch	0	0	0
	Escapement	0	(200)	(200)
	Total	0	(200)	(200)
1974	Catch	0	10,300	10,300
	Escapement	0	(23,000)	(23,000)
	Total	0	(33,300)	(33,300)

-Continued-

Table 13. (page 2 of 3)

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1975	Catch	0	0	0
	Escapement	100	500	600
	Total	100	500	600
1976	Catch	0	0	0
	Escapement	100	37,200	37,300
	Total	100	37,200	37,300
1977	Catch	0	0	0
	Escapement	200	6,200	6,400
	Total	200	6,200	6,400
1978	Catch	2,200	465,600	467,800
	Escapement	0	90,400	90,400
	Total	2,200	556,000	558,200
1979	Catch	0	3,400	3,400
	Escapement	0	9,300	9,300
	Total	0	12,700	12,700
1980	Catch	0	297,900	297,900
	Escapement	0	94,000	94,000
	Total	0	391,900	391,900
1981	Catch	0	9,100	9,100
	Escapement	0	5,700	5,700
	Total	0	14,800	14,800
1982	Catch	0	5,100	5,100
	Escapement	200	51,500	51,700
	Total	200	56,600	56,800
1983	Catch	0	1,300	1,300
	Escapement	0	3,900	3,900
	Total	0	5,200	5,200
1984	Catch	100	9,700	9,800
	Escapement	0	33,000	33,000
	Total	100	42,700	42,800
1985	Catch	0	1,900	1,900
	Escapement	0	1,400	1,400
	Total	0	3,300	3,300
1986	Catch	0	9,900	9,900
	Escapement	0	12,900	12,900
	Total	0	22,800	22,800
1987	Catch	0	800	800
	Escapement	0	1,100	1,100
	Total	0	1,900	1,900

-Continued-

Table 13. (page 3 of 3)

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1988	Catch	1,200	29,000	30,200
	Escapement	1,800	26,700	28,500
	Total	3,000	55,700	58,700
1989	Catch	0	3,200	3,200
	Escapement	0	1,900	1,900
	Total	0	5,100	5,100
1990	Catch	100	0	100
	Escapement	21,800	400	22,200
	Total	21,900	400	22,300
1991	Catch	0	3,400	3,400
	Escapement	0	1,200	1,200
	Total	0	4,600	4,600
1992	Catch	700	7,600	8,300
	Escapement	600	49,400	50,000
	Total	1,300	57,000	58,300
1993	Catch	0	100	100
	Escapement	0	700	700
	Total	0	800	800

^aFigures in parenthesis are extrapolated estimates. Escapements are indexed totals.

Table 14. Northern District chum salmon runs, 1962-1993^a.

Year		Cinder River	Port Heiden	Three Hills & Ilnik	Bear River	Herendeen-Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals
1962	Catch	200	8,600	600	7,000	0	3,700	0	20,100
	Escapement	500	(1,900)	(1,500)	1,500	18,300	9,700	(1,000)	34,400
	Total	700	(10,500)	(2,100)	8,500	18,300	13,400	(1,000)	54,500
1963	Catch	0	0	700	600	0	4,100	0	5,400
	Escapement	1,200	(7,400)	(1,500)	(3,000)	26,000	7,000	(1,300)	47,000
	Total	1,200	(7,400)	(2,200)	(3,600)	26,000	11,000	(1,300)	52,800
1964	Catch	0	0	2,300	6,500	39,800	3,400	0	52,000
	Escapement	200	1,000	(1,500)	3,000	35,900	2,000	(1,000)	44,600
	Total	200	1,000	(3,800)	9,500	75,700	5,400	(1,000)	96,600
1965	Catch	0	800	2,300	1,500	13,600	2,200	0	20,400
	Escapement	0	8,500	(1,500)	1,000	8,000	4,000	(500)	23,500
	Total	0	9,300	(3,800)	2,500	21,600	6,200	(500)	43,900
1966	Catch	0	0	300	3,700	17,900	4,800	0	26,700
	Escapement	4,400	(3,400)	(1,500)	1,000	56,200	17,000	2,000	85,500
	Total	4,400	(3,400)	(1,800)	4,700	74,100	21,800	2,000	112,200
1967	Catch	0	0	0	13,600	2,400	5,100	0	21,100
	Escapement	2,500	3,000	9,600	2,500	25,000	29,800	(2,000)	74,400
	Total	2,500	3,000	9,600	16,100	27,400	34,900	(2,000)	95,500
1968	Catch	0	0	3,100	7,500	10,500	3,500	0	24,600
	Escapement	0	(11,000)	0	9,500	47,700	18,100	2,000	88,300
	Total	0	(11,000)	3,100	17,000	58,200	21,600	2,000	112,900
1969	Catch	0	1,200	1,300	10,300	7,800	3,500	0	24,100
	Escapement	2,500	(11,000)	(1,500)	1,000	14,000	13,000	500	43,500
	Total	2,500	(12,200)	(2,800)	11,300	21,800	16,500	500	67,600
1970	Catch	0	0	1,200	14,400	12,200	7,700	0	35,500
	Escapement	1,300	22,000	500	2,000	42,800	36,000	(1,500)	106,100
	Total	1,300	22,000	1,700	16,400	55,000	43,700	(1,500)	141,600
1971	Catch	0	0	2,500	13,000	1,200	3,800	0	20,500
	Escapement	2,500	12,100	800	0	14,500	19,000	(500)	49,400
	Total	2,500	12,100	3,300	13,000	15,700	22,800	(500)	69,900
1972	Catch	0	0	800	14,000	7,400	3,200	0	25,400
	Escapement	5,300	12,200	500	3,700	8,000	16,800	(500)	47,000
	Total	5,300	12,200	1,300	17,700	15,400	20,000	(500)	72,400

-Continued-

Table 14. (page 2 of 3)

Year		Cinder River	Port Heiden	Three Hills & Ilnik	Bear River	Herendeen-Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals
1973	Catch	0	0	800	34,900	12,200	1,800	0	49,700
	Escapement	600	22,800	800	800	3,700	12,700	0	41,400
	Total	600	22,800	1,600	35,700	15,900	14,500	0	91,100
1974	Catch	0	0	1,300	15,100	3,200	500	0	20,100
	Escapement	4,600	4,500	0	1,500	3,700	8,300	400	23,000
	Total	4,600	4,500	1,300	16,600	6,900	8,800	400	43,100
1975	Catch	0	0	100	3,800	300	700	0	4,900
	Escapement	300	1,500	2,000	2,000	7,300	4,500	0	17,600
	Total	300	1,500	2,100	5,800	7,600	5,200	0	22,500
1976	Catch	0	1,100	2,900	12,300	5,500	5,800	0	27,600
	Escapement	1,900	30,700	5,700	18,000	28,500	42,500	100	127,400
	Total	1,900	31,800	8,600	30,300	34,000	48,300	100	155,000
1977	Catch	0	0	7,100	32,300	34,800	10,600	100	84,900
	Escapement	(1,700)	32,000	(1,500)	17,000	108,500	83,300	1,500	245,500
	Total	(1,700)	32,000	(8,600)	49,300	143,300	93,900	1,600	330,400
1978	Catch	0	0	1,200	14,600	6,600	10,300	0	32,700
	Escapement	7,400	22,000	(1,500)	(15,500)	89,300	10,200	(1,000)	146,900
	Total	7,400	22,000	(2,700)	(30,100)	95,900	20,500	(1,000)	179,600
1979	Catch	0	800	800	17,400	10,900	5,700	0	35,600
	Escapement	(3,600)	(32,700)	0	7,000	30,600	37,000	4,000	114,900
	Total	(3,600)	(33,500)	800	24,400	41,500	42,700	4,000	150,500
1980	Catch	0	2,600	29,800	161,700	58,600	80,100	0	332,800
	Escapement	(10,000)	(33,700)	(10,000)	20,000	116,100	164,000	10,400	364,200
	Total	(10,000)	(36,300)	(39,800)	181,700	174,700	244,100	10,400	697,000
1981	Catch	0	200	7,100	155,000	126,200	62,800	0	351,300
	Escapement	(11,800)	(73,400)	(11,000)	27,200	85,000	57,000	(11,000)	276,400
	Total	(11,800)	(73,600)	(18,100)	182,200	211,200	119,800	(11,000)	627,700
1982	Catch	0	700	21,200	142,400	50,200	21,400	0	235,900
	Escapement	(5,500)	(35,500)	1,000	42,400	152,000	29,100	(2,000)	267,500
	Total	(5,500)	(36,200)	22,200	184,800	202,200	50,500	(2,000)	503,400
1983	Catch	0	0	26,100	87,700	51,300	14,000	0	179,100
	Escapement	17,200	14,500	11,200	(15,000)	126,000	14,000	1,200	199,100
	Total	17,200	14,500	37,300	(102,700)	177,300	28,000	1,200	378,200

-Continued-

Table 14. (page 3 of 3)

Year		Cinder River	Port Heiden	Three Hills & Ilnik	Bear River	Herendeen-Moller Bay	Nelson Lagoon	Caribou Flats & Black Hills	Northern District Totals
1984	Catch	0	200	174,200	242,300	119,200	78,400	0	614,300
	Escapement	13,000	85,000	4,000	7,000	241,300	49,000	10,000	409,300
	Total	13,000	85,200	178,200	249,300	360,500	127,400	10,000	1,023,600
1985	Catch	0	0	86,600	68,300	262,000	6,600	0	423,500
	Escapement	3,200	26,500	200	5,200	71,700	13,000	4,100	123,900
	Total	3,200	26,500	86,800	73,500	333,700	19,600	4,100	547,400
1986	Catch	100	800	38,700	86,700	27,800	3,600	0	157,700
	Escapement	2,200	12,000	0	6,400	55,800	0,800	700	77,900
	Total	2,300	12,800	38,700	93,100	83,600	4,400	700	235,600
1987	Catch	0	1,000	48,000	85,500	14,200	6,700	0	155,400
	Escapement	12,400	55,400	100	5,000	88,600	5,200	4,700	171,400
	Total	12,400	56,400	48,100	90,500	102,800	11,900	4,700	326,800
1988	Catch	0	4,800	47,800	73,700	75,800	12,600	0	214,700
	Escapement	5,300	41,600	100	3,000	76,500	11,000	6,600	144,100
	Total	5,300	46,400	47,900	76,700	152,300	23,600	6,600	358,800
1989	Catch	0	1,200	16,900	40,300	66,000	5,000	1,900	131,300
	Escapement	5,000	8,900	0	3,500	83,400	0,800	700	102,300
	Total	5,000	10,100	16,900	43,800	149,400	5,800	2,600	233,600
1990	Catch	100	300	7,700	26,900	57,500	2,200	800	95,500
	Escapement	4,000	7,000	(200)	1,100	101,600	(1,000)	700	115,600
	Total	4,100	7,300	7,900	28,000	159,100	3,200	1,500	211,100
1991	Catch	200	400	20,800	72,800	23,600	7,400	3,400	128,600
	Escapement	4,500	13,400	0	(2,400)	55,000	(5,000)	1,200	81,500
	Total	4,700	13,800	20,800	75,200	78,600	12,400	4,600	210,100
1992	Catch	400	1,200	29,300	62,200	135,900	7,700	200	236,900
	Escapement	5,000	22,100	300	500	89,700	16,200	2,600	136,400
	Total	5,400	23,300	29,600	62,700	225,600	23,900	2,800	373,300
1993	Catch	200	100	2,400	30,500	47,600	4,500	1,300	86,600
	Escapement	(4,000)	(11,000)	(400)	5,700	156,700	4,400	1,200	183,400
	Total	(4,200)	(11,100)	(2,800)	36,200	204,300	8,900	2,500	270,000

^aFigures in parenthesis are extrapolated estimates. Escapements are indexed totals.

Table 15. Northwestern District chum salmon runs, 1962-1993^a.

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1962	Catch	6,200	8,500	14,700
	Escapement	68,000	48,000	116,500
	Total	74,200	57,000	131,200
1963	Catch	3,200	41,300	44,500
	Escapement	133,500	22,300	155,800
	Total	136,700	63,600	200,300
1964	Catch	60,200	25,700	85,900
	Escapement	95,500	(16,000)	111,500
	Total	155,700	41,700	197,400
1965	Catch	4,700	44,600	49,300
	Escapement	24,000	(1,800)	25,800
	Total	28,700	46,400	75,100
1966	Catch	8,900	47,200	56,100
	Escapement	54,000	10,000	64,000
	Total	62,900	57,200	120,100
1967	Catch	9,900	8,900	18,800
	Escapement	32,800	15,400	48,200
	Total	42,700	24,300	67,000
1968	Catch	48,800	200	49,000
	Escapement	142,700	19,800	162,500
	Total	191,500	20,000	211,500
1969	Catch	4,500	1,400	5,900
	Escapement	95,300	8,000	103,300
	Total	99,800	9,400	109,200
1970	Catch	10,000	2,400	12,400
	Escapement	58,100	(5,600)	63,700
	Total	68,100	8,000	76,100
1971	Catch	36,200	7,500	43,700
	Escapement	54,100	5,900	60,000
	Total	90,300	13,400	103,700
1972	Catch	57,900	1,500	59,400
	Escapement	65,800	11,200	77,000
	Total	123,700	12,700	136,400
1973	Catch	96,600	6,500	103,100
	Escapement	68,100	(7,500)	75,600
	Total	164,700	(14,000)	178,700
1974	Catch	11,300	3,100	14,400
	Escapement	76,000	(6,100)	82,100
	Total	87,300	9,200	96,500

-Continued-

Table 15. (page 2 of 3)

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1975	Catch	3,400	500	3,900
	Escapement	74,300	17,300	91,600
	Total	77,700	17,800	95,500
1976	Catch	38,100	7,900	46,000
	Escapement	127,700	38,300	166,000
	Total	165,800	46,200	212,000
1977	Catch	20,300	22,600	42,900
	Escapement	381,400	54,300	435,700
	Total	401,700	76,900	478,600
1978	Catch	82,300	48,300	130,600
	Escapement	134,100	29,500	163,600
	Total	216,400	77,800	294,200
1979	Catch	17,800	12,500	30,300
	Escapement	178,000	12,400	190,400
	Total	195,800	24,900	220,700
1980	Catch	282,500	85,000	367,500
	Escapement	364,200	41,100	405,300
	Total	646,700	126,100	772,800
1981	Catch	296,400	59,100	355,500
	Escapement	235,000	29,600	264,600
	Total	531,400	88,700	620,100
1982	Catch	57,500	37,700	95,200
	Escapement	166,400	23,800	190,200
	Total	223,900	61,500	285,400
1983	Catch	154,800	14,900	169,700
	Escapement	173,300	20,200	193,500
	Total	328,100	35,100	363,200
1984	Catch	102,700	79,800	182,500
	Escapement	427,500	33,400	460,900
	Total	530,200	113,200	643,400
1985	Catch	126,600	116,500	243,100
	Escapement	194,700	25,700	220,400
	Total	321,300	142,200	463,500
1986	Catch	69,100	44,400	113,500
	Escapement	142,400	23,300	165,700
	Total	211,500	67,700	279,200
1987	Catch	148,600	64,600	213,200
	Escapement	286,000	55,500	341,500
	Total	434,600	120,100	554,700

-Continued-

Table 15. (page 3 of 3)

Year		Izembek - Moffet Bay	Bechevin, Swanson Lagoon & Urilia Bays	Northwestern District Total
1988	Catch	112,200	66,100	178,300
	Escapement	304,400	51,800	356,200
	Total	416,600	117,900	534,500
1989	Catch	14,500	11,300	25,800
	Escapement	90,600	19,400	110,000
	Total	105,100	30,700	135,800
1990	Catch	24,000	6,600	30,600
	Escapement	92,500	18,400	110,900
	Total	116,500	25,000	141,500
1991	Catch	51,500	11,200	62,700
	Escapement	172,400	49,400	221,800
	Total	223,900	60,600	284,500
1992	Catch	61,700	43,100	104,800
	Escapement	182,200	33,100	215,300
	Total	243,900	76,200	320,100
1993	Catch	24,900	23,500	48,400
	Escapement	172,900	46,100	219,000
	Total	197,800	69,600	267,400

^a Figures in parenthesis are extrapolated estimates. Escapements are indexed totals.

Table 16. North Peninsula coho salmon catches by district and section, 1984-1993.

Section	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	10 Year Average
Dublin Bay	0	0	0	0	0	0	0	0	0	0	0
Urilia Bay	0	0	3,300	7,600	4,800	0	1,300	0	0	3,200	2,000
Swanson Lagoon	12,700	26,200	22,000	8,300	12,300	7,000	4,600	18,900	3,900	300	11,600
Bechevin Bay	400	1,400	0	800	100	1,500	0	100	0	600	500
Izembek-Moffet Bay	0	0	0	2,900	3,000	100	0	0	0	0	600
Northwestern District Total	13,100	27,600	25,300	19,600	20,200	8,600	5,900	19,000	3,900	4,100	14,700
Black Hills	0	0	0	0	0	0	0	0	0	0	0
Caribou Flats	0	0	0	0	0	0	0	0	0	0	0
Nelson Lagoon	113,300	91,000	99,300	83,700	95,400	119,300	79,200	67,400	73,400	24,600	84,700
Herendeen-Moller B.	700	4,900	0	0	0	0	600	200	0	0	600
Bear River	10,600	16,200	11,300	5,000	15,700	14,500	20,100	36,300	22,100	10,200	16,200
Three Hills	3,000	1,400	1,900	2,100	3,300	1,400	1,100	2,500	4,600	1,600	2,300
Ilnik	6,200	6,200	5,400	21,300	35,000	26,000	11,400	5,000	13,000	7,200	13,700
Inner Port Heiden	21,600	15,400	19,300	27,500	27,300	25,900	38,900	37,200	16,700	3,300	23,300
Outer Port Heiden	0	0	1,200	0	8,600	14,300	0	0	0	0	2,400
Cinder River	30,000	13,500	300	12,600	28,500	17,500	35,800	50,600	73,100	13,300	27,500
Northern District Total	185,400	148,600	138,700	152,200	213,800	218,900	187,100	199,200	202,900	60,200	170,700
NORTH PENINSULA TOTAL	198,500	176,200	164,000	171,800	234,000	227,500	193,000	218,200	206,800	64,300	185,400

Table 17. North Peninsula peak and estimated total salmon escapement by species, district, and stream, 1993.

Stream Number	Stream Name/Location	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total
Northwestern District											
311-20.15	Tugumak River		Not	Surveyed							
311-30.06	Divide Creek	0	0	300	600	0	0	0	0	400	1,280
311-30.05	Unnamed		Not	Surveyed							
311-30.07	Whaleback Mountain Creek	0	0	29,400	36,750	0	0	0	0	0	0
311-30.08	Christianson Lagoon		Included	with .07							
311-30.09	Mudhole	0	0	0	0	0	0	0	0	1,400	3,301
311-30.10	Clear Lagoon	0	0	0	0	0	0	0	0	250	536
311-40.01	Emil's River	0	0	50	100	0	0	0	0	400	1,280
311-40.04	North Creek	0	0	0	0	0	0	0	0	850	2,720
311-50.01	Big River	0	0	0	0	0	0	30	84	180	576
311-50.02	Swanson Lagoon	0	0	5,800	7,250	0	0	0	0	3,400	7,697
311-60.01	Mike's Valley	0	0	3	6	0	0	0	0	3,900	7,780
311-60.06	Anderson's	0	0	0	0	0	0	600	773	1,000	1,556
311-60.07	Traders Cove	0	0	0	0	0	0	100	100	7,300	7,300
311-60.12	Warm Springs Bay & .08	0	0	5	10	0	0	0	0	1,600	2,247
311-60.13	Hungry's Creek	0	0	210	420	0	0	0	0	200	640

-Continued-

Table 17. (Page 2 of 8)

Stream Number	Stream Name/Location	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total
312-20.01	Norma Bay	0	0	1,100	2,200	0	0	0	0	1,400	4,480
312-20.02	Mike's Duck Camp	0	0	400	800	0	0	0	0	3,900	13,353
312-20.03	Norma Bay South	0	0	0	0	0	0	0	0	5,100	10,488
312-20.04	Norma Bay South	0	0	0	0	0	0	0	0	1,600	2,287
312-20.52	2nd stream W of Frosty Cr.	0	0	400	800	0	0	0	0	650	1,042
312-20.51	Springs South of Frosty	0	0	200	400	0	0	0	0	2,600	8,320
312-20.05	Frosty Creek	0	0	200	400	0	0	0	0	8,100	23,203
312-20.06	Blue Bill Lake	0	0	4,800	9,600	0	0	0	0	200	640
312-20.13	Outer Marker Lake	0	0	3,200	6,400	0	0	0	0	0	0
312-40.00	Spring fed 2m SW of Joshua Green River		Not	Surveyed							
312-40.01	Joshua Green River	0	0	6,100	12,200	0	0	0	0	74,800	284,333
312-40.02	Moffet Springs Creek	0	0	400	800	0	0	0	0	5,700	20,993
312-40.03	Moffet Creek	0	0	5,500	6,875	0	0	0	0	6,400	22,380
Northwestern District Total		0	0	58,068	85,611	0	0	730	957	131,330	428,431

-Continued-

Table 17. (Page 3 of 8)

Stream Number	Stream Name/Location	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total
Northern District											
313-10.02	North Creek	300	576	6,600	8,250	0	0	0	0	900	1,214
313-10.05	Cathedral River	0	0	250	500	0	0	0	0	0	0
313-10.06	Trader Mt.	0	0	0	0	0	0	0	0	300	960
313-10.09	Amoco Airstrip	Not Surveyed									
313-10.11	Black Hills	700	1,344	0	0	0	0	0	0	0	0
313-10.14	Steelhead	900	1,728	0	0	0	0	0	0	0	0
313-30.01	David's River	700	1,344	3,500	4,375	0	0	0	0	0	0
313-30.01	David's River Lake's			4,950	6,188						
313-30.02	Caribou River	0	0	49,000	98,000	0	0	0	0	2,500	7,333
313-30.03	Nelson River Hoodoo Lake	5,080	9,754	9,000	18,000	14,600	35,040	0	0	0	0
313-30.03	Nelson River Weir	0	607	0	198,183			0	73	0	497
313-30.03	Peterson Creek	Not Surveyed									
313-30.??	Near Coastal Lake	0	0	1,500	3,000	0	0	0	0	0	0
314-20.02	Doe Valley	0	0	0	0	0	0	0	0	1,400	1,867
314-20.03	Buck Valley	0	0	0	0	0	0	0	0	1,800	2,307
314-20.04	Deer Valley	0	0	10	20	0	0	0	0	7,000	22,400
314-20.05	Portage Valley	0	0	0	0	0	0	0	0	1,000	1,407

-Continued-

45

Table 17. (Page 4 of 8)

Stream Number	Stream Name/Location	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total
314-20.06	Grass Valley	0	0	400	500	0	0	17,000	32,111	40,000	111,667
314-20.07	Lawrence Valley	0	0	0	0	0	0	28,000	95,667	35,000	116,667
314-20.08	Mine Harbor	0	0	0	0	0	0	0	0	50	160
314-20.09	Coal Creek	0	0	0	0	0	0	0	0	100	320
314-30.04	Mud Bay	0	0	0	0	0	0	0	0	600	1,920
314-30.05	Mud Bay	0	0	0	0	0	0	0	0	2,200	7,040
314-30.07	Right Head Creek	0	0	0	0	0	0	0	0	2,200	7,040
314-30.09	Right Head Creek	0	0	0	0	0	0	0	0	3,600	11,520
314-30.10	Left Head Creek	0	0	0	0	0	0	0	0	200	640
315-10.01	Frank's Lagoon	0	0	50	100	0	0	0	0	3,300	6,953
315-10.02	King Salmon	800	1,536	500	1,000	0	0	0	0	0	0
315-11.02	Bear River C & E	400	768	10	20	0	0	0	0	0	0
315-11.02	Bear River Weir			0	452,000						
315-12.00	Sandy River and Lake	0	0	46,300	57,875	0	0	0	0	0	0
316-10.01	Lime Creek		Not		Surveyed						
316-10.02	Unnamed		Not		Surveyed						
316-10.04	Three Hills	0	0	300	600	0	0	0	0	0	0

-Continued-

Table 17. (Page 5 of 8)

Stream Number	Stream Name/Location	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total
316-10.05	Ocean River	0	0	23,400	46,800	0	0	0	0	0	0
316-10.06	Willie Creek	0	0	6,000	12,000	0	0	0	0	0	0
316-20.01	Ilnik Estuary & River	0	0	19,600		10,000	24,000	0	0	0	0
316-20.01	Ilnik River Weir			0	70,000						
316-20.04	Unangashak River	0	0	0	0	0	0	0	0	0	0
316-20.06	Unnamed		Not Surveyed								
317-20.02	Charles Creek		Not Surveyed								
317-20.04	Bluff Creek A&B		Not Surveyed								
317-20.04	Highland Creek A		Not Surveyed								
317-20.07	Meshik River A		Not Surveyed								
317-20.07	Braided Creek B		Not Surveyed								
317-20.07	Landlocked Creek C		Not Surveyed								
317-20.07	Bluff Creek D		Not Surveyed								
317-20.07	Blue Violet E		Not Surveyed								
317-20.07	Wolf Creek F		Not Surveyed								

-Continued-

Table 17. (Page 6 of 8)

Stream Number	Stream Name/Location	Species										
		Chinook		Sockeye		Coho		Pink		Chum		
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total	
317-20.07	Shoe Creek		Not	Surveyed								
	H											
317-20.07	Unnamed		Not	Surveyed								
	K											
317-20.07	Unnamed		Not	Surveyed								
	J											
317-20.07	Unnamed		Not	Surveyed								
	M											
317-20.07	Unnamed		Not	Surveyed								
	N											
317-20.07	Plenty Bear Creek		Not	Surveyed								
	O											
317-20.07	Plenty Bear Creek		Not	Surveyed								
	O-A											
317-20.07	Waterfall Creek		Not	Surveyed								
	P											
317-20.07	Rainbow Creek		Not	Surveyed								
	R											
317-20.07	Cub Creek		Not	Surveyed								
	T											
317-20.08	Birthday Creek		Not	Surveyed								
317-20.09	Barabara Creek		Not	Surveyed								
318-10.01	Reindeer Creek		Not	Surveyed								
318-20.04	Mud Creek	0	0	0	0	6,500	15,600	0	0	0	0	
	A&B											
318-20.06	Cinder River		Not	Surveyed								
	A											
318-20.06	Lava Creek		Not	Surveyed								
	D											
318-20.06	High Creek		Not	Surveyed								
	E											

48

-Continued-

Table 17. (Page 7 of 8)

Stream Number	Stream Name/Location	Species										
		Chinook		Sockeye		Coho		Pink		Chum		
		Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total	
318-20.06	Meloy Creek		Not	Surveyed								
	H											
318-20.06	Wiggly Creek		Not	Surveyed								
	J											
318-20.06	Ray Creek		Not	Surveyed								
	K											
318-20.06	L Creek		Not	Surveyed								
	L											
Northern District Total		8,880	17,657	171,370	977,411	31,100	74,640	45,000	127,851	102,150	301,912	
North Peninsula Total		8,880	17,657	229,438	1,063,022	31,100	74,640	45,730	128,808	233,480	730,343	

Notes: Escapement determined from spawner abundance curves derived from aerial escapement surveys under fair or better visibility conditions and an assumed, 7 day average stream life for chum salmon in Swanson Lagoon, and a 15 day average stream life for all other chum and pink salmon. Where peak counts were greater than the calculated escapement, the peak count was expanded by 3.2 for chum salmon, and 2.8 for pink salmon. The expansion factors were determined by using the ratio of peak count to total estimated escapement where ascending, peak count, and descending counts were available.

Chinook estimated total escapement (peak x 1.92), sockeye (peak x 1.25 for Whaleback Mountain Creek, Swanson Lagoon, Moffet Creek, North Creek, David's River, Grass Valley, Mudhole, Clear Lagoon, and Sandy Lake, and peak x 2.0 for other streams), and coho (peak x 2.4).

Chum and pink salmon calculated using a 15 day stream life, where peak counts were greater than the calculated escapement the peak count was expanded by 1.9198 (determined by using the ratio of peak count to total estimated escapement where ascending, peak count, and descending counts were available).

-Continued-

Table 17. (Page 8 of 8)

Chinook estimated total escapement (peak x 1.92), sockeye (peak x 1.25; clear streams and peak x 2.0; other streams), coho (peak x 2.4). Escapement determined from spawner abundance curves derived from aerial escapement surveys under fair or better visibility conditions and as assumed, 7 day average stream life for chum salmon in Swanson Lagoon, and a 15 day average stream life for all other chum and pink salmon. The peak count was used in instances when the peak count exceeded the computed estimate.

A zero indicates no fish were present while a blank indicates fish were present but not counted.

Sockeye escapements were determined by an expansion faactor of 1.25 for Whaleback Mountain Creek, Swanson Lagoon, Moffet Creek, North Creek, David's River, Grass Valley, Sandy Lake, Mudhole, and Clear Lagoon. All other sockeye escapements were determined by an expansion factor of 2.0.

The total estimated salmon escapement does include the weir counts at Nelson River, Bear River, and Ilnik River, however it does not include peak counts for any weirs.

Table 18. Chinook, pink, and chum salmon daily and cumulative escapement counts through the Nelson River weir, 1993.

Date	Daily			Cumulative		
	Chinook	Pink	Chum	Chinook	Pink	Chum
May 28 through June 19	0	0	0	0	0	0
20	1	0	0	1	0	0
21	1	0	0	2	0	0
22	4	0	2	6	0	2
23	0	0	0	6	0	2
24	2	0	0	8	0	2
25	0	0	0	8	0	2
26	6	0	8	14	0	10
27	2	0	0	16	0	10
28	2	0	0	18	0	10
29	7	0	0	25	0	10
30	3	0	0	28	0	10
July 1	3	0	0	31	0	10
2	4	0	0	35	0	10
3	1	0	1	36	0	11
4	7	0	2	43	0	13
5	16	0	21	59	0	34
6	4	0	6	63	0	40
7	7	0	2	70	0	42
8	9	0	0	79	0	42
9	2	4	2	81	4	44
10	9	1	1	90	5	45
11	4	1	3	94	6	48
12	9	3	23	103	9	71
13	3	4	32	106	13	103
14	2	0	27	108	13	130
15	6	0	11	114	13	141
16	3	6	3	117	19	144
17	2	9	7	119	28	151
18	4	7	17	123	35	168
19	12	10	20	135	45	188
20	1	3	25	136	48	213
21	33	8	53	169	56	266
22	68	7	74	237	63	340
23	185	5	74	422	68	414
24	185	5	83	607	73	497
Total	607	73	497	607	73	497
Post Weir Escapement				4693	27	1403
Index Total Escapements				5300	100	1900

Table 19. Chinook, pink, and chum salmon daily and cumulative escapement counts through the Bear River weir, 1993.

Date	Daily			Cumulative		
	Chinook	Pink	Chum	Chinook	Pink	Chum
May 29 through						
June 29	0	0	0	0	0	0
30	1	0	0	1	0	0
July 1	0	0	0	1	0	0
2	0	0	0	1	0	0
3	0	0	0	1	0	0
4	0	0	0	1	0	0
5	0	0	0	1	0	0
6	2	0	0	3	0	0
7	0	1	0	3	1	0
8	0	1	0	3	2	0
9	0	0	0	3	2	0
10	0	0	1	3	2	1
11	1	0	0	4	2	1
12	0	2	0	4	4	1
13	2	3	0	6	7	1
14	1	1	0	7	8	1
15	1	2	0	8	10	1
16	0	0	0	8	10	1
17	1	6	0	9	16	1
18	4	0	0	13	16	1
19	0	4	0	13	20	1
20	0	1	0	13	21	1
21	1	3	0	14	24	1
22	0	0	0	14	24	1
23	3	6	0	17	30	1
24	12	39	0	29	69	1
25	3	9	0	32	78	1
26	0	12	0	32	90	1
27	1	3	0	33	93	1
28	2	1	0	35	94	1
29	0	5	0	35	99	1
30	0	15	0	35	114	1
31	3	19	0	38	133	1
Aug. 1	3	13	2	41	146	3
2	0	9	0	41	155	3
3	0	1	0	41	156	3
4	1	1	1	42	157	4
5	1	2	0	43	159	4
6	2	1	0	45	160	4
7	3	3	2	48	163	6
8	0	4	0	48	167	6
9	2	17	4	50	184	10
10	4	31	1	54	215	11
11	0	14	6	54	229	17
12	0	15	16	54	244	33
13	1	3	4	55	247	37
14	0	6	1	55	253	38
15	2	0	0	57	253	38
16	1	0	1	58	253	39
17	1	4	3	59	257	42
18	0	0	0	59	257	42
19	1	1	2	60	258	44

-Continued-

Table 19. (page 2 of 2)

Date	Daily			Cumulative		
	Chinook	Pink	Chum	Chinook	Pink	Chum
20	4	4	4	64	262	48
21	1	3	4	65	265	52
22	1	9	3	66	274	55
23	2	17	9	68	291	64
24	0	17	8	68	308	72
25	0	7	4	68	315	76
26	0	0	0	68	315	76
	68	315	76	68	315	76

Table 20. Sockeye salmon daily and cumulative escapement counts through the Nelson River weir, 1993.

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
May 28 through											
June 19	0	0	0	0	0	0	0	0	0.0	0.0	0.0
20	1238	50	1288	1238	50	1288	96.1	3.9	0.6	0.0	0.6
21	4393	183	4576	5631	233	5864	96.0	4.0	2.8	0.1	3.0
22	5365	243	5608	10996	476	11472	95.7	4.3	5.5	0.2	5.8
23	3990	150	4140	14986	626	15612	96.4	3.6	7.6	0.3	7.9
24	1986	123	2109	16972	749	17721	94.2	5.8	8.6	0.4	8.9
25	2083	80	2163	19055	829	19884	96.3	3.7	9.6	0.4	10.0
26	10098	356	10454	29153	1185	30338	96.6	3.4	14.7	0.6	15.3
27	4646	216	4862	33799	1401	35200	95.6	4.4	17.1	0.7	17.8
28	5295	300	5595	39094	1701	40795	94.6	5.4	19.7	0.9	20.6
29	7511	469	7980	46605	2170	48775	94.1	5.9	23.5	1.1	24.6
30	7942	736	8678	54547	2906	57453	91.5	8.5	27.5	1.5	29.0
July 1	4098	919	5017	58645	3825	62470	81.7	18.3	29.6	1.9	31.5
2	3185	696	3881	61830	4521	66351	82.1	17.9	31.2	2.3	33.5
3	4760	824	5584	66590	5345	71935	85.2	14.8	33.6	2.7	36.3
4	14742	1880	16622	81332	7225	88557	88.7	11.3	41.0	3.6	44.7
5	15482	1494	16976	96814	8719	105533	91.2	8.8	48.9	4.4	53.3
6	12178	1436	13614	108992	10155	119147	89.5	10.5	55.0	5.1	60.1
7	6489	1376	7865	115481	11531	127012	82.5	17.5	58.3	5.8	64.1
8	6020	1791	7811	121501	13322	134823	77.1	22.9	61.3	6.7	68.0
9	4923	978	5901	126424	14300	140724	83.4	16.6	63.8	7.2	71.0
10	6354	1120	7474	132778	15420	148198	85.0	15.0	67.0	7.8	74.8
11	3369	532	3901	136147	15952	152099	86.4	13.6	68.7	8.0	76.7
12	3602	693	4295	139749	16645	156394	83.9	16.1	70.5	8.4	78.9
13	5430	1277	6707	145179	17922	163101	81.0	19.0	73.3	9.0	82.3
14	3153	605	3758	148332	18527	166859	83.9	16.1	74.8	9.3	84.2
15	3194	839	4033	151526	19366	170892	79.2	20.8	76.5	9.8	86.2
16	2616	863	3479	154142	20229	174371	75.2	24.8	77.8	10.2	88.0
17	2777	1042	3819	156919	21271	178190	72.7	27.3	79.2	10.7	89.9
18	3042	703	3745	159961	21974	181935	81.2	18.8	80.7	11.1	91.8
19	2441	417	2858	162402	22391	184793	85.4	14.6	81.9	11.3	93.2
20	1843	453	2296	164245	22844	187089	80.3	19.7	82.9	11.5	94.4
21	2072	409	2481	166317	23253	189570	83.5	16.5	83.9	11.7	95.7

-Continued-

Table 20. (page 2 of 2)

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
22	2385	503	2888	168702	23756	192458	82.6	17.4	85.1	12.0	97.1
23	2754	663	3417	171456	24419	195875	80.6	19.4	86.5	12.3	98.8
24	1893	415	2308	173349	24834	198183	82.0	18.0	87.5	12.5	100.0
Total	173349	24834	198183	173349	24834	198183	87.5	12.5	87.5	12.5	100.0
Post Weir Escapement			9000								
Index Total Escapements			207183								

Table 21. Sockeye salmon daily and cumulative escapement counts through the Bear River weir, 1993.

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
May											
29	7	0	7	7	0	7	100.0	0.0	0.0	0.0	0.0
30	49	0	49	56	0	56	100.0	0.0	0.0	0.0	0.0
31	113	0	113	169	0	169	100.0	0.0	0.0	0.0	0.0
June 1	219	2	221	388	2	390	99.1	0.9	0.1	0.0	0.1
2	39	0	39	427	2	429	100.0	0.0	0.1	0.0	0.1
3	89	6	95	516	8	524	93.7	6.3	0.1	0.0	0.1
4	269	3	272	785	11	796	98.9	1.1	0.2	0.0	0.2
5	561	13	574	1346	24	1370	97.7	2.3	0.4	0.0	0.4
6	259	2	261	1605	26	1631	99.2	0.8	0.4	0.0	0.5
7	1809	13	1822	3414	39	3453	99.3	0.7	0.9	0.0	1.0
8	1336	3	1339	4750	42	4792	99.8	0.2	1.3	0.0	1.3
9	742	5	747	5492	47	5539	99.3	0.7	1.5	0.0	1.5
10	874	22	896	6366	69	6435	97.5	2.5	1.8	0.0	1.8
11	1697	20	1717	8063	89	8152	98.8	1.2	2.2	0.0	2.3
12	5187	45	5232	13250	134	13384	99.1	0.9	3.7	0.0	3.7
13	4857	28	4885	18107	162	18269	99.4	0.6	5.0	0.0	5.1
14	7482	14	7496	25589	176	25765	99.8	0.2	7.1	0.0	7.1
15	5286	15	5301	30875	191	31066	99.7	0.3	8.5	0.1	8.6
16	3174	19	3193	34049	210	34259	99.4	0.6	9.4	0.1	9.5
17	3181	10	3191	37230	220	37450	99.7	0.3	10.3	0.1	10.4
18	2910	8	2918	40140	228	40368	99.7	0.3	11.1	0.1	11.2
19	1202	6	1208	41342	234	41576	99.5	0.5	11.4	0.1	11.5
20	212	2	214	41554	236	41790	99.1	0.9	11.5	0.1	11.6
21	311	3	314	41865	239	42104	99.0	1.0	11.6	0.1	11.6
22	28487	75	28562	70352	314	70666	99.7	0.3	19.5	0.1	19.6
23	10658	42	10700	81010	356	81366	99.6	0.4	22.4	0.1	22.5
24	2436	25	2461	83446	381	83827	99.0	1.0	23.1	0.1	23.2
25	2165	20	2185	85611	401	86012	99.1	0.9	23.7	0.1	23.8
26	2015	38	2053	87626	439	88065	98.1	1.9	24.2	0.1	24.4
27	2838	20	2858	90464	459	90923	99.3	0.7	25.0	0.1	25.2
28	807	11	818	91271	470	91741	98.7	1.3	25.3	0.1	25.4
29	2163	33	2196	93434	503	93937	98.5	1.5	25.9	0.1	26.0
30	3941	154	4095	97375	657	98032	96.2	3.8	26.9	0.2	27.1

-Continued-

Table 21. (page 2 of 3)

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
July 1	1991	74	2065	99366	731	100097	96.4	3.6	27.5	0.2	27.7
2	5551	166	5717	104917	897	105814	97.1	2.9	29.0	0.2	29.3
3	5678	251	5929	110595	1148	111743	95.8	4.2	30.6	0.3	30.9
4	11629	260	11889	122224	1408	123632	97.8	2.2	33.8	0.4	34.2
5	33156	601	33757	155380	2009	157389	98.2	1.8	43.0	0.6	43.5
6	8718	252	8970	164098	2261	166359	97.2	2.8	45.4	0.6	46.0
7	5801	283	6084	169899	2544	172443	95.3	4.7	47.0	0.7	47.7
8	4502	226	4728	174401	2770	177171	95.2	4.8	48.3	0.8	49.0
9	3270	155	3425	177671	2925	180596	95.5	4.5	49.2	0.8	50.0
10	5656	262	5918	183327	3187	186514	95.6	4.4	50.7	0.9	51.6
11	6888	333	7221	190215	3520	193735	95.4	4.6	52.6	1.0	53.6
12	11208	331	11539	201423	3851	205274	97.1	2.9	55.7	1.1	56.8
13	7498	318	7816	208921	4169	213090	95.9	4.1	57.8	1.2	59.0
14	2464	177	2641	211385	4346	215731	93.3	6.7	58.5	1.2	59.7
15	2210	217	2427	213595	4563	218158	91.1	8.9	59.1	1.3	60.4
16	4333	600	4933	217928	5163	223091	87.8	12.2	60.3	1.4	61.7
17	4703	582	5285	222631	5745	228376	89.0	11.0	61.6	1.6	63.2
18	5792	899	6691	228423	6644	235067	86.6	13.4	63.2	1.8	65.0
19	3485	382	3867	231908	7026	238934	90.1	9.9	64.2	1.9	66.1
20	762	67	829	232670	7093	239763	91.9	8.1	64.4	2.0	66.3
21	552	40	592	233222	7133	240355	93.2	6.8	64.5	2.0	66.5
22	495	35	530	233717	7168	240885	93.4	6.6	64.7	2.0	66.6
23	714	106	820	234431	7274	241705	87.1	12.9	64.9	2.0	66.9
24	1506	312	1818	235937	7586	243523	82.8	17.2	65.3	2.1	67.4
25	1521	252	1773	237458	7838	245296	85.8	14.2	65.7	2.2	67.9
26	879	132	1011	238337	7970	246307	86.9	13.1	65.9	2.2	68.1
27	788	350	1138	239125	8320	247445	69.2	30.8	66.2	2.3	68.5
28	345	119	464	239470	8439	247909	74.4	25.6	66.3	2.3	68.6
29	493	346	839	239963	8785	248748	58.8	41.2	66.4	2.4	68.8
30	1213	585	1798	241176	9370	250546	67.5	32.5	66.7	2.6	69.3
31	2123	1343	3466	243299	10713	254012	61.3	38.7	67.3	3.0	70.3
Aug. 1	2033	2348	4381	245332	13061	258393	46.4	53.6	67.9	3.6	71.5
2	1732	2437	4169	247064	15498	262562	41.5	58.5	68.4	4.3	72.6
3	878	875	1753	247942	16373	264315	50.1	49.9	68.6	4.5	73.1

-Continued-

Table 21. (page 3 of 3)

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
4	312	320	632	248254	16693	264947	49.4	50.6	68.7	4.6	73.3
5	883	771	1654	249137	17464	266601	53.4	46.6	68.9	4.8	73.8
6	222	261	483	249359	17725	267084	46.0	54.0	69.0	4.9	73.9
7	701	744	1445	250060	18469	268529	48.5	51.5	69.2	5.1	74.3
8	1077	1159	2236	251137	19628	270765	48.2	51.8	69.5	5.4	74.9
9	2244	1360	3604	253381	20988	274369	62.3	37.7	70.1	5.8	75.9
10	3658	1674	5332	257039	22662	279701	68.6	31.4	71.1	6.3	77.4
11	5780	1525	7305	262819	24187	287006	79.1	20.9	72.7	6.7	79.4
12	23139	2629	25768	285958	26816	312774	89.8	10.2	79.1	7.4	86.5
13	11197	1055	12252	297155	27871	325026	91.4	8.6	82.2	7.7	89.9
14	1374	645	2019	298529	28516	327045	68.1	31.9	82.6	7.9	90.5
15	487	233	720	299016	28749	327765	67.6	32.4	82.7	8.0	90.7
16	228	112	340	299244	28861	328105	67.1	32.9	82.8	8.0	90.8
17	2181	434	2615	301425	29295	330720	83.4	16.6	83.4	8.1	91.5
18	33	4	37	301458	29299	330757	89.2	10.8	83.4	8.1	91.5
19	446	64	510	301904	29363	331267	87.5	12.5	83.5	8.1	91.7
20	1767	305	2072	303671	29668	333339	85.3	14.7	84.0	8.2	92.2
21	3627	682	4309	307298	30350	337648	84.2	15.8	85.0	8.4	93.4
22	7101	959	8060	314399	31309	345708	88.1	11.9	87.0	8.7	95.6
23	5778	878	6656	320177	32187	352364	86.8	13.2	88.6	8.9	97.5
24	3105	553	3658	323282	32740	356022	84.9	15.1	89.4	9.1	98.5
25	4269	711	4980	327551	33451	361002	85.7	14.3	90.6	9.3	99.9
26	404	36	440	327955	33487	361442	91.8	8.2	90.7	9.3	100.0
Post Weir	78845	11713	90558	406800	45200	452000	90.0	10.0	90.0	10.0	100.0
Total	406,800	45200	452000	406800	45200	452000	90.0	10.0	90.0	10.0	100.0

Table 22. Sockeye salmon daily and cumulative escapement counts through the Ilnik River weir , 1993.

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
May											
27	5	0	5	5	0	5	100.0	0.0	0.0	0.0	0.0
28	115	0	115	120	0	120	100.0	0.0	0.2	0.0	0.2
29	126	0	126	246	0	246	100.0	0.0	0.4	0.0	0.4
30	152	0	152	398	0	398	100.0	0.0	0.6	0.0	0.6
31	17	0	17	415	0	415	100.0	0.0	0.7	0.0	0.7
June 1	149	0	149	564	0	564	100.0	0.0	0.9	0.0	0.9
2	52	0	52	616	0	616	100.0	0.0	1.0	0.0	1.0
3	179	2	181	795	2	797	98.9	1.1	1.3	0.0	1.3
4	144	4	148	939	6	945	97.3	2.7	1.5	0.0	1.5
5 Weir	298	2	300	1237	8	1245	99.3	0.7	2.0	0.0	2.0
6 Washed	298	2	300	1535	10	1545	99.3	0.7	2.5	0.0	2.5
7 Out	298	2	300	1833	12	1845	99.3	0.7	2.9	0.0	3.0
8	298	8	306	2131	20	2151	97.4	2.6	3.4	0.0	3.4
9	423	7	430	2554	27	2581	98.4	1.6	4.1	0.0	4.1
10	814	19	833	3368	46	3414	97.7	2.3	5.4	0.1	5.5
11	256	5	261	3624	51	3675	98.1	1.9	5.8	0.1	5.9
12	531	5	536	4155	56	4211	99.1	0.9	6.6	0.1	6.7
13	1251	69	1320	5406	125	5531	94.8	5.2	8.7	0.2	8.9
14	723	48	771	6129	173	6302	93.8	6.2	9.8	0.3	10.1
15	1415	44	1459	7544	217	7761	97.0	3.0	12.1	0.3	12.4
16	1982	61	2043	9526	278	9804	97.0	3.0	15.2	0.4	15.7
17	1963	61	2024	11489	339	11828	97.0	3.0	18.4	0.5	18.9
18	4037	125	4162	15526	464	15990	97.0	3.0	24.8	0.7	25.6
19	3984	123	4107	19510	587	20097	97.0	3.0	31.2	0.9	32.2
20	3930	122	4052	23440	709	24149	97.0	3.0	37.5	1.1	38.6
21	1861	58	1919	25301	767	26068	97.0	3.0	40.5	1.2	41.7
22	1631	50	1681	26932	817	27749	97.0	3.0	43.1	1.3	44.4
23	4554	53	4607	31486	870	32356	98.8	1.2	50.4	1.4	51.8
24	3512	64	3576	34998	934	35932	98.2	1.8	56.0	1.5	57.5
25	3426	102	3528	38424	1036	39460	97.1	2.9	61.5	1.7	63.1
26	3449	103	3552	41873	1139	43012	97.1	2.9	67.0	1.8	68.8
27	1529	74	1603	43402	1213	44615	95.4	4.6	69.5	1.9	71.4
28	1438	37	1475	44840	1250	46090	97.5	2.5	71.8	2.0	73.8
29	2833	105	2938	47673	1355	49028	96.4	3.6	76.3	2.2	78.5
30	1872	113	1985	49545	1468	51013	94.3	5.7	79.3	2.3	81.6
July 1	1711	58	1769	51256	1526	52782	96.7	3.3	82.0	2.4	84.5
2	375	55	430	51631	1581	53212	87.2	12.8	82.6	2.5	85.2

-Continued-

Table 22. (page 2 of 2)

Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
3	656	113	769	52287	1694	53981	85.3	14.7	83.7	2.7	86.4
4	822	151	973	53109	1845	54954	84.5	15.5	85.0	3.0	87.9
5	609	115	724	53718	1960	55678	84.1	15.9	86.0	3.1	89.1
6	375	134	509	54093	2094	56187	73.7	26.3	86.6	3.4	89.9
7	608	295	903	54701	2389	57090	67.3	32.7	87.5	3.8	91.4
8	211	197	408	54912	2586	57498	51.7	48.3	87.9	4.1	92.0
9	152	150	302	55064	2736	57800	50.3	49.7	88.1	4.4	92.5
10	122	142	264	55186	2878	58064	46.2	53.8	88.3	4.6	92.9
11	263	432	695	55449	3310	58759	37.8	62.2	88.7	5.3	94.0
12	190	571	761	55639	3881	59520	25.0	75.0	89.0	6.2	95.2
13	205	926	1131	55844	4807	60651	18.1	81.9	89.4	7.7	97.1
14	112	524	636	55956	5331	61287	17.6	82.4	89.5	8.5	98.1
15	264	513	777	56220	5844	62064	34.0	66.0	90.0	9.4	99.3
16	121	307	428	56341	6151	62492	28.3	71.7	90.2	9.8	100.0
Pre and Post Weir	6382	1126	7508	62723	7277	70000					
Total	62723	7277	70000	62723	7277	70000	89.6	10.4	89.6	10.4	100.0

Table 23. Salmon escapement survey counts in the North Peninsula, 1993.

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
NORTHWESTERN DISTRICT										
311-20.15	Tugumak River	Not	Surveyed							
311-30.06	Divide Creek	30-Jul	Good	0	300	0	0	400	Shaul	1-2,000 Dolly Varden all schooled in lower 1-2 miles.
311-30.05	Unnamed	Not	Surveyed							
311-30.07	Whaleback Mountain Creek	13-Jun	Good	0	700	0	0	0	Shaul	Survey of lagoon and channel. 100 in upper end of channel, balance in lower 500 yards. Thousands of dead eulachon.
		21-Jun	Good	0	15,000	0	0	0	Berceli	6,000 sockeye in outlet channel, balance in lagoon.
		02-Jul	Poor	0	0	0	0	0	Shaul	Conditions too poor for survey.
		06-Jul	Fair	0	8,600	0	0	0	Shaul	Conditions very poor in lake (algal bloom), excellent in balance of system. 2,500 in lake, 500 in creek, 5,000 in channel above markers and 600 below markers. Could have been many more in lake.
		14-Jul	Good	0	12,300	0	0	0	Shaul	Survey of creek and outlet channel. 3,600 in the creek, 7,000 at the mouth of the creek, 1,700 in the channel below the creek mouth. Could not see in lake due to algal bloom.
311-30.08	Christianson Lagoon	30-Jul	Good	0	900	0	0	0	Shaul	1,000 in lagoon, 9,300 in outlet channel. 5,100 spawning and 1,100 schooled in west fork. Good escapement.
										Another 100 in east side of lagoon, maybe more (algal bloom). Several hundred Dolly Varden.
311-30.09	Mudhole	06-Jul	Excellent	0	0	0	0	450	Shaul	2,000 chums on flats.
		14-Jul	Poor	0	0	0	0	500	Shaul	Too dark for survey of Peterson Lagoon.
		30-Jul	Good	0	0	0	0	1,400	Shaul	Additional 3,200 chums along west side of lagoon, plus 900 chums in the outlet channel.
311-30.10	Clear Lagoon	06-Jul	Excellent	0	0	0	0	40	Shaul	300 chums in lagoon.
		14-Jul	Fair	0	0	0	0	150	Shaul	Too dark to see in Peterson Lagoon.
		30-Jul	Good	0	0	0	0	250	Shaul	1,500 sockeye, and 2,100 chums in eastside of lagoon plus 900 chums in outlet channel (also noted in 30.09).
311-40.01	Emil's River	30-Jul	Good	0	50	0	0	400	Shaul	6,000 Dolly Varden.

-Continued-

Table 23. (page 2 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
311-40.04	North Creek	30-Jul	Good	0	0	0	0	850	Shaul	
311-50.01	Big River	28-Aug	Good	0	0	0	30	180	Shaul	Surveyed spawning tributary.
311-50.02	Swanson Lagoon	06-Jul	Good	0	0	0	0	1,300	Shaul	Additional 300 salmon in outlet channel. No boats.
		14-Jul	Poor	0	0	0	0	0	Shaul	Survey of creek. 1,000 fish (50% chum & 50% Dolly Varden). Poor light.
		22-Jul	Poor	0	500	0	0	600	Shaul	Survey of creek. 200 chums spawning. Conditions too poor for survey of lagoon and outlet channel.
		30-Jul	Poor	0	800	0	0	1,400	Shaul	Survey of creek. Lagoon and outlet too choppy for count but no sign of large fish numbers. 500 sockeye and 1,100 chums on spawning grounds.
		09-Aug	Good	0	300	0	0	3,400	Shaul	Survey of creek. Additional 1,500 in outlet channel and 1,000 plus sockeye in lagoon.
		28-Aug	Poor	0	3,000	0	0	200	Shaul	Chums and 400 sockeye in creek. 900 sockeye spawning in lagoon and 1,700 schooled in lagoon. Poor light; count low.
		07-Sep	Good	0	5,800	200	0	0	Shaul	Survey of lagoon and lower mile of creek. 1,300 sockeye spawning in lagoon, most schooled above markers. Cherokee survey.
		01-Oct	Good	0	100	600	0	0	Shaul	Sockeye spawning in lagoon. 500 coho in lagoon, 100 in creek.
311-60.01	Mike's Valley	06-Jul	Good	0	0	0	0	600	Shaul	100 chums at mouth; all in lower mile.
		14-Jul	Good	0	0	0	0	900	Shaul	2 mile survey.
		22-Jul	Fair	0	0	0	0	500	Shaul	2 mile survey. Water level high but definitely no large concentrations of salmon.
		30-Jul	Good	0	0	0	0	3,900	Shaul	200 chums at mouth. 2,100 in lower 2 miles, rest in upper valley; most spawning.
		09-Aug	Good	0	0	0	0	1,800	Shaul	3 mile survey. 400 chums at mouth.
311-60.06	Anderson's	28-Aug	Good	0	3	0	0	2,200	Shaul	200 chums at mouth. 600 in upper valley.
		07-Sep	Good	0	0	0	600	400	Shaul	200 chums at mouth. Poor light.

-Continued-

Table 23. (page 3 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
311-60.07 & .08	Traders Cove	10-Aug	Excellent	0	0	0	100	0	Shaul	100 chums on flats; plus 200 chums in channel.
		22-Aug	Good	0	0	0	0	800	Shaul	5,000 chums at mouth; plus 2,000 chums in channel.
		28-Aug	Good	0	0	0	0	1,100	Shaul	300 chums at mouth. Additional 5,000 chums in channel. At least 1,000 dead on flats, probably stranded during high SE winds.
		07-Sep	Good	0	0	0	0	7,300	Shaul	Additional 300 chums on the flats, and another 5,000 in channel.
311-60.12	Warm Springs Bay	10-Aug	Excellent	0	0	0	0	200	Shaul	Nothing on flats.
		22-Aug	Good	0	5	0	0	150	Shaul	Additional 900 chums flats.
		28-Aug	Good	0	0	0	0	600	Shaul	Additional 3,000 chums on flats.
		07-Sep	Good	0	0	0	0	1,600	Shaul	Additional 5,000 chums on flats.
311-60.13	Hungry's Creek	22-Aug	Good	0	210	0	0	200	Shaul	
312-20.01	Norma Bay	20-Aug	Good	0	0	0	0	1,400	Berceli	400 salmon at mouth.
		30-Aug	Good	0	1,100	0	0	100	Shaul	200 chums at mouth, not sure of species.
312-20.02	Mike's Duck Camp	22-Jul	Good	0	0	0	0	1,300	Shaul	2 mile survey. 200 chums at mouth.
		30-Jul	Fair	0	0	0	0	1,700	Shaul	Flats choppy.
		09-Aug	Good	0	0	0	0	1,600	Shaul	500 chums on flats.
		20-Aug	Good	0	0	0	0	3,200	Berceli	200 chums at mouth. Good show in lower end.
		30-Aug	Good	0	400	0	0	3,900	Shaul	3,000 chums at mouth.
312-20.03	Norma Bay South	22-Jul	Good	0	0	0	0	200	Shaul	200 chums at mouth.
		30-Jul	Good	0	0	0	0	700	Shaul	Flats choppy; tide high. Visibility good in creek.
		09-Aug	Good	0	0	0	0	1,200	Shaul	8,000 chums on flats.
		20-Aug	Good	0	0	0	0	3,200	Berceli	Good show in lower end.
		30-Aug	Good	0	0	0	0	5,100	Shaul	4,500 chums at mouth.
312-20.04	Norma Bay South	09-Aug	Good	0	0	0	0	300	Shaul	400 chums on flats.
		20-Aug	Good	0	0	0	0	500	Berceli	100 chums at mouth.
		30-Aug	Good	0	0	0	0	1,600	Shaul	3,000 chums at mouth.
312-20.52	2nd stream W of Frosty Cr.	20-Aug	Good	0	0	0	0	650	Berceli	
		30-Aug	Good	0	400	0	0	600	Shaul	2,000 chums at mouth.
312-20.51	Springs South of Frosty	30-Aug	Good	0	200	0	0	2,600	Shaul	400 chums at mouth.
312-20.05	Frosty Creek	06-Jul	Good	0	0	0	0	750	Shaul	300 chums at mouth.
		14-Jul	Good	0	0	0	0	1,600	Shaul	
		22-Jul	Good	0	0	0	0	8,100	Shaul	Looks good for this date.

-Continued-

Table 23. (page 4 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
		30-Jul	Good	0	0	0	0	3,800	Shaul	
		09-Aug	Good	0	0	0	0	6,800	Shaul	500 chums at mouth.
		20-Aug	Good	0	0	0	0	7,900	Berceli	Plus 1,000 carcasses.
		30-Aug	Good	0	200	0	0	6,100	Shaul	3,000 chums at mouth.
312-20.06	Blue Bill Lake	29-Aug	Good	0	500	0	0	0	Berceli	
		03-Sep	Good	0	3,200	0	0	200	Shaul	Only 100 sockeye were in Little Bluebill Lake.
		17-Sep	Excellent	0	4,300	0	0	0	Shaul	600 were in Little Bluebill Lake.
		01-Oct	Good	0	4,800	0	0	0	Shaul	700 were in Little Bluebill Lake and 100 were in the small lake south of main lake.
312-20.13	Outer Marker Lake	29-Aug	Good	0	190	0	0	0	Berceli	20 sockeye in lower lake (which had algal bloom).
		17-Sep	Good	0	3,200	0	0	0	Shaul	2,200 sockeye in lower lake, 1,000 in upper. Most sign of chums below lakes.
		01-Oct	Good	0	2,100	0	0	0	Shaul	1,500 in lower lake; 600 sockeye in upper lake.
312-40.00	Spring fed 2m SW of Joshua Green River	Not	Surveyed							
312-40.01	Joshua Green River	06-Jul	Excellent	0	6,000	0	0	14,400	Shaul	Survey of right hand, and below forks. 8,300 chums below forks, 2,200 chums above lake.
		16-Jul	Good	0	6,100	0	0	9,800	Shaul	Survey of right hand. Water too high below forks; poor to fair visibility to lake. Excellent visibility above lake. 1,700 sockeye and 9,000 chums above lake.
		29-Jul	Fair	0	9,300	0	0	5,500	Shaul	Survey of right hand. Only partial survey due to high, murky water; first two tributaries and lake down to forks.
		30-Aug	Good	25	5,000	0	0	74,800	Shaul	1,000 sockeye spawning in lake, 4,800 chums below the forks, 17,000 chums in right and 53,000 in left hand.
312-40.02	Moffet Springs Creek	14-Jul	Good	0	0	0	0	1,100	Shaul	
		23-Jul	Good	0	0	0	0	2,000	Shaul	
		29-Jul	Good	0	0	0	0	2,400	Shaul	
		09-Aug	Good	0	300	0	0	3,200	Shaul	
		20-Aug	Poor	0	0	0	0	1,600	Berceli	Too windy at lower end to see fish.
		30-Aug	Good	0	400	0	0	5,700	Shaul	sockeye and 1,900 chums spawning.

-Continued-

Table 23. (page 5 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
312-40.03	Moffet Creek	14-Jul	Good	0	3,200	0	0	500	Shaul	Nearly all below forks. 500 in left fork, 3,100 in right, and 1,000 below. Visibility poor below forks; good above. Survey of right fork and below. Poor light and high water in lower end. Sockeye spawning; chums schooled close to spawning grounds. Survey of south fork. Poor visibility at lower end; windy and choppy.
		23-Jul	Fair	0	5,500	0	0	0	Shaul	
		29-Jul	Poor	0	2,400	0	0	2,000	Shaul	
		09-Aug	Good	0	3,400	0	0	2,600	Shaul	
		20-Aug	Poor	0	1,600	0	0	2,400	Berceli	
		30-Aug	Good	0	1,000	0	0	6,400	Shaul	
NORTHERN DISTRICT										
313-10.02	North Creek	19-Jun	Poor	0	0	0	0	0	Berceli	Marginal conditions; no fish. No fish. 12 seals off mouth. Most fish in lower end near mouth. Too murky except at mouth of tributary; count low. 850 sockeye in lake C2, balance in C1. 150 carcasses. Includes a substantial number of carcasses; 2,300 were in B lake. 300 in B lake, 1,600 in upper C lake, and 1,200 in mid C lake.
		23-Jun	Fair	0	0	0	0	0	Shaul	
		07-Jul	Good	300	0	0	0	0	Berceli	
		14-Jul	Poor	300	0	0	0	0	Shaul	
		29-Aug	Good	120	2,850	0	0	240	Berceli	
		03-Sep	Good	0	6,600	0	0	900	Shaul	
		23-Sep	Good	0	3,100	0	0	Shaul		
313-10.05	Cathedral River	29-Aug	Good	0	250	0	0	0	Berceli	Survey of lake only.
		23-Sep	Good	0	200	0	0	0	Shaul	Survey of lake only.
313-10.06	Trader Mt.	03-Sep	Good	0	0	0	0	300	Shaul	Survey of east clear tributary only.
313-10.09	Amoco Airstrip	Not	Surveyed							
313-10.11	Black Hills	19-Jun	Fair	0	0	0	0	0	Berceli	Marginal conditions; no fish. Looks like they are just entering the river.
		23-Jun	Good	50	0	0	0	0	Shaul	
		07-Jul	Good	400	0	0	0	0	Berceli	
		14-Jul	Good	700	0	0	0	0	Shaul	
313-10.14	Steelhead	19-Jun	Fair	0	0	0	0	0	Berceli	Marginal conditions; no fish. Good survey conditions; no fish. Several groups in lower end to mouth of river.
		23-Jun	Good	0	0	0	0	0	Shaul	
		07-Jul	Good	700	0	0	0	0	Berceli	
		14-Jul	Good	900	0	0	0	0	Shaul	

-Continued-

Table 23. (page 6 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a, b}
				Chinook	Sockeye	Coho	Pink	Chum		
313-30.01	David's River	19-Jun	Good	1,000	5,000	0	0	0	Berceli	Surveyed above Maxie's house. Fish schooled up in pools difficult to ID, but good show of kings.
		07-Jul	Poor	0	1,700	0	0	0	Berceli	Poor conditions; could not differentiate species.
		16-Jul	Good	700	3,500	0	0	0	Shaul	
		03-Sep	Good	0	400	0	0	0	Shaul	Survey of upper most large lake. 75% were carcasses.
		23-Sep	Good	0	4,550	0	0	0	Shaul	2,500 in Big Fish Lake; 1,200 in Whitefish Lake.
313-30.02	Caribou River	23-Jun	Good	0	14,000	0	0	0	Shaul	Surveyed lake approximately 5 mile above David's River. Apparently a milling area before moving upstream. Several jumpers.
		07-Jul	Good	0	50	0	0	0	Berceli	Surveyed very upper sections only. No fish in upper tributaries but 50 in a ball at Divide Lake.
		14-Jul	Good	0	1,050	0	0	0	Shaul	Surveyed Trader Mountain tributary and Divide Lake. 50 in Divide Lake, the rest in Trader Mountain tributary.
		16-Jul	Good	0	49,000	0	0	0	Shaul	Surveyed main stem below Trader Mountain tributary. Unusually clear; fish spawning for about 10 miles until bottom became muddy.
		29-Aug	Good	0	0	0	0	2,500	Berceli	Surveyed clear water tributary by Trader Mountain.
313-30.03	Nelson River Hoodoo Lake ^c	23-Jun	Good	2,100	8,000	0	0	0	Shaul	Surveyed from forks to weir. Excellent visibility in upper portion of river; choppy below.
		25-Jun	Good	2,500	16,500	0	0	0	Berceli	Surveyed from forks to weir. Good visibility throughout; well distributed.
		23-Jul	Good	5,080	7,000	0	0	200	Shaul	Surveyed from forks to weir; Peterson Creek. 80 kings in Peterson Creek. Counted only colored up sockeye, probably another 2,000 fresh. Excellent king escapement. King salmon weir count through July 22 was 238.
		29-Aug	Poor	0	1,000	200	0	1,900	Berceli	Surveyed from lake to Caribou, poor light throughout. No schools of coho off Peterson Creek.
		03-Sep	Good	0	0	5,500	0	0	Shaul	Surveyed Sapsuk River. Good conditions.
	08-Sep	Good	0	0	7,000	0	0	Shaul	Surveyed Sapsuk River. Rough estimate; high water. Cherokee survey.	

-Continued-

Table 23. (page 7 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
		17-Sep	Good	0	0	14,600	0	0	Shaul	Surveyed Sapsuk River. Fish were concentrated from 1 mile above weir to 1/2 mile above Left Creek; plus 300 in lake outlet.
313-30.03	Peterson Creek									Included with Nelson River.
313-30.??	Near	23-Sep	Good	0	1,500	0	0	0	Shaul	500 in Drillhole Lake, 1,000 in lake SW of Coastal Coastal Lake.
314-20.02	Doe Valley	01-Aug 21-Aug	Good Good	0 0	0 0	0 0	0 0	0 1,400	Murphy Murphy	Zero fish.
314-20.03	Buck Valley	02-Aug 21-Aug	Good Poor	0 0	0 0	0 0	0 0	1,800 400	Murphy Murphy	
314-20.04	Deer Valley	21-Jul 01-Aug 21-Aug	Poor Good Poor	0 0 0	0 10 0	0 0 0	0 0 0	0 7000 1900	Murphy Murphy Murphy	Too murky for survey. All fish in side slough, main channel too murky.
314-20.05	Portage Valley	02-Aug 21-Aug	Good Good	0 0	0 0	0 0	0 0	100 1,000	Murphy Murphy	All fish in lower river.
314-20.06	Grass Valley	21-Jul 01-Aug 21-Aug	Poor Good Good	0 0 0	0 400 0	0 0 0	0 5,000 17,000	0 25,000 40,000	Murphy Murphy Murphy	Zero fish. Too murky for survey. 5,000 chums at entrance in bay. Plus 3,000 chum carcasses.
314-20.07	Lawrence Valley	21-Jul 01-Aug 21-Aug	Poor Good Good	0 0 0	0 0 0	0 0 0	0 25,000 28,000	0 30,000 35,000	Murphy Murphy Murphy	Zero fish. Too murky for survey. Plus 2,000 chum carcasses.
314-20.08	Mine Harbor	21-Aug	Good	0	0	0	0	50	Murphy	
314-20.09	Coal Creek	21-Jul	Good	0	0	0	0	100	Murphy	
314-30.04	Mud Bay	21-Aug	Good	0	0	0	0	600	Murphy	
314-30.05	Mud Bay	21-Aug	Good	0	0	0	0	2,200	Murphy	
314-30.07	Right Head Creek	21-Aug	Good	0	0	0	0	2,200	Murphy	
314-30.09	Right Head Creek	21-Aug	Good	0	0	0	0	3,600	Murphy	Most in slough.
314-30.10	Left Head Creek	21-Aug	Good	0	0	0	0	200	Murphy	
315-10.01	Frank's Lagoon	25-Jun	Good	0	0	0	0	0	Murphy	Nothing. Not flowing into ocean, was earlier in spring.

-Continued-

Table 23. (page 8 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
		10-Jul	Good	0	0	0	0	0	Murphy	Nothing. However, now flowing into ocean.
		01-Aug	Good	0	0	0	0	3,300	Murphy	Most in upper stream.
		21-Aug	Good	0	50	0	0	2,000	Murphy	Plus 300 chum carcasses.
315-10.02	King Salmon	10-Jul	Fair	100	0	0	0	0	Murphy	Most upstream 2-3 miles of cabin.
		01-Aug	Excellent	800	500	0	0	0	Murphy	Great conditions.
315-11.02	Bear River C & E ^d	26-Jun	Poor	0	0	0	0	0	Murphy	Survey of Bear River. Too murky to see.
		10-Jul	Excellent	400	10	0	0	0	Murphy	Excellent survey of Ridgerunner Creek only.
315-12.00	Sandy River and Lake	16-Jun	Fair	0	500	0	0	0	Murphy	Survey of lagoon and lake to ADF&G cabin.
		23-Jun	Fair	0	100	0	0	0	Murphy	Survey of lagoon and lake. All in lake.
		30-Jun	Fair	0	9,000	0	0	0	Murphy	Survey of lagoon and lake. All in lake. 5,000 sockeye staging to enter Upper Sandy; some fish colored.
		10-Jul	Excellent	0	46,300	0	0	0	Murphy	Survey of lagoon, lake, and W. Sandy. 45,000 in lake (most colored up), 300 in lagoon, and 1,000 in upper tributary.
		01-Aug	Good	0	45,200	0	0	0	Murphy	200 in lake, 17,000 in 1st creek west of Upper Sandy, 19,000 in 2nd tributary, and 8,000 in upper tributary.
		16-Aug	Good	0	3,000	0	0	100	Murphy	3 mile survey.
316-10.01	Lime Creek	Not	Surveyed							
316-10.02	Unnamed	Not	Surveyed							
316-10.04	Three Hills	17-Jul	Good	0	300	0	0	0	Murphy	Survey of lake only.
316-10.05	Ocean River	17-Jul	Excellent	0	23,400	0	0	0	Murphy	23,000 sockeye in Ocean River, most in Finger Lake, but lots of fish in route in lower river. 400 sockeye in Wildman Lake. 50 carcasses.
		07-Sep	Poor	0	0	0	0	0	Murphy	Poor visibility; too murky.
316-10.06	Willie Creek	17-Jul	Good	0	6,000	0	0	0	Murphy	All at headwaters.
		07-Sep	Poor	0	0	0	0	0	Murphy	Murky.
316-20.01	Ilnik Estuary & River ^e	17-Jul	Excellent	0	19,600	0	0	0	Murphy	15,100 in left hand of Ilnik, 200 right hand 1,800 below forks, 2,500 entrance to C creek. No carcasses.
		07-Sep	Poor	0	0	300	0	0	Murphy	Fish upriver of village. 10 sportfishmen.
		17-Sep	Poor	0	0	10,000	0	0	Shaul	Poor light and windy. Could see some larger schools in lower end of lake, but not much else.
316-20.04	Unangashak River	07-Sep	Poor	0	0	0	0	0	Murphy	Murky.

-Continued-

Table 23. (page 9 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a,b}
				Chinook	Sockeye	Coho	Pink	Chum		
316-20.06	Unnamed	Not	Surveyed							
317-20.02	Charles Creek	Not	Surveyed							
317-20.04A&	Bluff Creek	Not	Surveyed							
317-20.06A	Highland Creek	Not	Surveyed							
317-20.07A	Meshik River	17-Sep	Poor	0	0	0	0	0	Shaul	Survey up to Wolf Creek. Windy, high water, poor light; however good sign in lower end of Blue Violet and Wolf Creek. Probably fish above Wolf Creek, could see fish in places below. Escapement likely 20,000 coho.
317-20.07B	Braided Creek	Not	Surveyed							
317-20.07C	Landlocked Creek	Not	Surveyed							
317-20.07D	Bluff Creek	Not	Surveyed							
317-20.07E	Blue Violet	Not	Surveyed							
317-20.07F	Wolf Creek	Not	Surveyed							
317-20.07H	Shoe Creek	Not	Surveyed							
317-20.07K	Unnamed	Not	Surveyed							
317-20.07J	Unnamed	Not	Surveyed							
317-20.07M	Unnamed	Not	Surveyed							
317-20.07N	Unnamed	Not	Surveyed							
317-20.07O	Plenty Bear Creek	Not	Surveyed							
317-20.07O-	Plenty Bear Creek	Not	Surveyed							
317-20.07P	Waterfall Creek	Not	Surveyed							
317-20.07R	Rainbow Creek	Not	Surveyed							
317-20.07T	Cub Creek	Not	Surveyed							
317-20.08	Birthday Creek	Not	Surveyed							
317-20.09	Barabara Creek	Not	Surveyed							

-Continued-

Table 23. (page 10 of 10)

Stream Number	Stream Name/Location	Date	Survey Conditions	Species					Observer	Remarks ^{a, b}
				Chinook	Sockeye	Coho	Pink	Chum		
318-10.01	Reindeer Creek	Not	Surveyed							
318-20.04A&	Mud Creek	17-Sep	Fair	0	0	6,500	0	0	Shaul	Good visibility in upper portion, poor below; likely another 3-4,000 fish.
318-20.06A	Cinder River	17-Sep	Poor	0	0	0	0	0	Shaul	Counted 1,500 coho in the 1st 2 miles above lake outlet. Likely many more below and in lake. Poor visibility in lake and below.
318-20.06D	Lava Creek	Not	Surveyed							
318-20.06E	High Creek	Not	Surveyed							
318-20.06H	Meloy Creek	Not	Surveyed							
318-20.06J	Wiggly Creek	Not	Surveyed							
318-20.06K	Ray Creek	Not	Surveyed							
318-20.06L	L Creek	Not	Surveyed							

^a Fish listed as being off mouth, etc., are in addition to those in stream unless otherwise noted in remarks.

^b ADF&G super cub was used for surveys unless otherwise noted in remarks.

^c See Nelson River weir counts and total escapement.

^d See Bear River weir counts and total escapement.

^e See Ilnik River weir counts and total escapement.

Table 24. Emergency orders for the North Peninsula, 1993.

EMERGENCY ORDER NO. 4-FS-M-CB-01-93

EFFECTIVE DATE: June 13, 1993

EXPLANATION: This emergency order closes the waters near Sanak Island (bounded by the latitude of Cape Pankof light south of the latitude of Hague Rock) during June 13 through July 5, 1992.

JUSTIFICATION: There is a limit to the number of chum salmon that can be taken in the South Unimak and Shumagin Islands June fisheries (these fisheries will begin no earlier than June 13 and could potentially extend until July 5). Although sockeye are the targeted species, if the chum cap is reached the fishery will close regardless of the unharvested sockeye allocation.

In the past, the area around Sanak Island has produced high chum to sockeye ratios. Historically, commercial salmon fishing records indicate a very limited to non-existent fishing effort near Sanak Island, although during the past two years, fishing interests has increased. Even though the fishing effort was light (i.e. less than 4 boats), the corresponding catch per unit of effort combined with the high chum per sockeye ratio could result in substantial numbers of chum salmon being harvested, if effort were to increase. A substantial amount of effort around Sanak Island could result in a loss of sockeye salmon to the South Unimak - Shumagin Islands June fisheries.

EMERGENCY ORDER NO. 4-FS-M-CB-02-93

EFFECTIVE DATE: 6:00 a.m. June 15, 1993

EXPLANATION: This emergency order allows a 6:00 a.m. until 10:00 p.m. commercial salmon fishing period during June 15 in the South Unimak and Shumagin Island fisheries.

JUSTIFICATION: The June 12-18 sockeye allocations for the Shumagin Islands and South Unimak fisheries are 151,000 and 686,000 fish respectively. A 700,000 chum salmon catch ceiling is placed over both fisheries combined. Test fishing indicated that the chum to sockeye ratio was too high to allow a fishery on the earliest possible dates of June 13 and 14. The ratio is improving and fishing time is needed to harvest the sockeye allocations.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-03-93

EFFECTIVE DATE: May 23, 1993

EXPLANATION: This emergency order reduces the weekly fishing period 48 hours to 6:00 A.M. Monday until 6:00 P.M. Wednesday during May 23 through July 3 in the Black Hills Section.

JUSTIFICATION: Black Hills Section Chinook salmon runs have been declining during recent years. The escapement goals for Black Hills and steelhead creeks has not been achieved since 1988. In order to achieve escapement goals, it is necessary to reduce exploitation during that time when chinook are vulnerable to commercial fishing.

EMERGENCY ORDER NO. 4-FS-M-CB-04-93

EFFECTIVE DATE: 6:00 a.m. June 9, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period six hours until midnight Wednesday in the Inner Port Heiden Section during the week of June 6 - 12.

JUSTIFICATION: Chinook salmon catches are averaging over 1,200 fish per day which is the highest catch for this date since at least 1979 and the second highest average for any date since 1979. The amount of gear is 17 units which is in the normal range. This indicates a very strong run.

Port Heiden fishermen catch most of their fish at low tide. A six hour extension will enable the fishermen to take advantage of this evenings low tide.

EMERGENCY ORDER NO. 4-FS-M-CB-08-93

EFFECTIVE DATE: 6:00 p.m. June 16, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period 24 hours until 6:00 p.m. Thursday in the Inner Port Heiden Section during the week of June 13 - 19.

-Continued-

JUSTIFICATION: Inner Port Heiden chinook salmon catches are averaging 2,000 fish per day which is a record rate. The gear level consists of 14 drift gillnets and 3 set nets which is the normal level. The run is exceptionally strong. The fleet is beginning to move to Bristol Bay for the sockeye season and the gear level is anticipated to decline to a very low level after this week. Unfortunately the Meshik River is too muddy for escapement surveys at this time. Due to the strong run strength and high catches during subsequent days, a 24 hour extension should not jeopardize escapements.

EMERGENCY ORDER NO. 4-FS-M-PM-01-93

EFFECTIVE DATE: 6:00 p.m. June 16, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section six (6) hours from 6:00 p.m. Wednesday, June 16 until 12:00 p.m. midnight Wednesday, June 16. The Bear River Section is extended 24 hours from 6:00 p.m. Wednesday, June 16 until 6:00 p.m. Thursday, June 17.

JUSTIFICATION: The Ilnik River weir count through June 15 is 6,342 sockeye salmon. The June 15 interim escapement goal of 4,000-6,000 has been met. Large numbers of salmon are behind the weir and Ilnik Lagoon commercial catches indicate a strong early run. Effort inside Ilnik lagoon consists of two set gillnet permits. It is appropriate to extend the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs. Escapement through the Bear River weir through June 15 is 31,466 sockeye. The previous four-day average escapement of 5,729 sockeye is very strong for this date. The June 15 escapement goal of 2,000-5,000 as well as the June 20 interim goal have been exceeded. Early morning counts on June 16 indicate another strong daily count. Commercial catches have been good in the Bear River Section. A 24 h extension will provide opportunity to harvest sockeye salmon surplus to escapement needs at Bear River.

EMERGENCY ORDER NO. 4-FS-M-PM-02-93

EFFECTIVE DATE: 6:00 p.m. June 17, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Bear River Section from 6:00 p.m. Thursday, June 17 until 6:00 p.m. Friday, June 18, however, that portion of the Bear River Section within a three (3) nautical mile radius of the mouth of Sandy River is closed to commercial salmon fishing from 6:01 p.m. Thursday, June

-Continued-

17 until 6:00 p.m. Thursday, July 1. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, June 17 until 6:00 p.m. Friday, June 18.

JUSTIFICATION: Escapement through the Bear River weir as of June 16 is 34,063 sockeye. The previous four-day average escapement of 5,221 sockeye is very strong for this date. The June 20 interimescapement goal of 5,000-15,000 has been exceeded. Early morning counts on June 17 indicate another strong daily count. Effort in the Bear River Section is 15 boats and commercial catches have been good. Some effort targets on Sandy River bound fish. Escapement monitoring of Sandy River by aerial survey is unreliable due to the turbidity of the system. It is appropriate to close the commercial salmon season until July 1 within a three nautical mile radius of the stream terminus at the ocean shoreline of the Sandy River. Sufficient opportunity is available to harvest sockeye salmon surplus to escapement needs at Bear River while allowing escapement into Sandy River.

EMERGENCY ORDER NO. 4-FS-M-PM-03-93

EFFECTIVE DATE: 6:00 p.m. June 17, 1993

EXPLANATION: This emergency order reopens the commercial salmon fishing period in the Ilnik Section six (6) hours from 6:00 p.m. Thursday, June 17 until 12:00 p.m. midnight Thursday, June 17.

JUSTIFICATION: The Ilnik River weir count through June 16 is 6,941 sockeye salmon. The stability of the weir is deteriorating rapidly. One large irreparable hole developed on June 14. Counts as of June 14 may not be representative of the actual escapement and may underestimate the actual escapement. Effort inside Ilnik Lagoon consists of one to two set gill net operators. There are 1,000 -2,000 fish behind weir that are expected to be counted through the weir. The June 25 escapement goal of 8,000-12,000 will be exceeded at the present escapement rate. Commercial catches inside Ilnik Lagoon have been excellent. It is appropriate to provide six (6) hours of fishing time in the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-04-93

EFFECTIVE DATE: 6:00 p.m. June 23, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section 6:00 p.m. Wednesday, June 23 until 6:00 p.m. Thursday, June 24. The Bear River Section is extended 24 hours from 6:00 p.m. Wednesday, June 23 until 6:00 p.m. Thursday, June 24.

JUSTIFICATION: The Ilnik River weir count through June 22 is 27,749 sockeye salmon. The June 25 interim escapement goal of 8,000-12,000 has been exceeded. Weir counts are excellent for this date and Ilnik Lagoon commercial catches indicate a strong run. Effort inside Ilnik lagoon consists of two set gillnet permits. It is appropriate to extend the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs.

Escapement through the Bear River weir through June 22 is 70,666 sockeye. The escapement on June 22 of 28,562 is extremely high for this date. The June 25 escapement goal of 15,000-40,000 as well as the June 30 interim goal of 40,000-80,000 have been met. Early morning counts on June 23 indicate another strong daily count with over 5,000 fish passed by 8:00 a.m.. Commercial catches have been excellent in the Bear River Section. Effort in the Bear River Section is about 40 boats with a dramatic increase expected in the near future. A 24 h extension will provide opportunity to harvest sockeye salmon surplus to escapement needs at Bear River.

EMERGENCY ORDER NO. 4-FS-M-PM-05-93

EFFECTIVE DATE: 6:00 p.m. June 24, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section 6:00 p.m. Thursday, June 24 until 6:00 a.m. Saturday, June 26. The Bear River Section is extended 24 hours from 6:00 p.m. Thursday, June 24 until 6:00 p.m. Friday, June 25.

JUSTIFICATION: The Ilnik River weir count through June 23 is over 32,000 sockeye salmon, with the peak season count of 4,607 sockeye being passed on June 23. The June 25 interim escapement goal of 8,000-12,000 has been exceeded as well as the July 1 and July 4 interim goals. Weir counts are excellent for this date and Ilnik Lagoon commercial catches

-Continued-

indicate large numbers of sockeye still entering the lagoon. The morning weir count on June 24 indicate another strong daily escapement. Effort inside Ilnik lagoon consists of two set gillnet permits. It is appropriate to extend the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs.

Escapement through the Bear River weir through June 23 is 81,366 sockeye. The escapement averaged 19,631 on June 22 and 23. The June 25 escapement goal of 15,000-40,000 as well as the June 30 interim goal of 40,000-80,000 have been met. Commercial catches have been excellent for this date in the Bear River Section. Effort in the Bear River Section is about 60-70 boats. Effort in the Herendeen-Moller Bay Section consists of one or two set gillnet operators. A 24 h extension will provide opportunity to harvest sockeye salmon surplus to escapement needs at Bear River.

EMERGENCY ORDER NO. 4-FS-M-CB-15-93

EFFECTIVE DATE: 12:00 p.m. June 24, 1993.

EXPLANATION: This emergency order extends the commercial salmon fishing period 24 hours until 12:00 p.m. midnight, Friday in the Nelson Lagoon Section during the week of June 20 - 26.

JUSTIFICATION: Nelson Lagoon sockeye salmon daily harvests are averaging 21,000 fish per day. This is far higher than the average of 13,000 at this date during the record high run of 1985. The escapement through Sapsuk River weir is 15,000 and there is an estimated 7 -8,000 sockeye in the river below the weir. At this time, it appears that the June 30 goal can be reached while allowing more fishing time.

EMERGENCY ORDER NO. 4-FS-M-PM-06-93

EFFECTIVE DATE: 6:00 a.m. June 26, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section forty-eight (48) hours from 6:00 a.m. Saturday, June 26 until 6:00 a.m. Monday, June 28.

JUSTIFICATION: The Ilnik River weir count through June 24 is 35,910 sockeye salmon. Weir counts for Ilnik are strong with a two-day average of 4,092 sockeye. The morning

-Continued-

count on June 25 was also strong indicating another good day through the weir. Effort inside Ilnik Lagoon consists of one to two set gill net operators. The June 25 escapement goal of 8,000-12,000 has been exceeded, and the minimum season ending goal of 40,000 sockeye by July 15 will likely be reached tomorrow. Commercial catches inside Ilnik Lagoon have been excellent. It is appropriate to extend the commercial fishing period in the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs while preventing overescapement.

EMERGENCY ORDER NO. 4-FS-M-PM-07-93

EFFECTIVE DATE: 6:00 p.m. June 30, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, June 30 until 6:00 p.m. Friday, July 2. The Bear River and Three Hills Sections are extended 24 hours from 6:00 p.m. Wednesday, June 30 until 6:00 p.m. Thursday, July 1.

JUSTIFICATION: The Ilnik River weir count through June 29 is 49,000 sockeye salmon, exceeding the July 1 goal of 16,000-24,000 sockeye. The July 15 season ending goal of 40,000-60,000 has been met and at the present three day escapement rate of 2,000 fish/day will surpass the upper escapement goal of 60,000 by July 5. Weir counts are excellent for this date and Ilnik Lagoon commercial catches indicate large numbers of sockeye still entering the lagoon. The morning weir count on June 30 indicates another decent daily escapement. Effort inside Ilnik lagoon consists of two set gillnet permits. It is appropriate to extend the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs and prevent over-escapement.

Escapement through the Bear River weir as of June 29 is 93,937 sockeye. The June 30 escapement goal of 40,000-80,000 has been exceeded. Effort in the Bear River and Three Hills Sections is about 150 boats. Catches in the area have been good especially within the Bear River Section, indicating large numbers of fish en route. Escapement into Bear River has dropped dramatically over last weeks peak counts, and is still on target for the July 5 interim goal of 80,000-100,000. A 24 h extension will provide opportunity to harvest sockeye salmon surplus to escapement needs at Bear River.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-20-93

EFFECTIVE DATE: 12:00 p.m. July 1, 1993.

EXPLANATION: This emergency order extends the commercial salmon fishing period 24 hours until 12:00 p.m. midnight, Friday in the Nelson Lagoon Section during the week of June 27 - July 3.

JUSTIFICATION: The sockeye escapement past the Sapsuk River weir is 46,000 through June 29. This is well above the June 30 target of 30,000. More fishing time is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-PM-08-93

EFFECTIVE DATE: 6:00 p.m. July 2, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Friday, July 2 until 6:00 p.m. Saturday, July 3.

JUSTIFICATION: The Ilnik River weir count as of July 1 is 52,782 sockeye salmon, exceeding the July 1 goal of 16,000-24,000 sockeye. The July 15 season ending goal of 40,000-60,000 has been met and at the present three day escapement rate of 2,200 fish/day will surpass the upper escapement goal of 60,000 by July 5. Weir counts are excellent for this date and Ilnik Lagoon commercial catches indicate decent numbers of sockeye still entering the lagoon. Effort inside Ilnik lagoon consists of two set gillnet permits. It is appropriate to extend the Ilnik Section to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs and prevent over-escapement.

EMERGENCY ORDER NO. 4-FS-M-PM-09-93

EFFECTIVE DATE: 6:00 p.m. July 3, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Saturday, July 3 until 6:00 p.m. Wednesday, July 7. The Bear River and Three Hills Sections will open to commercial salmon fishing at 6:00 a.m. Sunday, July 4 until 6:00 p.m. Thursday, July 8. That portion of the Herendeen-Moller Bay Section

-Continued-

enclosed by a line from Entrance Point to Harbor Point will open to commercial salmon fishing at 6:00 a.m. Sunday, July 4 until 6:00 p.m. Thursday, July 8.

JUSTIFICATION: The Ilnik River weir count through July 2 is over 53,000 sockeyesalmon, exceeding the July 1 goal of 16,000-24,000 sockeye. The July 15 season ending goal of 40,000-60,000 has been met and at the present three day escapement rate will surpass the upper escapement goal of 60,000 by July 15. Ilnik Lagoon commercial catches indicate large numbers of sockeye still entering the lagoon. Effort inside Ilnik lagoon presently consists of two set gillnet permits. Effort on July 5 is expected to be about 150 drift gillnet operators. It is appropriate to extend the Ilnik Section through the weekend to provide optimum opportunity to harvest sockeye salmon surplus to escapement needs and prevent over-escapement.

Escapement through the Bear River weir as of July 2 is 105,814 sockeye. The July 5 escapement goal of 80,000-100,000 has been exceeded. Effort in the Bear River and Three Hills Sections is expected to be about 160 boats. Escapement into Bear River is increasing since the closure on Thursday, with 2,500 fished passed by 8:00 a.m. on July 3, indicating a strong day through the weir. The July 10 goal of 100,000-110,000 should be reached with todays daily count. Escapement into Sandy River appears to be strong to date, with the three nautical mile closed season around the stream terminus no longer needed. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point, the Bear River and Three Hills Sections will be opened to commercial salmon fishing twenty-four (24) hours early which will provide opportunity to harvest sockeye salmon surplus to escapement needs at Bear River.

EMERGENCY ORDER NO. 4-FS-M-CB-21-93

EFFECTIVE DATE: 6:00 a.m. July 5, 1993.

EXPLANATION: This emergency order establishes a 6:00 a.m. Monday until 6:00 p.m. Thursday commercial salmon fishing period in the Bechevin Bay Section during the week of July 4 - 10, 1993. This is the same fishing period that is allowed in the adjacent Swanson Lagoon and Izembek - Moffet Bay Sections.

This emergency order also closes the flats in Peterson Lagoon, above 500 yards from the lagoon entrance at the ocean shoreline, to commercial salmon fishing.

-Continued-

JUSTIFICATION: Chum salmon should be entering the Bechevin Bay Section at this time. A 6:00 a.m. Monday until 6:00 p.m. Thursday fishing period will give Bechevin Bay the same fishing time as the balance of the Northwestern District, where the season is open, during the week of July 4 - 10.

When salmon reach the flats in Peterson lagoon, they are of very poor quality and are usually needed for escapement. The resource can be adequately harvested in the entrance channel and outside the lagoon. Fishing on the Peterson Lagoon flats is a threat to the resource, therefore that part of Peterson Lagoon above the entrance channel should be closed to commercial salmon fishing.

EMERGENCY ORDER NO. 4-FS-M-PM-10-93

EFFECTIVE DATE: 1:00 p.m. July 5, 1993

EXPLANATION: This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 1:00 p.m. July 5 until 6:00 p.m. July 8.

JUSTIFICATION: Escapement through the Bear River weir as of July 4 is 123,632 sockeye. The July 4 daily count of 11,889 brings the three day average to 7,845 sockeye. As of 8:45 a.m. on July 5, another 6,000 sockeye were passed indicating another very strong daily weir count. The July 5 escapement goal of 80,000-100,000 has been exceeded. Effort in the Bear River and Three Hills Sections is about 160 boats. Commercial harvest rates indicate more fish en route. It is appropriate at this time to reduce the closed waters at Bear River to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-23-93

EFFECTIVE DATE: 6:00 p.m. July 7, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time 48 hours until 6:00 p.m. Friday in the Inner Port Heiden Section and 12:00 p.m. midnight July 10 in the Nelson Lagoon Section during the week of July 4 -10.

-Continued-

JUSTIFICATION: Nelson Lagoon sockeye salmon escapement through Sapsuk weir is 109,000 as of midnight July 6. This is well above the July 10 goal of 90,000 and close to the July 15 target of 110,000. More fishing time is needed to harvest the resource. This week, there has been no commercial salmon fishing effort in the Inner Port Heiden Section. A 48 hour extension will make the fishing period end at the same time as that of the nearby Ilnik Section, and give fishermen a chance to test the strength of the Port Heiden sockeye run.

EMERGENCY ORDER NO. 4-FS-M-PM-11-93

EFFECTIVE DATE: 6:00 p.m. July 7, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, July 7 until 6:00 p.m. Friday, July 9. The Bear River and Three Hills Sections are extended from 6:00 p.m. Thursday, July 8 until 6:00 a.m. Monday, July 12. This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 p.m. July 8 until 6:00 p.m. July 15. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, July 8 until 6:00 a.m. Monday, July 12.

JUSTIFICATION: Escapement through the Ilnik River weir is 55,678 exceeding the minimum season goal of 40,000. Effort inside Ilnik Lagoon is one set gillnet operator and catches indicate fish are still entering the Lagoon. With no conservation concern for Bear or Ugashik Rivers at the present time, it is appropriate to extend the Ilnik Section 48 hours to harvest salmon to escapement needs at Ilnik while preventing excessive over-escapement.

Escapement through the Bear River weir as of July 5 is 157,389 sockeye. The July 5 daily count of 33,757 is the peak count for the season. The early run goal by July 15 of 110,000-125,000 sockeye has been exceeded. It is appropriate at this time to extend that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point, and the Bear River and Three Hills Sections. Also the closed waters at Bear River will remain reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-12-93

EFFECTIVE DATE: 6:00 p.m. July 9, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Friday, July 9 until 6:00 a.m. Monday, July 12.

JUSTIFICATION: Escapement through the Ilnik River weir is 57,498 exceeding the minimum season goal of 40,000. Fish are still entering into the system with the run typically over around July 15. With no conservation concern for Bear or Ugashik Rivers and with the escapement goal likely to be exceeded in Ugashik River and the first run escapement goal of Bear River already exceeded, it is appropriate to extend the Ilnik Section to harvest salmon to escapement needs at Ilnik while preventing excessive over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-26-93

EFFECTIVE DATE: 6:00 p.m. July 9, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time from 6:00 p.m. Friday July 9 until 6:00 p.m. Wednesday July 14 in the Inner Port Heiden Section.

JUSTIFICATION: There have been no reported commercial salmon catches from the Inner Port Heiden Section during this week. A subsistence report indicates a high abundance of sockeye at Port Heiden. Extended fishing time will give fishermen more opportunity to test run strength and harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-CB-24-93

EFFECTIVE DATE: 12:00 p.m. July 10, 1993.

EXPLANATION: This emergency order allows continuous commercial salmon fishing time in the Nelson Lagoon Section until 12:00 p.m. midnight July 15.

JUSTIFICATION: The Nelson Lagoon sockeye salmon escapement through the Sapsuk River weir continues at a high rate. The escapement through July 7 totaled 115,000 which is in the season escapement goal range and at the July 20 target. More fishing time is needed to harvest the resource.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-25-93

EFFECTIVE DATE: July 11, 1993

EXPLANATION: This emergency order establishes a 6:00 a.m. Monday until 6:00 p.m. Tuesday commercial salmon fishing period during the week of July 11 - 17 in the Bechevin Bay Section.

This emergency order expands the closed waters at Swanson Lagoon to include all of Swanson Lagoon, it's outlet channel, and all waters within 500 yards of the outlet channel terminus.

JUSTIFICATION: A 36 hour fishing period in the Bechevin Bay Section will allow fishermen to test chum salmon run strength without jeopardizing the early run.

The chum salmon escapement into Silver Salmon Creek at Swanson Lagoon is less than 3,000 fish and no sockeye salmon were observed in the creek. Expanded closed waters will allow many more salmon to escape and still allow fishermen to harvest salmon outside of 500 yards from the lagoon terminus.

EMERGENCY ORDER NO. 4-FS-M-PM-13-93

EFFECTIVE DATE: 12:00 a.m. July 11, 1993

EXPLANATION: This emergency order reduces the closed waters in the Bear River Section at Sandy River to 500 yards of the stream terminus at the ocean shoreline from 12:00 a.m. (noon) July 11 until the end of the commercial salmon fishing season on September 30.

JUSTIFICATION: An aerial survey conducted on July 10 indicated 46,300 sockeye salmon in Sandy Lake and upper Sandy River. The escapement goal for Sandy River is 20,000-30,000 sockeye and has been exceeded. Decreasing the closed waters around Sandy River from the present 2,000 yards to 500 yards will provide sufficient opportunity to harvest surplus sockeye salmon still entering the system, while still providing a buffer for chinook salmon that occasionally back-out of the lower Sandy River into the ocean. The 500 yard closure usually provides an ample closed area for coho salmon with the amount of fishing effort that is usually present in August and September.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-14-93

EFFECTIVE DATE: 6:00 p.m. July 14, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, July 14 until 6:00 p.m. Thursday, July 15.

JUSTIFICATION: Escapement through the Ilnik River weir as of July 13 is 60,651 sockeye salmon, exceeding the season goal of 40,000-60,000. Fish are still entering into the system with the daily counts increasing and the three day average of 862 fish. With no conservation concern for Bear or Ugashik Rivers and with the escapement goal exceeded in Ugashik River and the first run escapement goal of Bear River also exceeded, it is appropriate to extend the Ilnik Section to harvest salmon to escapement needs at Ilnik while preventing excessive over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-28-93

EFFECTIVE DATE: 6:00 p.m. July 14, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time from 6:00 p.m. Wednesday July 14 until 6:00 p.m. Thursday July 15 in the Inner Port Heiden Section.

JUSTIFICATION: There have been no reported commercial salmon catches from the Inner Port Heiden Section during this week. A subsistence report indicates a high abundance of sockeye at Port Heiden. Extended fishing time will give fishermen more opportunity to test run strength and harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-PM-15-93

EFFECTIVE DATE: 6:00 p.m. July 15, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Thursday, July 15 until 6:00 p.m. Saturday, July 17. The Bear River and Three Hills Sections are extended from 6:00 p.m. Thursday, July 15 until 6:00 p.m. Saturday, July 17. This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 p.m. July 15 until 6:00 p.m. July 17. That portion of the Herendeen-Moller Bay Section enclosed by a line from

-Continued-

Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, July 15 until 6:00 p.m. Saturday, July 17.

JUSTIFICATION: Escapement through the Ilnik River weir is 61,287 exceeding the season ending goal of 40,000-60,000. Bear River escapement is 215,731 as of July 14 with the July 15 goal of 110,000-125,000 exceeded. Post July 15, if there is no conservation concern for either Ilnik or Ugashik Rivers, the Ilnik Section is managed based on escapement into Bear River. With the escapement goals exceeded in Ilnik, Bear and Ugashik Rivers it is appropriate to extend the Ilnik Section, Three Hills, and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point. Also the closed waters at Bear River will remain reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-29-93

EFFECTIVE DATE: 6:00 p.m. July 15, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time 24 hours until 6:00 p.m. Friday in the Urilia Bay Section during the week of July 11 - 17.

JUSTIFICATION: Escapements of both sockeye and chum salmon appear strong in the Urilia Bay Section although survey conditions prevented accurate estimates. High winds prevented fishing during Monday. An extra 24 hours of fishing time can be allowed without jeopardizing the resource.

EMERGENCY ORDER NO. 4-FS-M-CB-30-93

EFFECTIVE DATE: 6:00 p.m. July 15, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time from 6:00 p.m. Thursday July 15 until 6:00 p.m. Saturday July 17 in the Inner Port Heiden Section.

JUSTIFICATION: There have been no reported commercial salmon catches from the Inner Port Heiden Section during this week. A subsistence report indicates a high abundance of sockeye at Port Heiden. Extended fishing time will give fishermen more opportunity to test run strength and harvest the resource. The 6:00 p.m. July 17 closure is the same as the adjacent Ilnik Section.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-27-93

EFFECTIVE DATE: 12:00 p.m. July 15, 1993.

EXPLANATION: This emergency order allows continuous commercial salmon fishing time in the Nelson Lagoon Section until 12:00 p.m. midnight July 22.

JUSTIFICATION: The Nelson Lagoon sockeye salmon escapement of 139,700 through the Sapsuk River weir is only about 10,000 fish below the upper end of the goal range of 100,000 to 150,000. Daily sockeye escapements average over 3,000 fish per day during the last two days despite continuous fishing since July 5. More fishing time is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-PM-16-93

EFFECTIVE DATE: 6:00 p.m. July 17, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Saturday, July 17 until 6:00 a.m. Monday, July 19. The Bear River and Three Hills Sections are extended from 6:00 p.m. Saturday, July 17 until 6:00 a.m. Monday, July 19. This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 p.m. July 17 until 6:00 a.m. July 19. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Saturday, July 17 until 6:00 a.m. Monday, July 19.

JUSTIFICATION: Escapement through the Ilnik River weir as of July 16 is 62,492 exceeding the season ending goal of 40,000-60,000. Approximately 600 sockeye/day are still entering the system. The Ilnik River weir will be removed today. The Bear River escapement through July 15 was 218,158, exceeding the July 15 goal of 110,000-125,000. The next interim goal of 40,000-50,000 between July 16 and August 5 already has a good start with 4,933 sockeye passed through the weir on July 16. Post July 15, if there is no conservation concern for either Ilnik or Ugashik Rivers, the Ilnik Section is managed based on escapement into Bear River. With the escapement goals exceeded in Ilnik and Ugashik Rivers it is appropriate to extend the Ilnik Section, Three Hills, and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point. Also the closed waters at Bear River will remain reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-17-93

EFFECTIVE DATE: 6:00 a.m. July 19, 1993

EXPLANATION: This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 a.m. July 19 until 6:00 p.m. July 22.

JUSTIFICATION: Escapement through the Bear River weir as of July 17 is 222,631 sockeye. The first run escapement goal has been exceeded and at the present rate of 5,000 fish/day, the July 16-August 5 goal of 40,000-50,000 will be exceeded. As of 7:45 p.m. on July 18 the daily count was 5,000 sockeye, bringing the total to over 15,000 sockeye for the July 16-August 5 goal. Commercial harvest rates indicate more fish en route. It is appropriate at this time to reduce the closed waters at Bear River to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-31-93

EFFECTIVE DATE: 6:00 a.m. July 19, 1993.

EXPLANATION: This emergency order establishes a 6:00 a.m. Monday until 6:00 p.m. Tuesday commercial salmon fishing period during the week of July 18 - 24 in the Bechevin Bay Section.

JUSTIFICATION: A 36 hour fishing period in the Bechevin Bay Section will allow fishermen to harvest chum salmon while allowing plenty of time during the remainder of the week for fish to escape.

EMERGENCY ORDER NO. 4-FS-M-PM-18-93

EFFECTIVE DATE: 6:00 p.m. July 21, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, July 21 until 6:00 a.m. Monday, July 26. The Bear River and Three Hills Sections are extended from 6:00 p.m. Thursday, July 22 until 6:00 a.m. Monday, July 26. This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 p.m. July 22 until 6:00

-Continued-

a.m. July 26. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, July 22 until 6:00 a.m. Monday, July 26.

JUSTIFICATION: Escapement through the Ilnik River weir is over 62,000 sockeye, exceeding the season ending goal of 40,000-60,000. Bear River escapement is 239,763 as of July 20. The July 16-August 5 goal of 40,000-50,000 has an excellent start with over 21,000 sockeye passed through the weir over the previous 5-day period. Catches indicate more fish are en route. Post July 15, if there is no conservation concern for either Ilnik or Ugashik Rivers, the Ilnik Section is managed based on escapement into Bear River. With the escapement goals exceeded in Ilnik and Ugashik Rivers it is appropriate to extend the Ilnik Section, Three Hills, and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point. Also the closed waters at Bear River will remain reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-33-93

EFFECTIVE DATE: 12:00 p.m. July 22, 1993.

EXPLANATION: This emergency order allows continuous commercial salmon fishing time in the Nelson Lagoon Section until 12:00 p.m. midnight July 30.

JUSTIFICATION: The sockeye salmon escapement in the Nelson Lagoon system through the Sapsuk River Weir is 162,400. This is above the season escapement goal of 100,000 to 150,000. The fishery is only harvesting a little over half of the daily run. With this low efficiency, the impact on stocks other than Sapsuk River sockeye is estimated to be light. After July 30, the Nelson Lagoon Fishery will be managed for stocks other than Sapsuk River sockeye as the Sapsuk sockeye run should be over by then.

EMERGENCY ORDER NO. 4-FS-M-CB-34-93

EFFECTIVE DATE: 6:00 p.m. July 22, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time for 24 hours until 6:00 p.m. Friday during the week of July 18 - 24 in the Urilia Bay and Izembek - Moffet Bay Sections.

-Continued-

JUSTIFICATION: Escapements of sockeye and chum salmon appear good in the Urilia Bay Section, fishing time has been lost due to weather and fishing effort is very light. Fishermen were only able to fish two days in the Izembek - Moffet Bay Section during the previous week and have lost one day during the present week and part of another due to weather. A 24 hour extension will enable Fishermen to make up part of the fishing time lost due to weather. Muddy stream conditions have prevented escapement surveys. Effort is light, consisting of 4 seine boats and one drift gillnetter.

EMERGENCY ORDER NO. 4-FS-M-PM-19-93

EFFECTIVE DATE: 6:00 a.m. July 26, 1993

EXPLANATION: This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 a.m. July 26 until 6:00 p.m. July 29.

JUSTIFICATION: Escapement through the Bear River weir as of July 24 is 243,523 sockeye. The July 16-August 5 goal of 40,000-50,000 will be exceeded at the present escapement rate with 25,365 sockeye passed through the weir already. Commercial harvest rates indicate more fish en route. It is appropriate at this time to keep the closed waters at Bear River reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

EMERGENCY ORDER NO. 4-FS-M-PM-20-93

EFFECTIVE DATE: 6:00 p.m. July 28, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, July 28 until 6:00 a.m. Monday, August 2. The Bear River and Three Hills Sections are extended from 6:00 p.m. Thursday, July 29 until 6:00 a.m. Monday, August 2. This emergency order keeps the closed waters in the Bear River Section at Bear River reduced to the stream terminus at the ocean shoreline from 6:00 p.m. July 29 until 6:00 a.m. August 2. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, July 29 until 6:00 a.m. Monday, August 2.

-Continued-

JUSTIFICATION: Bear River sockeye escapement is 247,445 as of July 27. The season ending goal by August 31 is 200,000-250,000. Escapement is steady with 1,000-2,000 fish/day through the weir. Catches are increasing indicating decent numbers of fish are still en route. Post July 15, if there is no conservation concern for either Ilnik or Ugashik Rivers, the Ilnik Section is managed based on escapement into Bear River. With the escapement goals exceeded in Ilnik and Ugashik Rivers it is appropriate to extend the Ilnik Section, Three Hills, and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point. Also the closed waters at Bear River will remain reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing over-escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-37-93

EFFECTIVE DATE: August 1, 1993

EXPLANATION: This emergency order closes the commercial salmon fishing season in the Izembek - Moffet Bay Section during the week of August 1 - 7.

JUSTIFICATION: The chum salmon run in the Izembek - Moffet Bay Section appears weak. The fishery should be closed for at least a week to increase escapements.

EMERGENCY ORDER NO. 4-FS-M-PM-21-93

EFFECTIVE DATE: 6:00 a.m. August 2, 1993

EXPLANATION: This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 a.m. August 2 until 6:00 p.m. August 5.

JUSTIFICATION: Escapement through the Bear River weir as of July 31 is 254,012 sockeye. The season goal of 250,000 by August 31 has been exceeded. The July 16-August 5 goal of 40,000-50,000 will be exceeded at the present two-day escapement rate of 2,600 fish/day. Since July 16, 35,854 sockeye have been counted through the weir. Commercial harvest rates indicate more fish en route. It is appropriate at this time to keep the closed waters at Bear River reduced to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing excessive over-escapement.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-38-93

EFFECTIVE DATE: 9:00 p.m. August 2, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time 24 hours until 9:00 p.m. August 3 in all four districts located on the south (Pacific) side of the Alaska Peninsula Area.

JUSTIFICATION: Pink salmon escapements are generally very good in early producing streams. The August 1 pink salmon harvest was 512,000 fish which indicates at least a moderately strong run. More fishing time is needed to harvest the resource while the quality is still good.

EMERGENCY ORDER NO. 4-FS-M-PM-22-93

EFFECTIVE DATE: 6:00 a.m. August 3, 1993

EXPLANATION: This emergency order reopens the commercial salmon fishing period in Herendeen Bay of the Herendeen-Moller Bay Section from 6:00 a.m. Tuesday, August 3 until 12:00 p.m. Wednesday, September 30. The closed waters of Herendeen Bay include: 1) all waters southeast of a line from 55°43'33" N. lat., 160°42'24" W. long. to a point 1/2 nautical mile northwest of Lawrence Valley Creek at 55°44'52" N. lat., 160°40'01" W. long., 2) all waters of the Deer Valley (west arm) of Herendeen Bay south of 55°45'15" N. lat., and 3) all waters within one nautical mile of Coal Creek.

JUSTIFICATION: Escapement objectives were met for chum salmon in Lawrence Valley and Grass Valley Creeks as determined from aerial surveys. The chum salmon escapement into Lawrence Valley Creek was estimated at 30,000 and in Grass Valley Creek 25,000 chum salmon were observed. Escapement objectives are presently not met in Deer Valley and Coal Creeks. Escapement into Deer Valley Creek was estimated at 7,000 chums while Coal Creek escapement was estimated at 1,400 chum salmon. Providing closed waters around those systems that have met escapement objectives will prevent harvest of fish that may back-out of the systems. The closed waters around Deer Valley and Coal Creeks should protect these systems and still provide harvest of chum salmon surplus to escapement needs in other areas of Herendeen Bay. Significant numbers of fish were observed on the flats to Lawrence Valley and Grass Valley Creeks and more fish appear to be en route into Herendeen Bay.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-23-93

EFFECTIVE DATE: 6:00 p.m. August 4, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, August 4 until 6:00 p.m. Thursday, August 5.

JUSTIFICATION: The Bear River sockeye salmon interim goal of 40,000-50,000 from July 16-August 5 has been met. The total adult sockeye escapement is 247,942. It is appropriate to extend the Ilnik Section to harvest surplus sockeye into Bear River for the July 16-August 5 period.

EMERGENCY ORDER NO. 4-FS-M-CB-39-93

EFFECTIVE DATE: 8:00 a.m. August 6, 1993.

EXPLANATION: This emergency order establishes a 8:00 a.m. August 6 until 9:00 p.m. August 7 commercial salmon fishing period in all four districts located on the South (Pacific) side of the Alaska Peninsula Area. The closed waters at Thin Point Cove are reduced to include only those waters within 1000 yards of the Thin Point Lagoon terminus and to within 500 yards of other salmon streams in Thin Point Cove. This emergency order supersedes emergency order 4-FS-M-36-93 in regards to Thin Point Cove.

JUSTIFICATION: Pink salmon escapements are generally good in early producing streams. Catches during the previous fishing period averaged 600,000 pink salmon per day which indicates a strong run. Fishing time is needed to harvest the resource. The sockeye escapement into Thin Point Cove appears strong and there will be no minus tides during the next several days which could cause fish to back out of the lagoon and into the fishery.

EMERGENCY ORDER NO. 4-FS-M-CB-40-93

EFFECTIVE DATE: August 9, 1993

EXPLANATION: This emergency order changes the fishing period from 6:00 a.m. Monday until 6:00 p.m. Wednesday to 6:00 a.m. until 10:00 p.m. on Monday, Wednesday, and Friday during the week of August 8 - 14 in the Inner Port Heiden Section.

-Continued-

JUSTIFICATION: There is only one buyer interested in buying coho salmon in the Inner Port Heiden Section and only one tender is available. The fish will have to be transported approximately 100 miles to be processed. The buyer wants to buy the fish only if they are top quality. Unless the fishing period is divided into short periods scattered apart, it is likely that Port Heiden fishermen will not have a market for their salmon.

EMERGENCY ORDER NO. 4-FS-M-PM-24-93

EFFECTIVE DATE: 6:00 a.m. August 9, 1993

EXPLANATION: This emergency order closes the commercial salmon fishing period in the Ilnik Section from 6:00 a.m. Monday, August 9 until 6:00 a.m. Tuesday, August 10. The Bear River and Three Hills Sections are closed to commercial salmon fishing from 6:00 a.m. Monday, August 9 until 6:00 a.m. Tuesday, August 10. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is closed to commercial salmon fishing from 6:00 a.m. Monday, August 9 until 6:00 a.m. Tuesday, August 10.

JUSTIFICATION: The post August 5 Bear River sockeye escapement goal of 50,000-75,000 will not be reached at the present escapement rate of 462 fish/day. Post August 5, only 923 adult sockeye have been passed through the weir. It is appropriate to close that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point, along with the Bear River, Three Hills, and Ilnik Sections to commercial salmon fishing for 24 hours to provide opportunity for migrating fish to enter the Bear River.

EMERGENCY ORDER NO. 4-FS-M-CB-44-93.

EFFECTIVE DATE: 10:00 p.m. August 9, 1993.

EXPLANATION: This emergency supersedes emergency order 4-FS-M-CB-40-93. Fishing time is extended from 10:00 p.m. Monday until 6:00 a.m. Wednesday during the week of August 8 - 14.

JUSTIFICATION: Weather prevented any fishing during Monday. An extension of fishing time will enable fishermen to make up for time lost. This is the first fishing effort for coho this season at Port Heiden.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-25-93

EFFECTIVE DATE: 6:00 a.m. August 10, 1993

EXPLANATION: This emergency order closes the commercial salmon fishing season in that portion of the Bear River Section located from 2,000 yards northeast of the Sandy River to 500 yards southwest of the entrance to Franks Lagoon from 6:00 a.m. Tuesday, August 10 until 12:00 p.m. Thursday, September 30.

JUSTIFICATION: The post August 5 escapement into Bear River is about 3,500 adult sockeye as of 7:45 p.m. August 9. The goal for this period is 50,000-75,000 sockeye by August 31. Escapement into Bear River began to increase on August 9 with larger numbers of fish expected to be en route and milling around the river mouth. Commercial fishing has not been permitted in the area since August 5. It is appropriate to close a portion of the Bear River Section until further notice to provide a substantial buffer for migrating fish to enter into the river, while also providing commercial fishing opportunity on fish that will be excess to the escapement needs. The second run for Bear River sockeye is expected to peak within the next week. The closed water area is not expected to be needed for an extended duration and will be removed when decent numbers of sockeye are passed through the weir.

EMERGENCY ORDER NO. 4-FS-M-PM-26-93

EFFECTIVE DATE: 6:00 p.m. August 11, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section from 6:00 p.m. Wednesday, August 11 until 6:00 p.m. Thursday, August 12.

JUSTIFICATION: The Bear River sockeye salmon post August 5 goal of 50,000-75,000 has 8,700 adult sockeye passed the weir as of the morning of August 11. More fish (at least 1,000-2,000) are behind the weir and more are expected to be en route. The total adult sockeye escapement is almost 258,000. The season ending goal of 250,000 has been met, but the late run goal (post August 5) of 50,000-75,000 is still being achieved. It is appropriate to extend the Ilnik Section to harvest surplus sockeye into Bear River.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-27-93

EFFECTIVE DATE: 6:00 p.m. August 12, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Bear River and Three Hills Sections from 6:00 p.m. Thursday, August 12 until 6:00 p.m. Friday, August 13. This emergency order also reduces the waters closed to commercial salmon fishing in the Bear River Section to 500 yards from all salmon systems effective at 6:00 p.m. Thursday, August 12 until 12:00 p.m. Thursday, September 30. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, August 12 until 6:00 p.m. Friday, August 13.

JUSTIFICATION: Bear River adult sockeye escapement is 262,819 as of August 11. The season ending goal by August 31 is 200,000-250,000. The post August 5 second run escapement goal of 50,000-75,000 has 16,182 adult salmon through the weir as of 8:45 a.m. August 12, with 1,000-2,000 still behind the weir. Catches are increasing indicating decent numbers of fish are en route. The second run into Bear River should peak within the next few days. It is appropriate to extend the Three Hills and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point to harvest salmon surplus to the escapement needs at Bear River and prevent excessive overescapement.

EMERGENCY ORDER NO. 4-FS-M-PM-28-93

EFFECTIVE DATE: 6:00 p.m. August 12, 1993

EXPLANATION: This emergency order reduces the closed waters in the Bear River Section at Bear River to the stream terminus at the ocean shoreline from 6:00 p.m. August 12 until 12:00 p.m. September 30.

JUSTIFICATION: Escapement through the Bear River weir as of 1:00 p.m. August 12 is 270,000 adult sockeye salmon. The season goal of 250,000 by August 31 has been exceeded. As of 1:00 p.m. August 12, 8,000 sockeye have been passed through the weir with large numbers of fish behind the weir and at the mouth of the river. The post August 5 goal of 50,000-75,000 will be exceeded at the present escapement rate. With today's daily count, the adult sockeye total for post August 5 is over 21,000 with the bulk of the second run into Bear River yet to appear. Commercial harvest rates indicate more fish en route. It is a appropriate

-Continued-

at this time to reduce the closed waters at Bear River to the stream terminus to harvest sockeye salmon surplus to escapement needs at Bear River while preventing excessive over-escapement.

EMERGENCY ORDER NO. 4-FS-M-PM-29-93

EFFECTIVE DATE: 6:00 p.m. August 13, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Bear River and Three Hills Sections from 6:00 p.m. Friday, August 13 until 6:00 a.m. Monday, August 16. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Friday, August 13 until 6:00 a.m. Monday, August 16.

JUSTIFICATION: Bear River adult sockeye escapement through August 12 is 285,958. The season ending goal by August 31 is 200,000-250,000. The post August 5 second run escapement goal of 50,000-75,000 has 40,021 adult salmon through the weir as of 8:45 a.m. August 13, with more fish behind the weir and moving up the river. Yesterdays daily sockeye weir count of 25,768 salmon was one of the top daily counts this season. Catches are excellent indicating decent numbers of fish are still en route. The second run into Bear River is likely peaking at this time. Commercial fishing is allowed up to the mouth of Bear River for the duration of the 1993 salmon season, as stated in a previous emergency order. It is appropriate to extend the Three Hills and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point to harvest salmon surplus to the escapement needs at Bear River and prevent excessive overescapement.

EMERGENCY ORDER NO. 4-FS-M-PM-30-93

EFFECTIVE DATE: 6:00 p.m. August 19, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Bear River and Three Hills Sections from 6:00 p.m. Thursday, August 19 until further notice. That portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point is extended from 6:00 p.m. Thursday, August 19 until further notice.

-Continued-

JUSTIFICATION: Bear River adult sockeye escapement through August 17 is 301,425. The season ending goal by August 31 is 200,000-250,000. The post August 5 second run escapement goal of 50,000-75,000 has over 52,000 adult salmon through the weir. Catches remain good indicating more fish are still en route. Although the peak of the Bear River second run is over, there are still three weeks of the run remaining. Commercial fishing is allowed up to the mouth of Bear River for the duration of the 1993 salmon season, as stated in a previous emergency order. It is appropriate to extend the Three Hills and Bear River Sections, along with that portion of the Herendeen-Moller Bay Section enclosed by a line from Entrance Point to Harbor Point, until further notice to harvest salmon surplus to the escapement needs at Bear River and prevent excessive overescapement. It is anticipated that the areas listed above will remain open to continuous commercial salmon fishing for the duration of the 1993 commercial salmon season.

EMERGENCY ORDER NO. 4-FS-M-CB-52-93.

EFFECTIVE DATE: August 22, 1993.

EXPLANATION: This emergency order reduces the commercial salmon fishing period 24 hours to 6:00 a.m. Monday until 12:00 p.m. midnight Tuesday in the Nelson Lagoon Section during the week of August 22 - 28.

JUSTIFICATION: Coho salmon catches during the week of August 15 - 21 were extremely weak in the Nelson Lagoon Section, totaling only 1,215 fish. A normal harvest during this time period would total 5,000 to 15,000 fish. The Nelson Lagoon Fishery is efficient at catching coho salmon. A reduction in fishing time to only two days will enable the fleet to test the run, which could be late, while leaving a long closure to obtain escapement.

EMERGENCY ORDER NO. 4-FS-M-PM-31-93

EFFECTIVE DATE: 6:00 p.m. August 25, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section six hours from 6:00 p.m. Wednesday, August 25 until 12:00 p.m. (midnight) Wednesday, August 25.

-Continued-

JUSTIFICATION: Catches inside Ilnik Lagoon are fair for this date. Effort in the Ilnik Section consists of two set gillnet operators. It is appropriate at this time to extend the Ilnik Section six hours to provide reasonable opportunity to harvest coho salmon on today's tide, and further gauge the coho run strength into the Unangashak River.

EMERGENCY ORDER NO. 4-FS-M-CB-58-93.

EFFECTIVE DATE: August 29, 1993.

EXPLANATION: This emergency order closes the commercial salmon fishing season in the Cinder River Section effective August 29, 1993.

JUSTIFICATION: The harvest this week is averaging 2,500 coho per day as compared to the recent five year average of 4,400 coho per day. Effort level is below normal but the catch per delivery has remained well below average, thus it is apparent the Cinder River coho run is below normal strength. The fishery should be closed at this time to assure a healthy escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-59-93.

EFFECTIVE DATE: September 1, 1993.

EXPLANATION: This emergency order establishes a 9:00 a.m. September 3 until 8:00 p.m. September 5 commercial salmon fishing period in the following locations:

- | | |
|--------------------------|---------------------------------|
| 1. Cold Bay Section | 5. Unimak District |
| 2. Thin Point Section | 6. Uria Bay Section |
| 3. Morzhovoi Bay Section | 7. Swanson Lagoon Section |
| 4. Ikatan Bay Section | 8. Izembek - Moffet Bay Section |

The closed waters of Thin Point Cove are reduced to include only those waters within 1,000 yards of the Thin Point Lagoon terminus and within 500 yards of the other salmon stream emptying in Thin Point Cove.

Those waters of Lenard Harbor east of 162 degrees 25 minutes 46 seconds W. long. will remain closed to commercial salmon fishing until further notice.

-Continued-

Swanson Lagoon, its outlet channel and all waters within 500 yards of the outlet channel terminus will remain closed to commercial salmon fishing until further notice.

JUSTIFICATION: Coho salmon are now entering streams in the western portion of the Alaska Peninsula Area, and fishing time is needed for fishermen to harvest the resource.

Dark sockeye salmon are milling in Swanson Lagoon and its outlet channel. No fishing should be allowed in the lagoon and near the outlet channel until the sockeye have moved out of the way.

The chum salmon run in Lenard Harbor continues to be weak and should not be fished.

Coho salmon are entering Thin Point Lagoon and fishing area is needed for fishermen to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-CB-60-93.

EFFECTIVE DATE: 6:00 p.m. September 1, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time 24 hours until 6:00 p.m. Thursday during the week of August 29 - September 4 in the Inner Port Heiden Section.

JUSTIFICATION: No commercial salmon fishing for coho salmon has occurred to date in the Inner Port Heiden Section due to market problems. A market is reported to be available during Wednesday and Thursday of this week. The 24 hour extension will allow fishermen to make up for the time lost and should have no large impact on the escapement due to the long period of no fishing prior to this date.

EMERGENCY ORDER NO. 4-FS-M-PM-32-93

EFFECTIVE DATE: 6:00 p.m. September 1, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section twenty-four hours from 6:00 p.m. Wednesday, September 1 until 6:00 p.m. Thursday, September 2.

-Continued-

JUSTIFICATION: Catches inside Ilnik Lagoon are good for this date. Effort in the Ilnik Section consists of two set gillnet operators. Commercial fishing activities were hindered yesterday because of high winds. It is appropriate at this time to extend the Ilnik Section twenty-four hours to provide reasonable opportunity to harvest coho salmon, and further gauge the coho run strength into the Ilnik River.

EMERGENCY ORDER NO. 4-FS-M-CB-61-93.

EFFECTIVE DATE: 6:00 p.m. September 2, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time 6 hours until 12:00 p.m. midnight Thursday during the week of August 29 - September 4 in the Inner Port Heiden Section.

JUSTIFICATION: Due to difficulties in getting a market, fishermen at Port Heiden did not start fishing commercially until 3:00 p.m. Wednesday. The tender will not be able to leave Port Heiden until about 2:00 a.m. Friday. A six hour extension of the fishing period will enable fishermen to take advantage of the night tide and get two full days of fishing this week. Coho catches are reportedly good.

EMERGENCY ORDER NO. 4-FS-M-CB-62-93.

EFFECTIVE DATE: September 5, 1993.

EXPLANATION: This emergency order reduces the commercial salmon fishing period 24 hours to 6:00 a.m. Monday until 12:00 p.m. midnight Tuesday in the Nelson Lagoon Section during the week of September 5 - 11.

JUSTIFICATION: The Nelson Lagoon coho run is well below average. The escapement into the Sapsuk River is estimated to be 5,500 which is roughly 60 -70 percent of what it should be at this time. A reduction in fishing time to two days in the coming week should substantially improve the escapement.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-PM-33-93

EFFECTIVE DATE: 6:00 a.m. September 5, 1993

EXPLANATION: This emergency order opens the commercial salmon fishing period in the Ilnik Section 6:00 a.m. Sunday, September 5 until 6:00 p.m. Wednesday, September 8.

JUSTIFICATION: Catches inside Ilnik Lagoon are good, indicating a strong coho salmon run. Effort in the Ilnik Section consists of two set gillnet operators. The run is expected to peak during the next week. No market is expected to be available after September 8, therefore, it is appropriate to open the Ilnik Section 24 hours earlier to provide opportunity to harvest coho salmon that will not be commercially fished post September 8. The coho run into Ilnik Lagoon extends well beyond September 8. It is anticipated that no commercial fishing activities will be directed on the late part of the run.

EMERGENCY ORDER NO. 4-FS-M-PM-34-93

EFFECTIVE DATE: 6:00 p.m. September 8, 1993

EXPLANATION: This emergency order extends the commercial salmon fishing period in the Ilnik Section 6:00 p.m. Wednesday, September 8 until 12:00 p.m. (midnight) Wednesday, September 8.

JUSTIFICATION: Catches inside Ilnik Lagoon are excellent, indicating a strong coho salmon run. Effort in the Ilnik Section consists of two set gillnet operators. Poor weather conditions hindered fishing effort earlier in the week. A six hour extension allows the gillnet operators to fish the full evenings tide. No market is expected to be available after today, therefore, it is appropriate to extend the Ilnik Section six hours to provide opportunity to harvest coho salmon that will not be commercially fished post September 8. The coho run into Ilnik Lagoon extends well beyond September 8. It is anticipated that no commercial fishing activities will be directed on the late part of the run.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-63-93.

EFFECTIVE DATE: September 9, 1993.

EXPLANATION: This emergency order closes the commercial salmon fishing season in the Nelson Lagoon Section after September 8.

JUSTIFICATION: The Nelson Lagoon coho salmon run is weaker than normal. The Sapsuk River escapement is estimated to be approximately 7,000 fish which is half of what it should be at this date. The September 7 harvest of 2,200 fish is less than half the average during the past five years for this date. The September 7 catch was dominated by females which indicates the run is nearing its end. The fishery should be closed at this time so that the lower end of the 20,000 to 30,000 Sapsuk River escapement goal can be reached.

EMERGENCY ORDER NO. 4-FS-M-CB-64-93.

EFFECTIVE DATE: September 13, 1993.

EXPLANATION: This emergency order establishes a 9:00 a.m. September 13 until 8:00 p.m. September 15 commercial salmon fishing period in the following locations:

- | | |
|--------------------------|---------------------------------|
| 1. Cold Bay Section | 6. Bechevin Bay Section |
| 2. Thin Point Section | 7. Urelia Bay Section |
| 3. Morzhovoi Bay Section | 8. Izembek - Moffet Bay Section |
| 4. Ikatan Bay Section | |
| 5. Unimak District | |

The closed waters of Lenard Harbør are changed back to as listed in the regulation book:

5AAC 09.310 is amended to read:

5AAC 09.310. FISHING SEASONS. Salmon may be taken as follows:

(b)(3) in the Swanson Lagoon Section from September 3 through September 5 and from September 3 through September 30 in the Izembek - Moffet Bay and Urelia Bay Sections.

JUSTIFICATION: The coho salmon run into Thin Point Cove appears strong and the escapement of over 3,000 fish is good for this date. The Urelia Bay catch of 1,100 coho (by seiners) during the September 3 - 5 fishing period indicated a normal run considering the

-Continued-

location is presently difficult to fish with seines. Except for the Swanson Lagoon Section whose coho run appears weak (and will not be open during Sept. 13 - 15), fishermen have not tested coho run strength in the balance of the lower Alaska Peninsula. Fishing time is needed to harvest the resource and test run strength.

The Lenard Harbor chum salmon run is over and the expanded closed waters are no longer necessary.

EMERGENCY ORDER NO. 4-FS-M-CB-65-93.

EFFECTIVE DATE: 8:00 p.m. September 15, 1993.

EXPLANATION: This emergency order extends commercial salmon fishing time 48 hours until 8:00 p.m. September 17 in the following locations:

- | | |
|--------------------------|---------------------------------|
| 1. Cold Bay Section | 6. Bechevin Bay Section |
| 2. Thin Point Section | 7. Uria Bay Section |
| 3. Morzhovoi Bay Section | 8. Izembek - Moffet Bay Section |
| 4. Ikatan Bay Section | |
| 5. Unimak District | |

JUSTIFICATION: High winds have prevented most fishing during September 13 and 14 in the western portion of the Alaska Peninsula Area. A 48 hour extension will allow fishermen to make up for time lost.

EMERGENCY ORDER NO. 4-FS-M-CB-66-93.

EFFECTIVE DATE: 9:00 a.m. September 17, 1993.

EXPLANATION: This emergency order reopens the commercial salmon fishing season in the Swanson Lagoon Section, establishes a 9:00 a.m. until 8:00 p.m. commercial salmon fishing period during September 17 in the Swanson Lagoon Section, and reinstates the closed waters listed in the regulation book.

JUSTIFICATION: The Swanson Lagoon Section was closed due to weak early coho catches and generally weak coho runs throughout the North Peninsula. However, coho harvests at nearby Uria Bay indicate a substantial run there and fishermen report seeing large numbers of coho in the Swanson Lagoon outlet. The water in Swanson Lagoon is presently too muddy to see fish from the air. It is possible that a salmon market in this area will no longer exist after September 17. An 11 hour fishing period on September 17 will give the fleet a brief chance to harvest salmon in an area that is normally open to fishing.

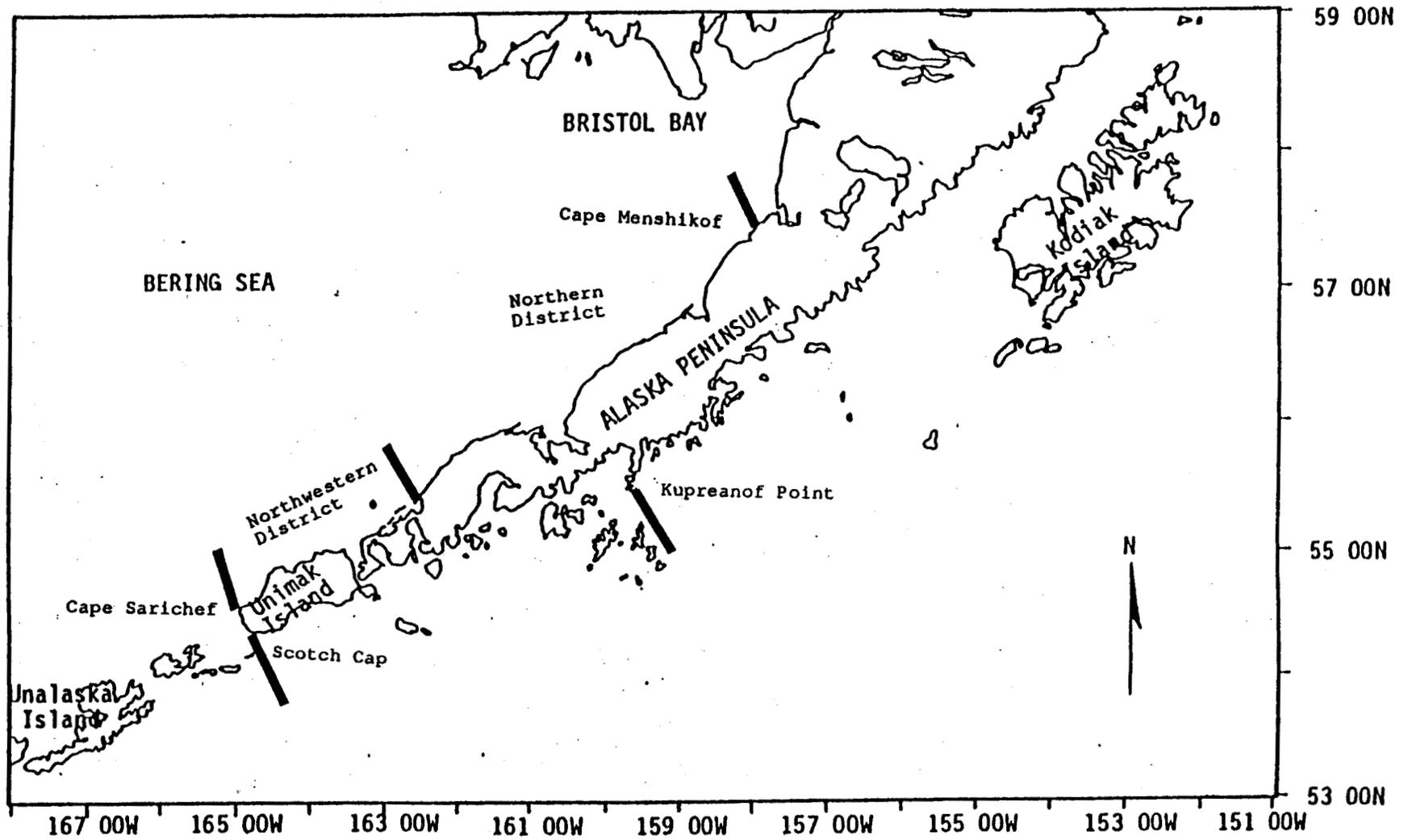


Figure 1. North and South Alaska Peninsula with North Peninsula districts depicted.

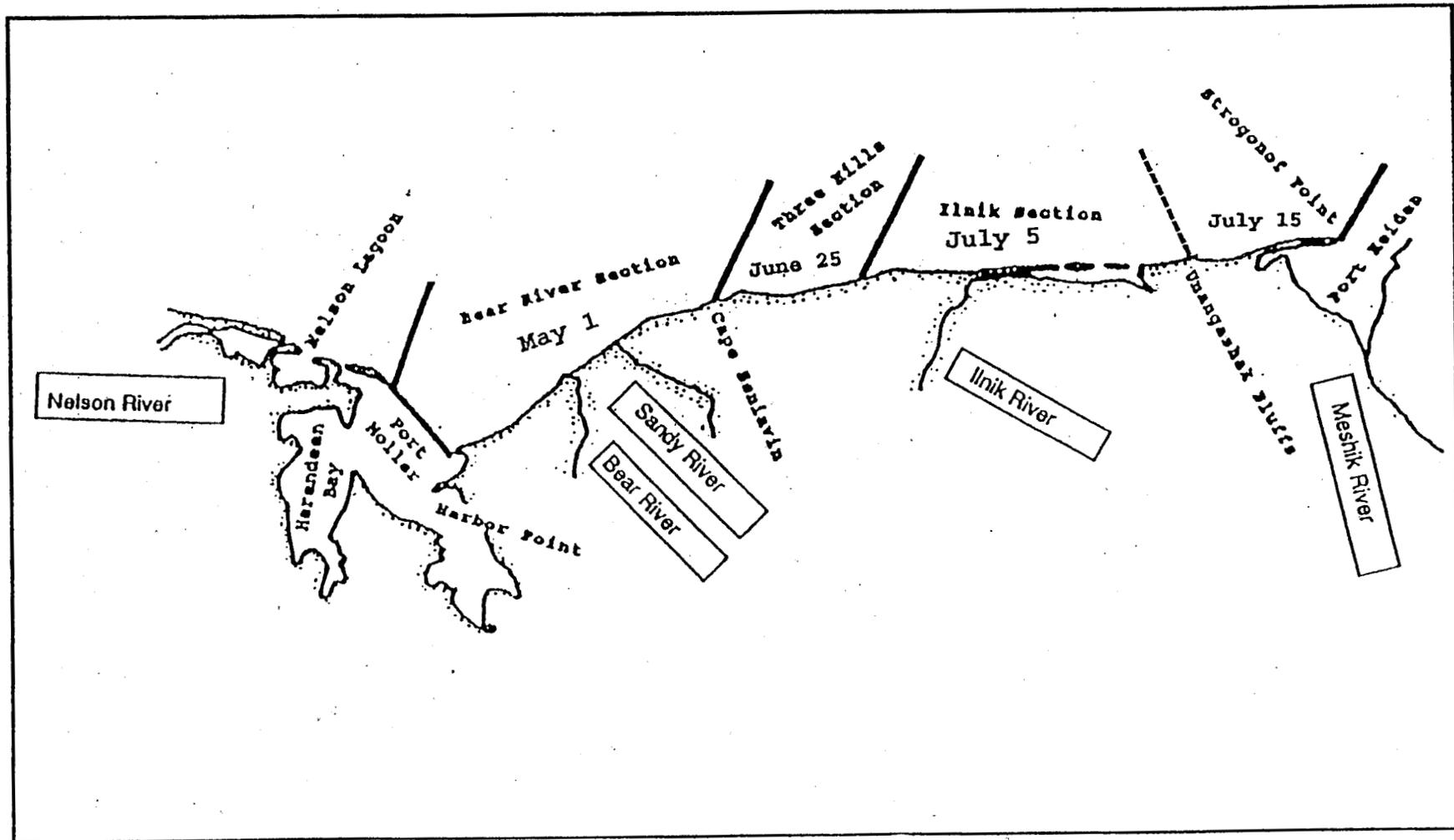


Figure 2. Nelson Lagoon to Strogonof Point reach, with district sections, commercial salmon season opening dates, and major sockeye salmon systems depicted.

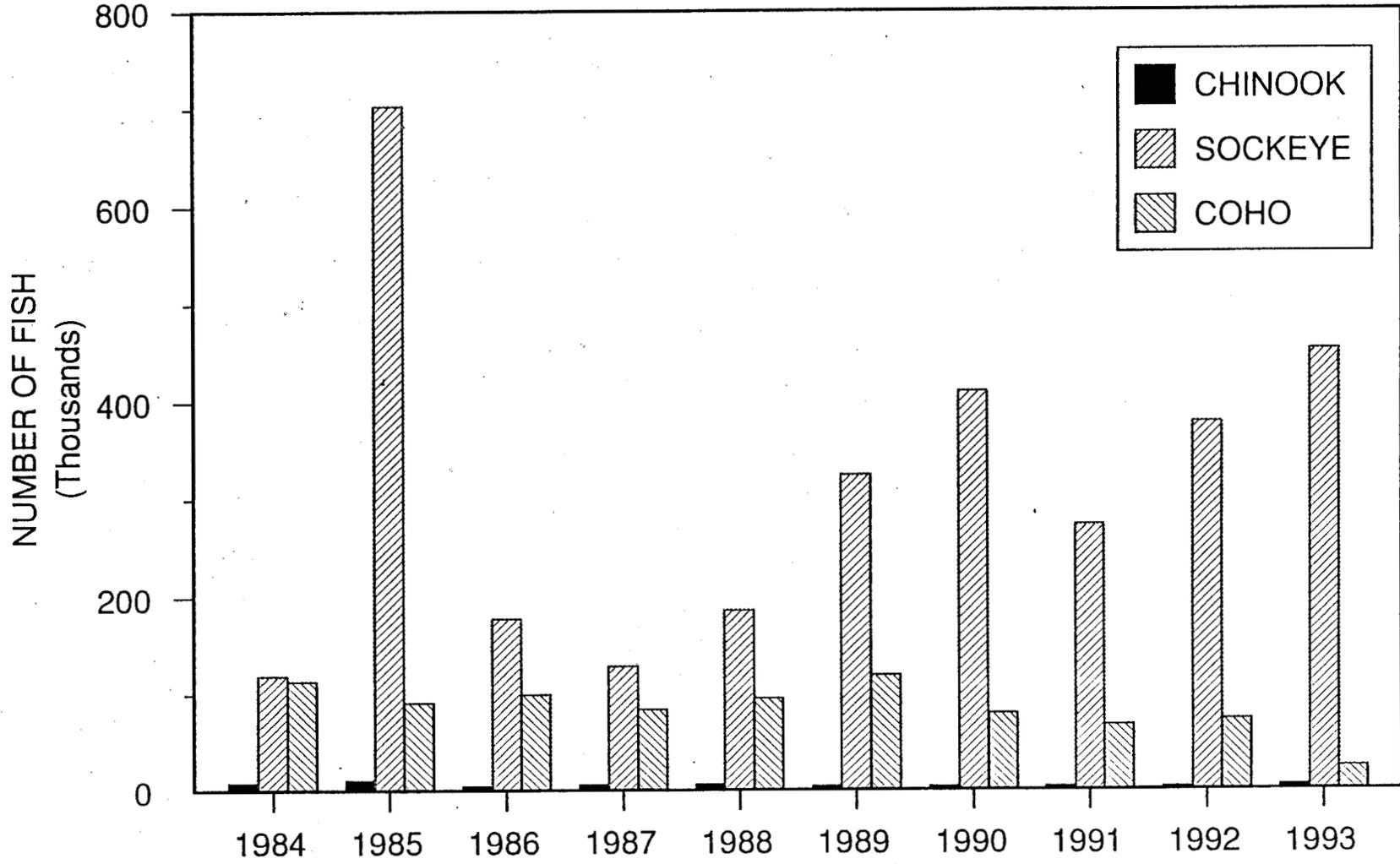


Figure 3. Nelson Lagoon commercial chinook, sockeye, and coho salmon harvest, 1984-93.

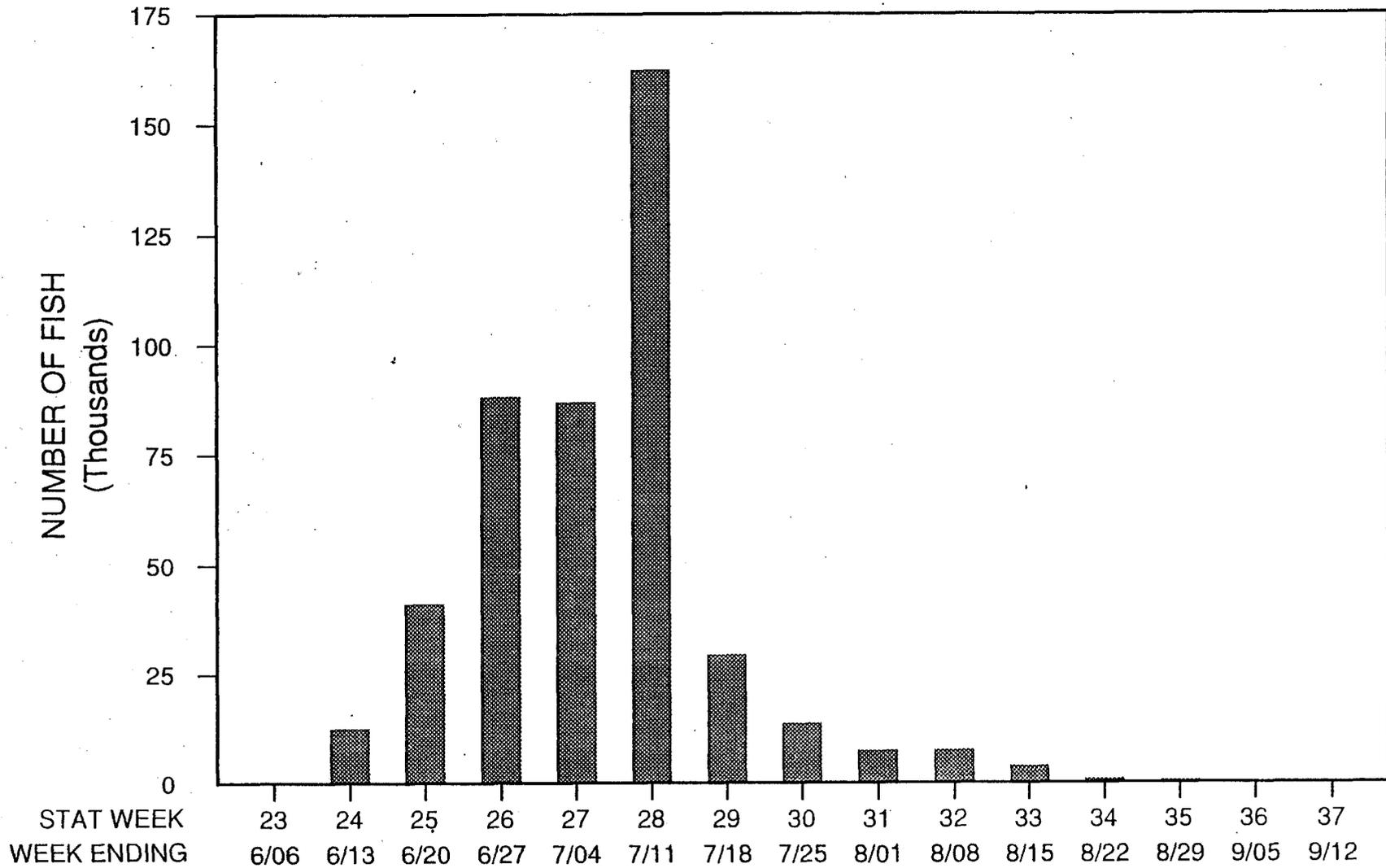


Figure 4. Nelson Lagoon commercial sockeye salmon harvest by week, 1993.

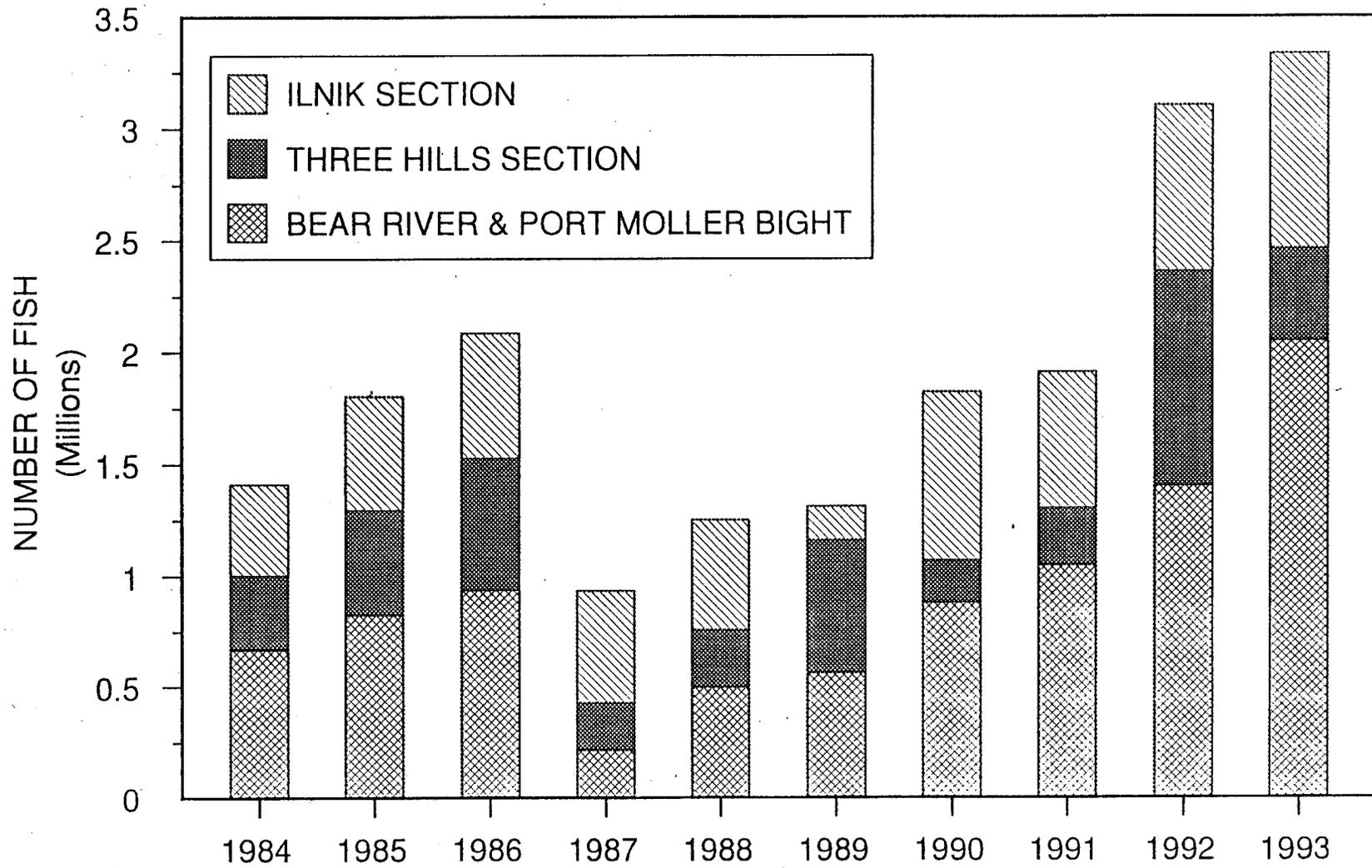


Figure 5. Port Moller to Strogonof Point commercial sockeye salmon harvest, 1984-93.

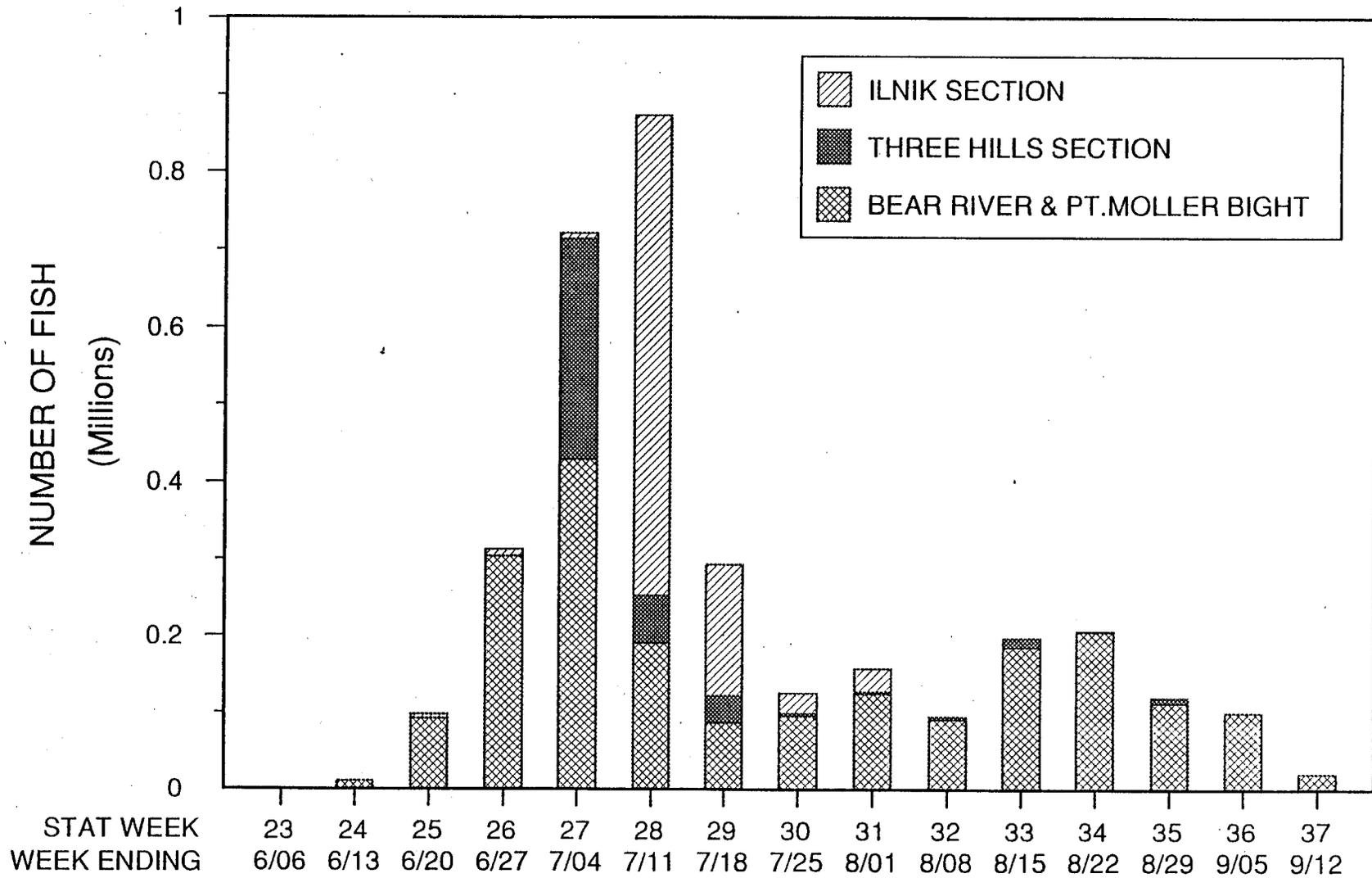


Figure 6. Port Moller to Strogonof Point commercial sockeye salmon harvest by week, 1993.

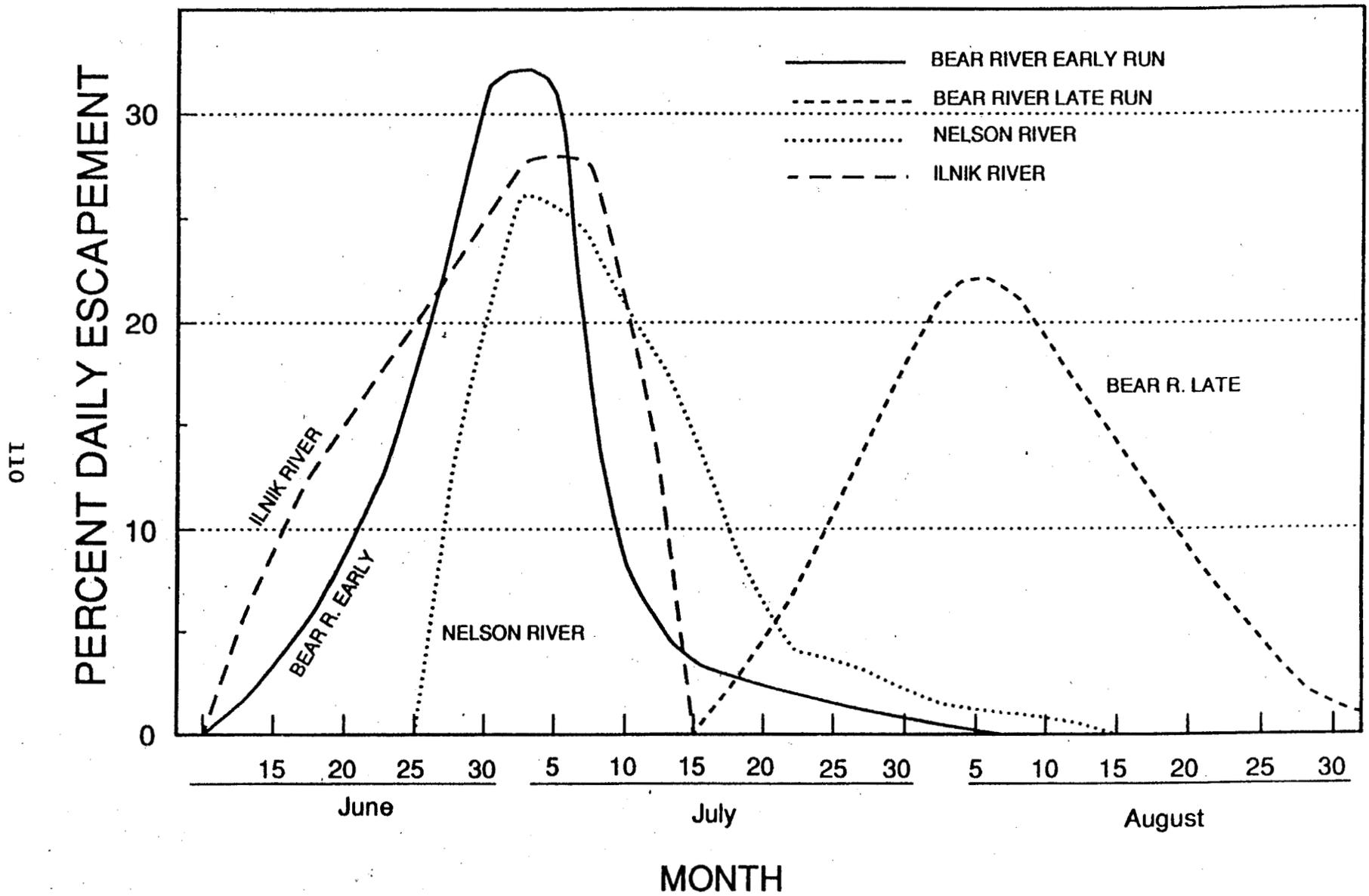


Figure 7. Approximate run timing of selected major North Peninsula sockeye salmon stocks based on escapement schedules.

The Alaska Department of Fish and Game administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972.

If you believe you have been discriminated against in any program, activity, or facility, or if you desire further information please write to ADF&G, P.O. Box 25526, Juneau, AK 99802-5526; U.S. Fish and Wildlife Service, 4040 N. Fairfax Drive, Suite 300 Webb, Arlington, VA 22203 or O.E.O., U.S. Department of the Interior, Washington DC 20240.

For information on alternative formats for this and other department publications, please contact the department ADA Coordinator at (voice) 907-465-6077, (TDD) 907-465-3646, or (FAX) 907-465-6078.