

NUMBER OF SALMON SYSTEMS AND DISTRIBUTION OF
ESCAPEMENTS IN THE ALASKA PENINSULA AND ALEUTIAN
ISLANDS MANAGEMENT AREAS, 1986-91

By

Robert L. Murphy

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TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLES	i
LIST OF FIGURES	i
LIST OF APPENDICES	ii
ABSTRACT	1
INTRODUCTION	2
METHODS	6
RESULTS AND DISCUSSION	7
South Peninsula	7
Aleutian Islands	13
North Peninsula	13
LITERATURE CITED	21
APPENDICES	22

LIST OF TABLES

<u>Tables</u>	<u>Page</u>
1. Estimated total salmon escapement by species in the South Peninsula, 1986-91	11
2. Estimated total salmon escapement by species and district in the South Peninsula, 1986-91	12
3. Estimated total salmon escapement by species in the North Peninsula, 1986-91	18
4. Estimated total salmon escapement by species and district in the North Peninsula, 1986-91	19

LIST OF FIGURES

<u>Figures</u>	<u>Page</u>
1. Map of the Alaska Peninsula with salmon fishing districts on the South and North Peninsula depicted	3
2. Map of the Aleutian Islands Management Area with salmon fishing districts shown	4
3. Number of salmon systems by species in the South Peninsula	8
4. Number of salmon systems by species and district in the South Peninsula	9
5. Number of salmon systems by species in the Aleutian Islands Management Area	14
6. Number of salmon systems by species in the North Peninsula	15
7. Number of salmon systems by species and district in the North Peninsula	16

LIST OF APPENDICES

<u>Appendix</u>	<u>Page</u>
A.1. Sockeye salmon peak escapement by district and stream for the South Peninsula, 1986-91	22
A.2. Pink salmon peak escapement by district and stream for the South Peninsula, 1986-91	26
A.3. Chum salmon peak escapement by district and stream for the South Peninsula, 1986-91	30
A.4. Coho salmon peak escapement by district and stream for the South Peninsula, 1986-91	34
A.5. Chinook salmon peak escapement by district and stream for the North Peninsula, 1986-91	38
A.6. Sockeye salmon peak escapement by district and stream for the North Peninsula, 1986-91	40
A.7. Pink salmon peak escapement by district and stream for the North Peninsula, 1986-91	42
A.8. Chum salmon peak escapement by district and stream for the North Peninsula, 1986-91	44
A.9. Coho salmon peak escapement by district and stream for the North Peninsula, 1986-91	46

ABSTRACT

There are approximately 582 salmon systems within the Alaska Peninsula and Aleutian Islands Management Areas. The South Peninsula has 185 salmon systems; chinook salmon are not present in any systems, while sockeye salmon are found in 23, pink salmon 110, chum salmon 72, and coho salmon in 57 systems. Within the North Peninsula there are 62 systems with chinook salmon present in 10 systems, sockeye salmon 32, pink salmon 11, chum salmon 38, and coho salmon 13. In the Aleutian Islands, there are at least 335 systems; chinook salmon are not found in any systems, while 45 systems have sockeye salmon, 319 have pink salmon, 11 have chum salmon, and 35 have coho salmon. Annual 1986-91 escapements for the South Peninsula have averaged 104,000 sockeye, 2.6 million pink, 554,000 chum, and 32,000 coho salmon, while North Peninsula escapements have averaged 16,000 chinook, 908,000 sockeye, 25,000 pink, 478,000 chum, and 181,000 coho salmon.

KEY WORDS: Alaska Peninsula, Aleutian Islands, Pacific salmon, escapement, streams

INTRODUCTION

Escapement data are used to monitor commercial fisheries throughout the State of Alaska. On the Alaska Peninsula, the major sockeye salmon systems have weirs installed which provides for timely escapement enumeration and effective in-season management. On the systems that do not have weirs, aerial surveys are needed to obtain the necessary escapement information. Most of the commercial salmon fisheries on the Alaska Peninsula target for sockeye salmon. Most of the surveys are done post-season. In-season aerial surveys are used to gauge run strength and direct fisheries.

The Alaska Peninsula and Aleutian Islands Management Areas are divided into three areas: (1) the South Peninsula, consisting of the Pacific Ocean coastal waters from Kupreanof Point west to Scotch Cap, (2) the North Peninsula, consisting of Bering Sea coastal waters from Cape Menshikof west to Cape Sarichef, and (3) the Aleutian Islands, containing the Pacific Ocean and Bering Sea coastal waters west of Unimak Pass to the international dateline (Figures 1,2). The North and South Peninsula are within the Alaska Peninsula Management Area. The South Peninsula is comprised of four districts: the Southeastern, South Central, Southwestern, and Unimak Districts. The North Peninsula consists of the Northwestern and Northern Districts. The Aleutian Islands Management Area consists of four districts: Akutan, Unalaska, Umnak, and Attu.

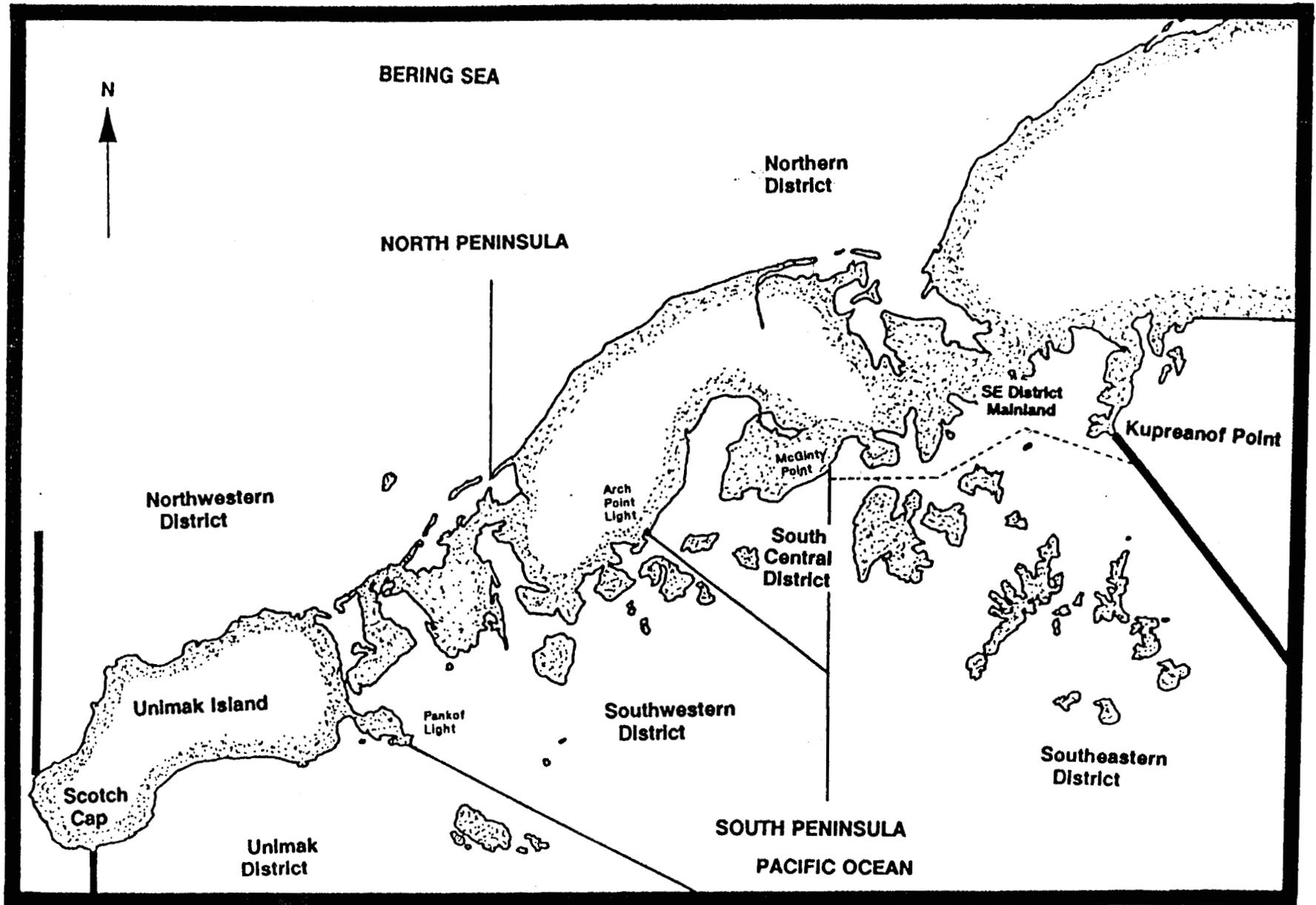


Figure 1. Map of the Alaska Peninsula with salmon fishing districts on the South and North Peninsula depicted.

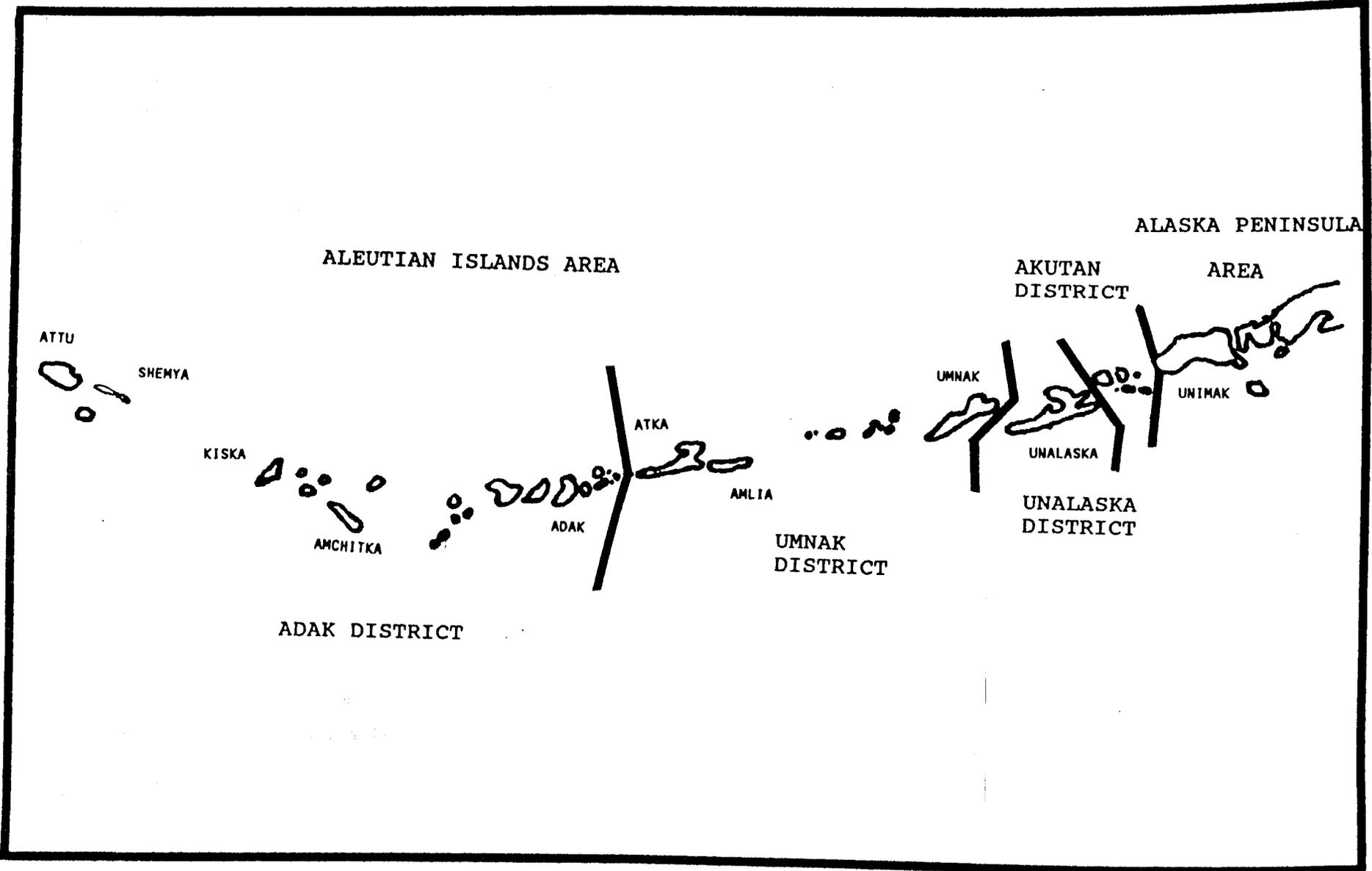


Figure 2. Map of the Aleutian Islands Management Area with salmon fishing districts shown.

Salmon escapement in the Alaska Peninsula and Aleutian Islands Management Areas are monitored by aerial and foot surveys and weirs. Because of the remote location of most systems, most of the salmon spawning systems are monitored by aerial surveys. Weirs are used for escapement monitoring at Orzinski River on the South Peninsula, and Nelson, Bear, and Ilnik Rivers on the North Peninsula. The Orzinski Lake weir, located within the Southeastern District, has been operating since 1990. The Bear River and Nelson River weirs, both located on the in the Northern District, have been operating successfully prior to 1986. The Ilnik weir, also located in the Northern District, was first installed in 1990, was not successful at enumerating fish. Therefore, only data from 1991 is available from the Ilnik weir.

This report documents the number of salmon systems and estimated total escapement (ETE) for the Alaska Peninsula Management Area from 1986-91. A system, in this report, is defined as an individual freshwater body (does not include tributaries of a major system) that flows directly into saltwater. The number of salmon in the system may range from several fish to hundreds of thousands fish. Because remoteness, weather conditions, and the economic importance of the fisheries, only limited data is available on the Aleutian Islands Management Area. Escapement data for the Aleutian Islands Management Area will not be presented because of its limitations. Data in this report will provide a base for evaluating escapement objectives for all salmon species. This

report is intended as a reference document, and therefore interpretation and discussion of the data are limited.

METHODS

Pink and chum salmon total escapement were calculated for surveyed streams using aerial survey counts and an assumed average stream life of 15 d for each species, except for Swanson Lagoon chum salmon and most Southeast District Mainland pink salmon which have an assumed average stream life of 7 d (Cousens et al. 1982; Johnson and Barrett 1988; McCullough 1989). Chinook escapement for surveyed streams was calculated by multiplying the peak escapement count by 1.92 (Neilson and Geen 1981; Barrett et al. 1985). Sockeye escapement (from aerial and foot surveys) were calculated by multiplying the peak escapement count by 1.25 for shallow and clear-water streams. Other systems that are not shallow and clear-water were expanded by multiplying the peak escapement count by 2.0 (Barrett 1972; Barrett et al. 1985). Total coho escapement for surveyed streams was determined from data in Minard (1986) by multiplying the peak count by 2.4. No attempt was made to estimate escapement into systems not monitored by aerial or foot surveys in a given year, and therefore, the estimated escapement may underestimate the actual escapement. Escapement estimates of chinook, sockeye, pink, and chum salmon in the Alaska Peninsula were considered reliable. Coho escapements have, except in 1990, been poorly monitored due to budget restrictions and survey conditions in the fall. However, in 1990, sufficient funds were

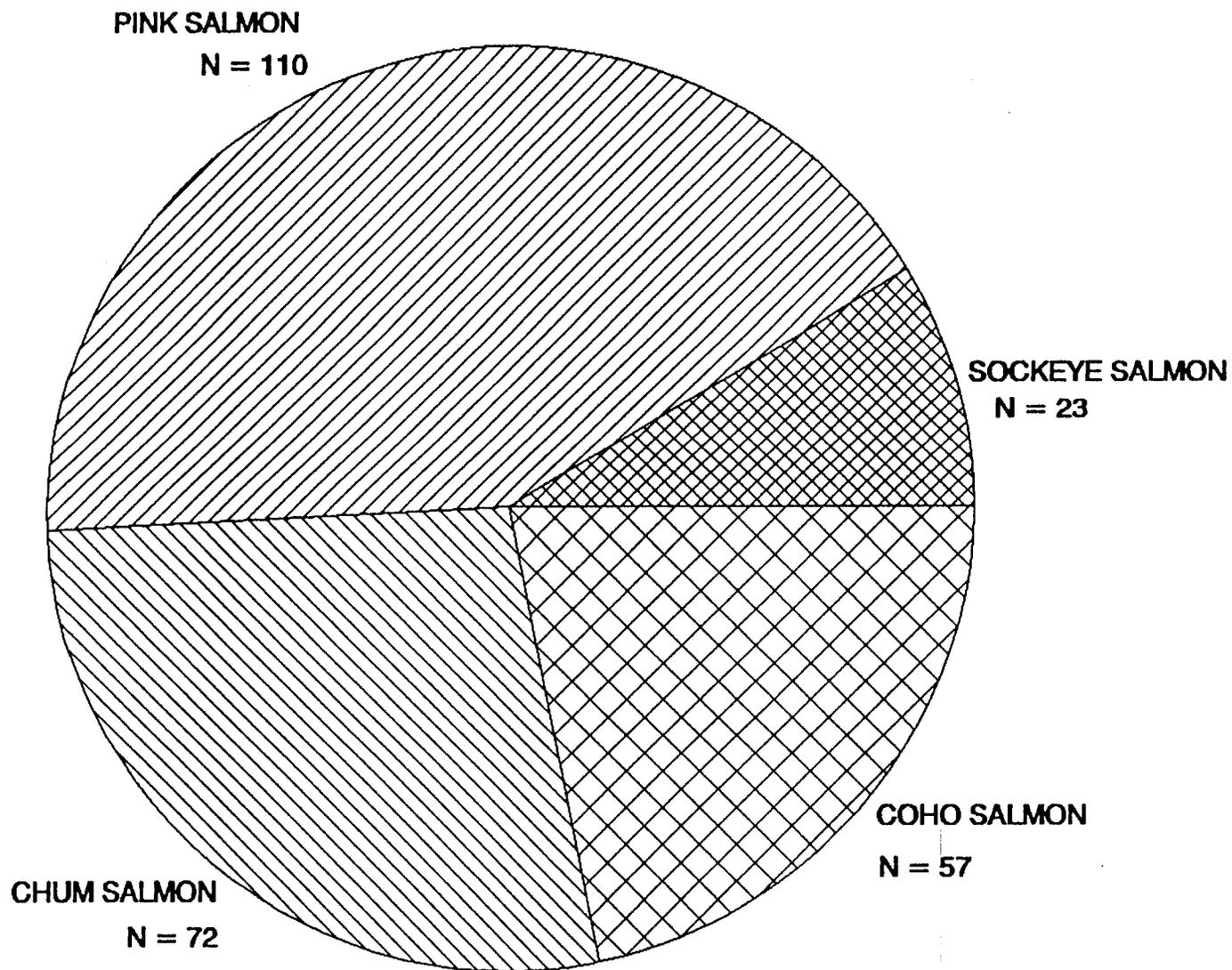
available for extensive aerial surveys in the Alaska Peninsula. In years other than 1990, coho estimates are probably underestimates because of the limited surveying that was conducted. Peak escapement counts by species and district from 1986-91 are listed in the Appendix.

RESULTS AND DISCUSSION

The Alaska Peninsula Management Area has about 247 salmon streams; pink salmon and chum salmon are found in approximately one-half of these systems, while coho and sockeye are found in one-third and one-fifth of the streams, respectively. The Aleutian Islands Management Area has 335 known salmon systems which are mainly pink salmon systems. The most productive streams are in the Alaska Peninsula Management Area, however, the Aleutian Islands Management Area has more productive pink salmon systems.

South Peninsula

There are 185 salmon systems located on the South Peninsula, of which there are no documented cases of chinook salmon escapement in South Peninsula streams (Figure 3). Sockeye salmon are found in 12% (23) of the systems with the majority (12) of these systems being found within the Southwestern District, Unimak District (5), and Southeastern and South Central Districts with three systems in each district (Figure 4). Pink salmon are found in 60% (110) of the systems, with the Southwestern (44) and Southeastern (41)



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Figure 3. Number of salmon systems by species in the South Peninsula.

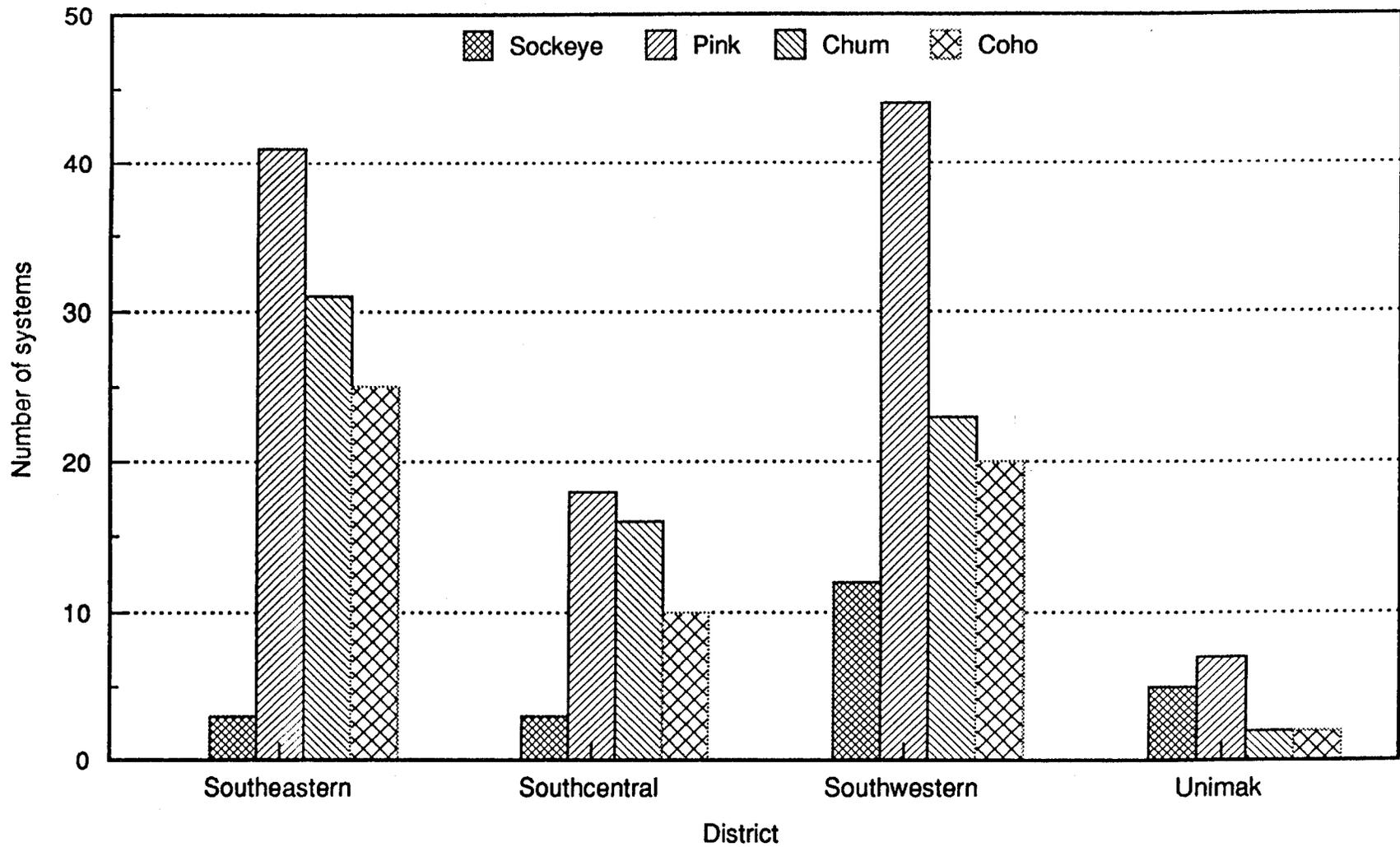


Figure 4. Number of salmon systems by species and district in the South Peninsula.

Districts accounting for 46% of all pink salmon systems, while the South Central (18) and Unimak (7) Districts have fewer pink salmon systems (Figures 3,4). Chum salmon are found in 39% (72) of the systems, with the Southeastern (31), Southwestern (23), and South Central (16) Districts containing 97% of all the chum salmon systems (Figures 3,4). Coho salmon systems are found in 57 systems (Figure 3), predominantly in the Southeastern (25) and Southwestern (20) Districts, with fewer systems in the South Central (10) and Unimak (2) Districts (Figure 4).

From 1986 through 1991, estimated total sockeye escapement averaged 104,000 fish (Table 1). During this time, the Southeastern District averaged 28,000 fish, South Central District averaged 5,000 fish, Southwestern District averaged 66,000 fish, and the Unimak District averaged 4,000 fish (Table 2). The highest sockeye total escapement for all districts combined occurred in 1991 (153,000) and the lowest in 1987 (81,000; Table 1).

Pink salmon escapement within all districts from 1986-91 averaged 2,633,000 fish (Table 1). Total escapement in the South Central, Southeastern, and Southwestern Districts averaged 1,009,000, 844,000, and 768,000 salmon, respectively (Table 2). Only minor pink salmon escapement occurred in the Unimak District (11,000; Table 2). The greatest escapement for all four districts occurred in 1988.

Table 1. Estimated total salmon escapement by species in the South Peninsula, 1986-91.

District	Number of Salmon				
	Chinook	Sockeye	Pink	Chum	Coho ¹
1986	0	95,324	2,072,821	568,467	3,852
1987	0	80,588	1,742,856	651,877	2,640
1988	0	85,497	4,195,660	588,779	19,992
1989	0	95,083	1,997,046	342,459	37,733
1990	0	114,233	2,021,975	445,502	124,176
1991	0	153,143	3,776,966	726,276	2,700
Average	0	103,978	2,632,554	553,893	31,849

¹Coho escapement data for 1986, 1987, 1988, 1989, and 1991 are based on limited surveys.

Table 2. Estimated total salmon escapement by species and district in the South Peninsula, 1986-91.

District	Number of Salmon				
	Chinook	Sockeye	Pink	Chum	Coho ¹
Southeastern					
1986	0	29,469	639,915	130,816	0
1987	0	25,575	692,037	154,207	0
1988	0	24,377	1,301,149	90,397	7,032
1989	0	24,075	563,105	103,997	10,080
1990	0	21,925	569,434	114,696	42,168
1991	0	44,093	1,300,794	276,545	1,140
Average	0	28,252	844,406	145,110	10,190
South Central					
1986	0	8,475	846,182	105,774	0
1987	0	4,363	790,420	169,267	1,680
1988	0	5,500	1,275,564	225,623	2,640
1989	0	3,188	735,222	94,107	6,960
1990	0	3,468	694,967	137,082	19,320
1991	0	6,450	1,712,655	170,262	0
Average	0	5,240	1,009,168	150,353	5,100
Southwestern					
1986	0	47,540	573,457	331,477	3,840
1987	0	50,650	260,099	327,910	960
1988	0	55,620	1,591,960	271,446	10,320
1989	0	67,820	698,103	144,034	20,693
1990	0	74,040	724,248	181,897	56,448
1991	0	102,600	757,897	278,929	1,560
Average	0	66,378	767,627	255,945	15,637
Unimak					
1986	0	9,840	13,267	400	12
1987	0	0	300	493	0
1988	0	0	26,987	1,313	0
1989	0	0	616	321	0
1990	0	14,800	19,540	710	960
1991	0	0	5,620	540	0
Average	0	4,107	11,055	630	162

¹Coho escapement data for 1986, 1987, 1988, 1989, and 1991 are based on limited surveys.

Total escapement for chum salmon averaged 554,000 fish between 1986-91, ranging from 342,000 (1989) to 726,000 (1991; Table 1). Escapement was usually the greatest in the Southwestern District (256,000), followed by the South Central (150,000) and Southeastern (145,000) Districts (Table 2). Chum salmon escapement in the Unimak District was negligible (600; Table 2).

Coho salmon total escapement ranged from about 2,700 (1987 and 1991) to 124,000 (1990); the average during 1986-91 of 32,000 fish (Table 1). The Southwestern (16,000) and Southeastern (10,000) Districts averaged the highest escapements (Table 2).

Aleutian Islands

The Aleutian Islands Management Area contains 335 salmon systems. Pink salmon are found in 95% of the systems (319), while sockeye (45) and coho (35) salmon systems are found in 13% and 11% of the systems; chum salmon are found in 3% (11; Figure 5).

North Peninsula

In the North Peninsula, there are 62 salmon systems, with chinook salmon being found in 16% of these systems, sockeye salmon 52%, pink salmon 18%, chum salmon 61%, and coho salmon 21% (Figure 6). Almost all the chinook salmon systems are in the Northern District (Figure 7). The Northern and Northwestern Districts have 18 and 14 chum salmon systems, respectively (Figure 7). Pink salmon are

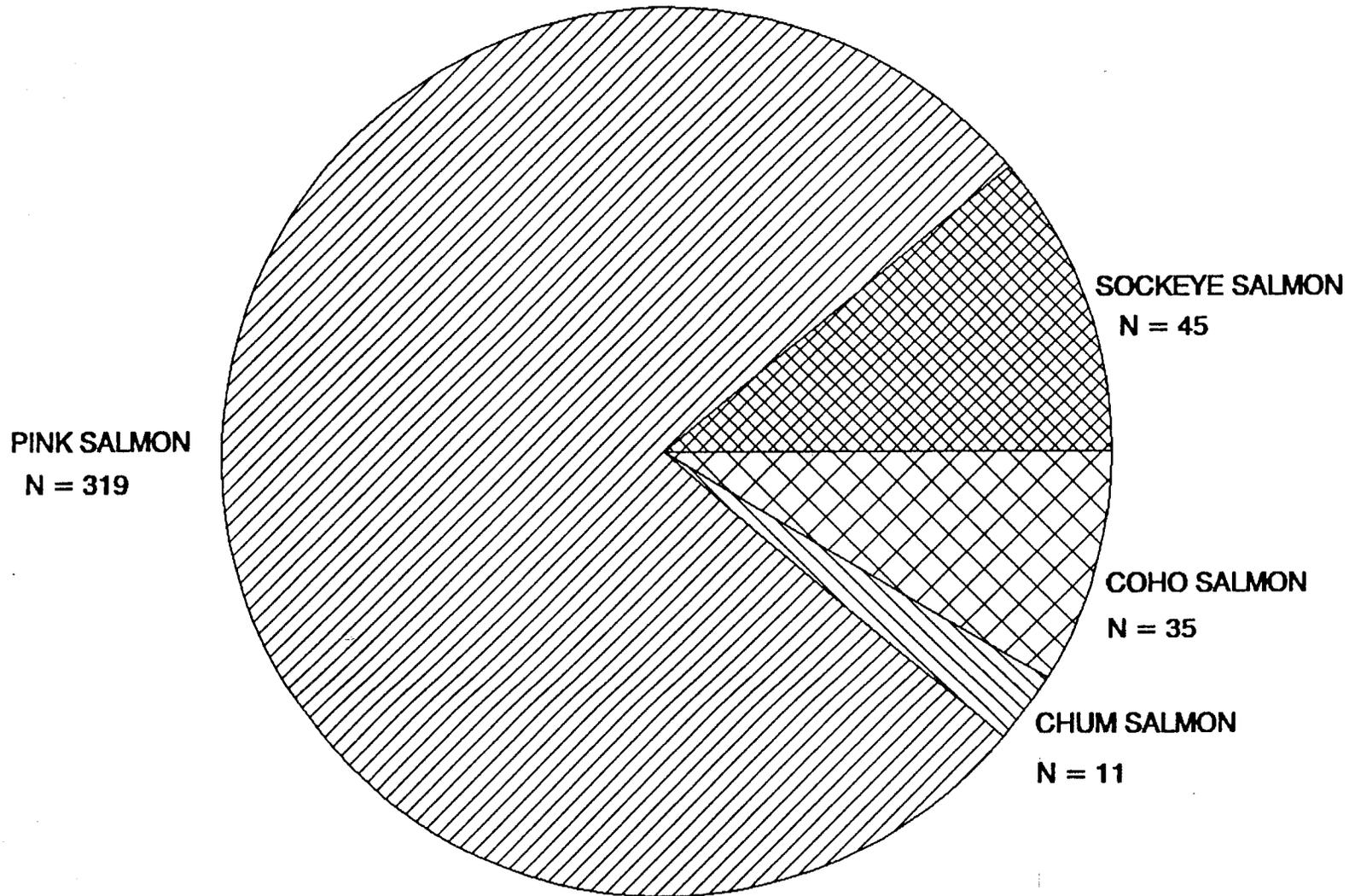


Figure 5. Number of salmon systems by species in the Aleutian Islands Management Area.

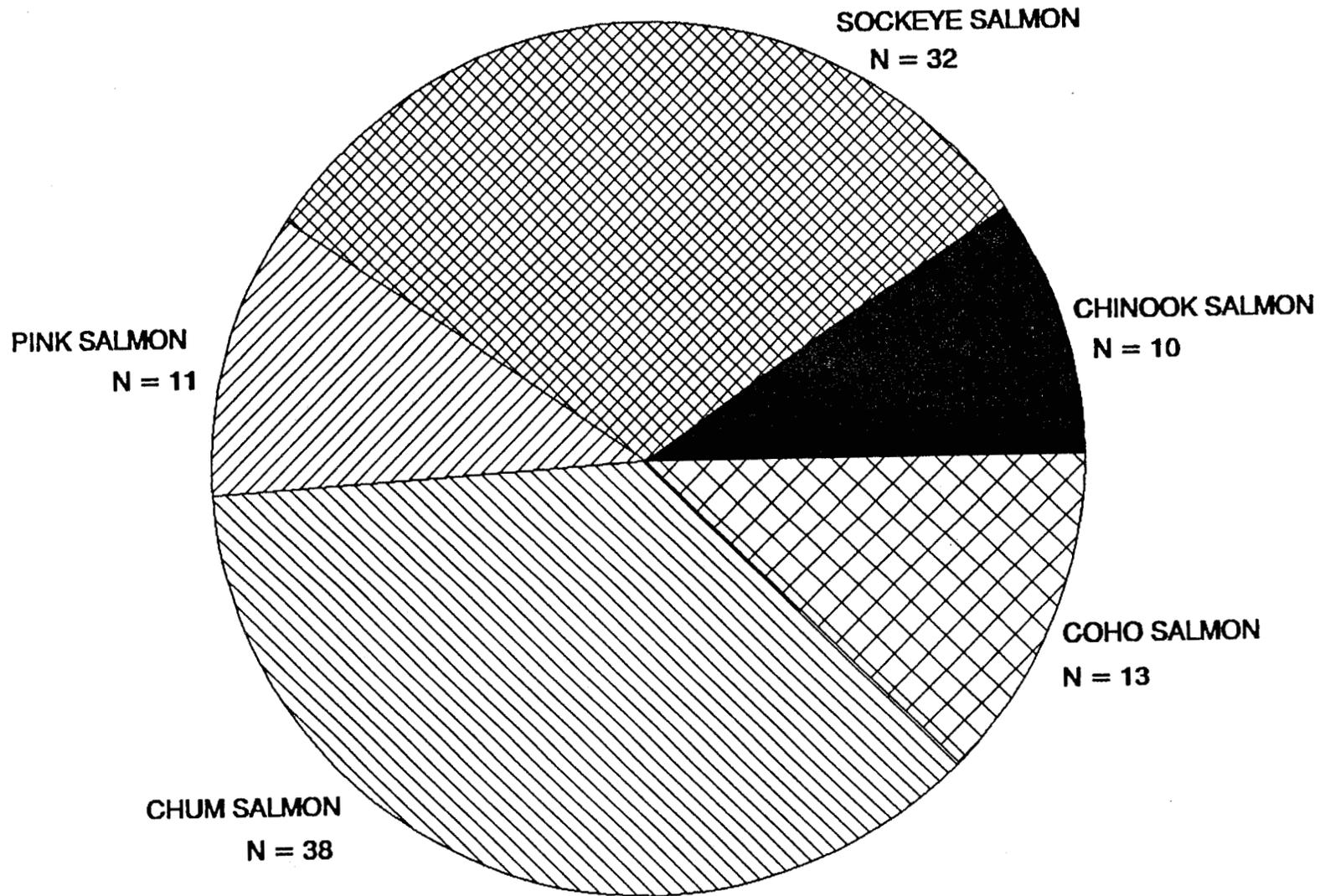


Figure 6. Number of salmon systems by species in the North Peninsula.

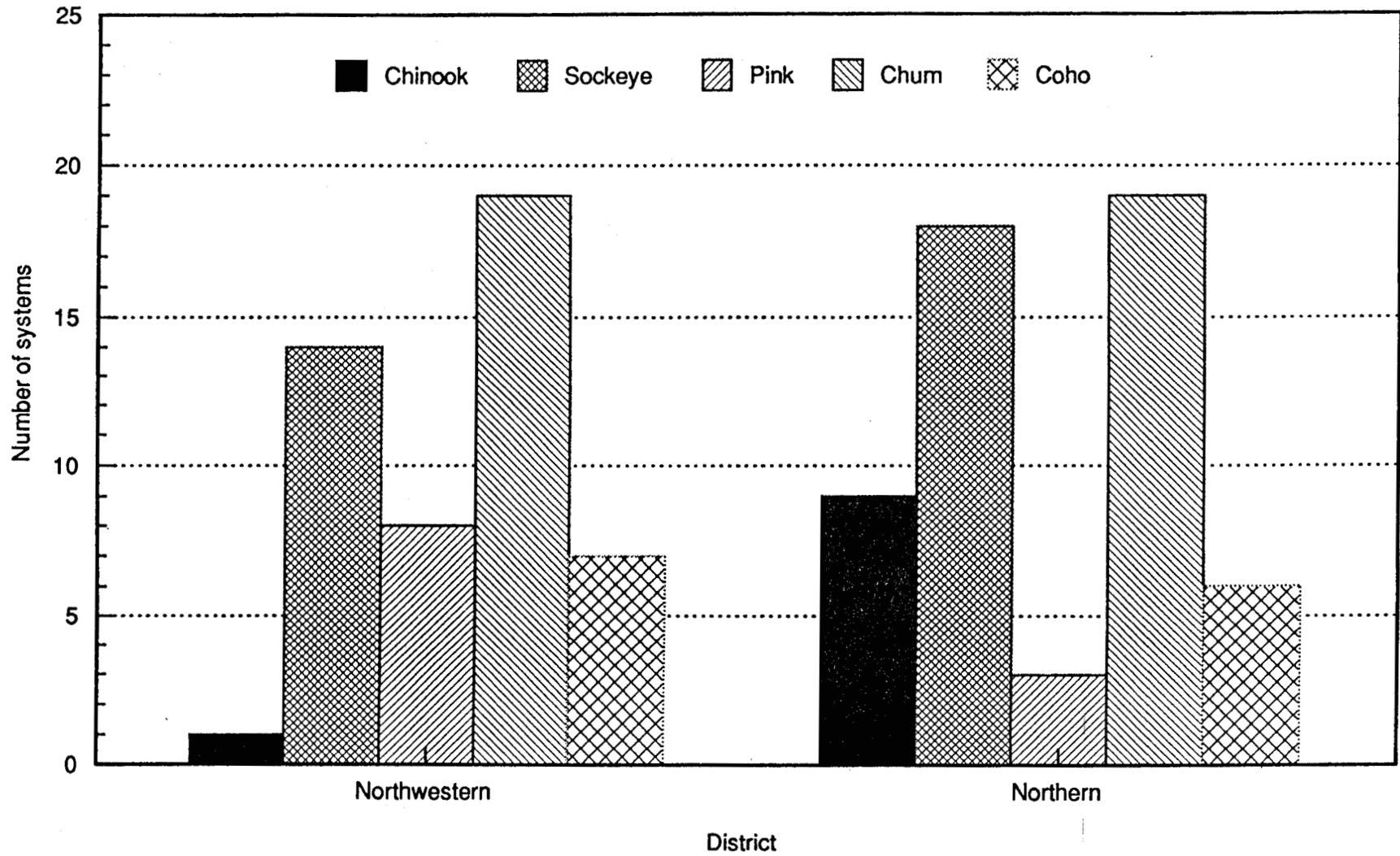


Figure 7. Number of salmon systems by species and district in the North Peninsula.

mainly found in the Northwestern District (8) with only minor runs usually occurring in the Northern District (Figure 7). Chum salmon systems are found in equal abundance (19) in both districts (Figure 7). Coho salmon are also found in similar abundances, seven and six, in the Northwestern and Northern Districts, respectively (Figure 7).

Estimated total chinook salmon escapement from 1986-91 was 16,000 fish, ranging from 9,000 in 1989 to 23,000 in 1986 (Table 3). Almost all of the chinook salmon escapement occurs in the Northern District. Since 1986, there has not been any chinook salmon escapement in the Northwestern District in four of the past six years (Table 4).

The majority of the sockeye salmon escapement from 1986-91 occurred in the Northern District (809,000), with an average for both districts combined of 908,000 fish (Table 3). Escapement in the Northwestern District ranged from 60,000 (1987) to 143,000 (1991), while the Northern District ranged from 574,000 in 1987 to 1,266,000 in 1991 (Table 4).

Pink salmon escapement in the North Peninsula has been low, especially in the Northern District where the 1986 to 1991 average of 20,000 (Table 4) represents a peak escapement in 1990 of 117,000 fish in Herendeen Bay (Murphy 1991). Pink salmon systems in the Northwestern District averaged 13,000, with a range from 1,000 (1987) to 32,000 (1988; Table 4).

Table 3. Estimated total salmon escapement by species in the North Peninsula, 1986-91.

District	Number of Salmon				
	Chinook	Sockeye	Pink	Chum	Coho ¹
1986	23,319	712,313	0	297,032	158,640
1987	18,729	633,911	0	578,298	170,496
1988	17,244	679,603	418	858,958	159,907
1989	9,274	861,565	1,195	238,707	221,793
1990	11,234	1,150,320	148,556	398,494	200,800
1991	17,126	1,409,078	1,533	495,038	176,920
Average	16,154	907,798	25,284	477,755	181,426

¹Coho escapement data for 1986, 1987, 1988, 1989, and 1991 are based on limited surveys.

Table 4. Estimated total salmon escapement by species in the North Peninsula, 1986-91.

District	Species				
	Chinook	Sockeye	Pink	Chum	Coho ¹
Northwestern					
1986	0	84,375	9,842	203,033	5,286
1987	0	59,565	1,025	413,772	25,200
1988	192	64,990	32,139	711,858	0
1989	0	98,125	3,212	158,801	36,480
1990	58	142,035	31,954	251,425	20,640
1991	192	143,291	1,433	366,581	200
Average	74	98,730	13,268	350,912	14,634
Northern					
1986	23,319	627,938	0	93,999	158,640
1987	18,729	574,346	0	164,526	170,496
1988	17,244	614,613	418	147,100	159,907
1989	9,274	763,440	1,195	79,906	221,793
1990	11,177	1,008,285	116,603	147,069	200,160
1991	16,934	1,266,078	100	128,457	176,720
Average	16,112	809,215	19,733	126,843	181,286

¹Coho escapement data for 1986, 1987, 1988, 1989, and 1991 are based on limited surveys.

Chum salmon escapement in the Northwestern District averaged 351,000 fish, ranging from 159,000 (1989) to 712,000 (1988; Table 4). Escapement in the Northern District has not fluctuated dramatically, with the low escapement of 80,000 in 1989 and a high of 165,000 in 1987 (Table 4).

The majority of the coho escapement occurs in the Northern District. The low and high escapements of 159,000 and 222,000, and averaging 181,000, occurred in 1986 and 1989, respectively (Table 4). The Northwestern District averaged only 15,000 fish, ranging from 0 (1988) to 36,000 (1989; Table 4).

LITERATURE CITED

- Barrett, B.M. 1972. 1972 Tustumena sockeye salmon research report. Alaska Department of Fish and Game, Division of Commercial Fisheries (Region II unpublished report), Soldotna.
- Barrett, B.M., F.M. Thompson, and S.N. Wick. 1985. Adult anadromous fish investigations: May-October 1984. Alaska Department of Fish and Game, Susitna Hydro Aquatic Studies, Report 6. Prepared for the Alaska Power Authority, Anchorage.
- Cousens, N.B.F., G.A. Thomas, C.G. Swann, and M.C. Healey. 1982. A review of salmon escapement estimation techniques. Canadian Journal of Fisheries and Aquatic Sciences. Technical Report 1108. Nanaimo, British Columbia, Canada.
- Johnson, B.A., and B.M. Barrett. 1988. Estimation of salmon escapement based on stream survey data: a geometric approach. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K88-35, Kodiak.
- McCullough, J.N. 1989. Alaska Peninsula-Aleutian Islands Area catch and escapement statistics, 1988. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K89-13, Kodiak.
- Minard, R.E. 1986. Calibration of aerial surveys and determination of streamlife for coho salmon (*O. kisutch*) spawning in the Gechiak River. Presented at the Bristol Bay Coho Salmon Workshop, February 4, 1986. Alaska Department of Fish and Game, Division of Commercial Fisheries, Dillingham.
- Murphy, R.L. 1991. Alaska Peninsula and Aleutian Islands Management catch, escapement, and run statistics, 1990. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 91-12, Juneau.
- Neilson, J.D., and G.H. Geen. 1981. Enumeration of spawning salmon from spawner residence time and aerial counts. Transactions of the American Fisheries Society 110:554-556.

Appendix A.1. Sockeye salmon peak escapement by district and stream for the South Peninsula, 1986-1991.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
SOUTHEASTERN DISTRICT							
281-35.07	Bluff Point	0	Not Surveyed	0	Not Surveyed	0	0
281-35.06	Boulder Bay	0	0	0	0	0	0
281-35.05	Fox Bay	0	0	0	0	0	0
281-35.04	Fox Bay	0	0	0	0	0	0
281-35.02	Fox Bay	0	0	0	0	0	0
281-34.08	Island Bay	0	0	0	0	0	0
281-34.07	Island Bay	0	0	0	0	0	0
281-34.06	Island Bay	0	0	0	0	0	0
281-34.05	Island Bay	0	0	0	0	0	0
281-34.04	Unnamed	Not Surveyed	0	0	0	0	0
281-34.03	Stonehouse	0	0	0	0	0	0
281-34.02	Osterback	0	0	0	0	0	0
281-34.01	Granville-Portage Inlet	0	0	0	0	0	0
281-33.05	Stepovak River	0	0	0	0	0	0
281-33.06	Stepovak Flats	Not Surveyed	0	Not Surveyed	Not Surveyed	0	0
281-33.04	Big River	0	0	0	0	0	0
281-33.03	Louie's Corner	0	0	0	0	0	0
281-33.02	Ramsey Bay	Not Surveyed	0	0	0	0	0
281-33.01	Ramsey Bay	0	0	0	0	0	0
281-32.07	Grub Gulch	0	0	0	0	0	0
281-32.05	Clark Bay	0	0	0	0	0	0
281-32.04	Little Norway	200	0	0	0	0	0
281-31.03	Orzinski (Orzenoi) Lake /1	10,300	11,400	16,400	12,000	4,573	9,852
281-20.04	Windbound Bay	0	0	0	0	0	0
281-20.03	Chichagof Stream	0	0	0	0	0	0
281-20.02	Chichagof	0	0	0	0	0	0
281-20.01	Chichagof Bay	0	0	0	0	0	0
281-10.04	West Cove	0	0	0	0	0	0
281-10.03	Suzy Creek	0	0	0	0	0	0
281-10.02	Dorenoi Minor	0	0	0	0	0	0
281-10.01	Dorenoi Major	0	0	0	0	0	0
283-90.04	San Diego Bay	0	0	0	0	0	0
283-90.03	San Diego	0	0	0	0	0	0
283-90.04	San Diego Lagoon	Not Surveyed	0	0	0	0	0
283-90.02	Rough Beach	0	0	0	0	0	0
283-90.01	Swedania Point	0	0	0	0	0	0
282-13.01	Unga Spit	Not Surveyed	0				
282-13.02	Dry Lagoon	0	0	0	0	0	0
282-13.03	Bay Point	0	0	0	0	0	0
282-13.04	Pinnacle Point	0	0	0	0	0	0
282-13.05	Unnamed	Not Surveyed	0	0	0	Not Surveyed	0
282-10.02	Apollo Minor	0	0	0	0	0	0
282-10.03	Apollo Creek	0	0	0	0	0	0
282-10.04	Acheredin Lake	6,775	1,900	3,100	7,100	5,500	3,250
282-10.10	Unnamed	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
282-10.11	Apollo Gold Mine	0	0	0	0	0	0
282-10.12	Unga Cape	0	0	0	Not Surveyed	0	0
282-10.13	Baralof Bay	0	100	0	160	40	0
282-10.14	Squaw Harbor Minor	0	0	0	0	0	0
282-10.15	Squaw Harbor Major	0	0	0	0	0	0
282-10.16	Ben Green Bight	0	0	0	0	0	0
282-12.10	No Name	Not Surveyed	0	Not Surveyed	Not Surveyed	0	0
282-12.09	South Quartz Point	0	0	0	0	0	0
282-12.08	South Quartz Point	0	0	0	0	0	0
282-12.07	Zachary Bay	0	0	0	0	0	0
282-12.06	Zachary Bay	0	0	0	0	0	0
282-12.05	Zachary Bay	0	0	0	0	0	0
282-12.04	Zachary Bay	0	0	0	0	0	0

-continued-

Appendix A.1. (page 2 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
282-12.03	Zachary Bay	0	0	0	0	0	0
282-12.02	Zachary Bay	0	0	0	0	0	0
282-12.01	Coal Harbor	0	0	0	0	0	0
282-10.18	Humbolt Creek	Not Surveyed	1	1	0	Not Surveyed	0
282-11.01	Salmon Ranch	Not Surveyed	0	0	0	0	0
282-11.03	Fox Hole	0	0	0	0	0	0
282-11.06	Korovin Island	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	15
282-20.00	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.03	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.04	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.05	Falmouth Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
283-80.16	Ballast	0	0	0	0	0	0
283-80.15	Coleman	0	0	0	0	0	0
283-80.14	Johnson	0	0	0	0	0	0
283-80.12	Foster's Camp	0	0	0	0	0	0
283-80.11	Monolith Point	0	0	0	0	0	0
283-80.09	Foster Creek	0	0	0	0	0	0
283-80.08	Lefthand Bay	0	100	0	0	0	0
283-80.06	Cape Aliaksin East	0	0	0	0	0	0
283-80.05	Cape Aliaksin Center	0	0	0	0	0	0
283-80.04	Cape Aliaksin West	0	0	0	0	0	0
283-70.04	Smiley's	0	0	0	0	0	0
283-70.05	Beaver River	0	0	0	0	0	0
SOUTHEASTERN DISTRICT TOTAL		17,275	13,501	19,501	19,260	10,113	13,117
SOUTH CENTRAL DISTRICT							
283-70.03	McGinty Point	0	0	0	0	0	0
283-70.02	East of Mino Creek	0	0	0	0	0	0
283-70.01	Mino Creek	60	450	600	550	950	1,400
283-62.05	Coal Bay Major	0	0	0	0	0	0
283-62.04	Coal Bay Minor	0	0	0	0	0	0
283-62.03	Coal Bay Middle	0	0	0	0	0	0
283-62.02	Coal Bay	0	0	0	0	0	0
283-62.01	Cape Tolstoi	Not Surveyed	Not Surveyed	Not Surveyed	0	0	0
283-63.16	Settlement Point	0	0	0	0	0	0
283-63.15	Middle Creek	0	0	0	0	0	0
283-64.10	Ness Creek	0	0	Not Surveyed	0	0	0
283-64.09	Inner Canoe Bay	Not Surveyed	0	0	0	0	0
283-64.08	Entrance Creek	0	0	0	0	0	0
283-64.	Wolverine Gulch	Not Surveyed	Not Surveyed	Not Surveyed	0	0	0
283-64.06	Canoe Bay River	2,700	700	1,200	550	600	800
283-64.05	Bluff Point	0	0	0	0	0	0
283-63.14	Dry Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	Not Surveyed
283-63.13	Ruby's Lagoon	0	0	0	100	0	0
283-63.11	Chinaman Lagoon North	Not Surveyed	0	0	0	0	0
283-63.10	Chinaman Lagoon Main	0	0	0	0	0	0
283-63.09	Chinaman Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
283-63.06	Chinaman Lagoon South	Not Surveyed	0	0	0	0	0
283-63.05	Lower Chinaman Lagoon	Not Surveyed	Not Surveyed	0	0	0	0
283-63.04	Chinaman Stream South	0	0	0	0	0	0
283-61.05	Long John Lagoon	Not Surveyed	0	0	0	0	1,100
283-61.04	Long John Lagoon	1,500	1,200	1,200	600	540	450
283-61.03	Long John Lagoon	0	0	0	0	0	0
283-61.02	Southwest Stream	0	0	0	0	0	0
SOUTH CENTRAL DISTRICT TOTAL		4,260	2,350	3,000	1,800	2,090	3,750

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Appendix A.1. (page 3 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
SOUTHWESTERN DISTRICT							
283-52.10	Dushkin Lagoon	0	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
283-52.08	Volcano River	0	0	0	0	0	0
283-52.07	Volcano Center Sloughs	0	0	0	0	0	0
283-52.06	West Springholes	0	0	0	0	0	0
283-52.05	Streamguard Creek	0	0	0	0	0	0
283-52.04	Stub Creek	0	0	0	0	0	0
283-52.03	Little Bear Bay	0	0	0	0	0	0
283-52.01	Nikolaski Spit	0	0	0	0	0	0
283-51.06	Dolgoi Harbor Southwest	0	0	0	0	0	0
283-51.05	Dolgoi Harbor South	0	0	0	0	0	0
283-51.03	Dolgoi Harbor	0	0	0	0	0	0
283-41.01	Belkofski Village	0	0	0	0	0	0
283-42.12	Rocky River	0	0	0	0	0	0
283-42.10	Kitchen Anchorage	0	0	0	0	0	0
283-42.09	Captain's Harbor	0	0	0	0	0	0
283-42.07	Belkofski Bay River	0	0	0	0	0	0
283-42.06	Belkofski Bay Beach	0	0	0	0	0	0
283-42.05	Belkofski Bay West	0	0	0	0	0	0
283-42.03	Indian Head	0	0	0	0	0	0
283-33.05	Ram's Creek	0	0	0	0	0	0
283-33.04	King Cove Lagoon	0	0	0	0	0	0
283-33.03	King Cove Lagoon	0	0	0	0	0	0
283-31.01	Fox Island Anchorage East	0	0	0	0	0	0
283-31.02	Fox Island Anchorage Center	0	0	0	0	0	0
283-31.03	Fox Island Anchorage West	0	0	0	0	0	0
283-31.05	Paw Cape Creek	0	0	0	0	0	0
283-31.06	Southern Creek	0	0	0	0	0	0
283-31.10	Eastern Creek	0	0	0	0	0	0
283-34.11	Lenard Harbor South	0	0	0	0	0	0
283-34.10	Lenard Harbor	0	0	0	0	0	0
283-34.09	Barney's Creek	0	0	0	0	0	0
283-34.07	Kinzarof Lagoon	50	800	1,900	700	170	2,100
283-34.06	Kinzarof Lagoon	200	1,400	Not Surveyed	100	40	500
283-34.05	Kinzarof Lagoon	10	750	700	700	40	600
283-34.03	Trout Creek	0	150	10	20	40	30
283-34.02	Russel Creek	160	700	600	40	0	100
283-34.01	Mortensen	1,400	3,200	2,300	2,400	1,900	7,050
283-32.01	Old Man's Lagoon	0	0	0	0	0	0
283-20.06	Thinpoint Lagoon & Entrance Channel	7,800	800	14,800	13,500	9,600	20,300
283-20.08	Thinpoint West	Not Surveyed	500	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
283-20.09	Thinpoint Lake Stream	3,800	3,000	Not Surveyed	1,700	5,200	4,400
283-20.10	Thinpoint Lake	3,000	5,200	Not Surveyed	3,500	2,800	2,500
283-20.04	Southwest Bight	0	0	0	0	0	0
283-20.03	Verskin's Bight	Not Surveyed	0	0	0	0	0
283-20.01	Sandy Cove Stream	0	0	0	0	0	0
283-23.03	Verskin's Bight	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0
283-11.01	Egg Island Stream	0	0	0	0	0	0
283-12.13	Little John Lagoon	0	4	0	0	0	0
283-12.12	Little John Sand Spit	0	0	0	0	0	0
283-12.11	Cannery	0	0	0	0	0	0
283-12.05	Middle Lagoon	5,500	7,000	5,700	8,000	14,100	7,100
283-12.01	Hansen's	50	25	100	300	630	2,300
283-60.08	Deadman's Cove	200	300	300	300	1,500	1,900
284-60.07	Whalebone	1,200	1,100	1,200	2,500	0	2,200
284-60.06	Sankin Bay	0	0	0	0	0	0
284-60.05	Whirl Point	0	0	0	0	0	0
284-60.04	Ikatan River	0	No Survey	0	0	0	0

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Appendix A.1. (page 4 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
284-60.03	Swede's Lake	400	400	200	150	1,000	220
284-60.01	Ikatan Point	0	0	0	0	0	0
SOUTHWESTERN DISTRICT TOTAL		23,770	25,329	27,810	33,910	37,020	51,300
UNIMAK DISTRICT							
284-50.00	Dora Harbor Left	0	Not Surveyed	0	0	0	Not Surveyed
284-40.09	Otter Cove North	0	0	0	0	0	0
284-40.08	Otter Cove South	0	0	0	0	0	0
284-40.05	Lazaref River	0	0	0	Not Surveyed	Not Surveyed	Not Surveyed
283-10.10065	Sanak Village	20	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10070	Sanak Is. W.	800	Not Surveyed	Not Surveyed	Not Surveyed	1,200	Not Surveyed
283-10.10080	Washwomen Creek	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	1,500	Not Surveyed
283-10.??	Dodd's Bay E.	0	Not Surveyed	Not Surveyed	Not Surveyed	400	Not Surveyed
283-10.??	Dodd's Bay W.	700	Not Surveyed				
283-10.10090	Sandy Bay	700	Not Surveyed	Not Surveyed	Not Surveyed	300	Not Surveyed
283-10.10100	Salmon Bay	2,700	Not Surveyed	Not Surveyed	Not Surveyed	4,000	Not Surveyed
UNIMAK DISTRICT TOTAL		4,920	0	0	0	7,400	0

Appendix A.2. Pink salmon peak escapement by district and stream for the South Peninsula, 1986-1991.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
SOUTHEASTERN DISTRICT							
281-35.07	Bluff Point	5	Not Surveyed	550	Not Surveyed	0	2,200
281-35.06	Boulder Bay	470	1,250	1,100	500	2,250	300
281-35.05	Fox Bay	625	1,025	7,670	600	1,500	50
281-35.04	Fox Bay	500	1,300	2,525	350	600	0
281-35.02	Fox Bay	6,400	10,150	9,700	5,650	1,600	15,000
281-34.08	Island Bay	275	750	2,050	200	500	600
281-34.07	Island Bay	310	700	9,800	150	25	350
281-34.06	Island Bay	6,350	7,200	1,000	100	3,500	4,600
281-34.05	Island Bay	8,700	7,500	8,200	900	1,750	6,200
281-34.04	Unnamed	Not Surveyed	2,400	1,400	225	250	1,300
281-34.03	Stonehouse	10,500	17,500	16,400	3,300	4,800	24,600
281-34.02	Osterback	5,000	5,275	14,900	2,300	5,500	28,100
281-34.01	Granville-Portage Inlet	650	1,500	2,000	900	1,200	2,900
281-33.05	Stepovak River	0	2,500	700	21,000	1,500	20,000
281-33.06	Stepovak Flats	Not Surveyed	0	Not Surveyed	Not Surveyed	0	300
281-33.04	Big River	0	1,000	0	2,000	1,600	16,000
281-33.03	Louie's Corner	0	10,000	0	7,000	0	6,000
281-33.02	Ramsey Bay	Not Surveyed	4,000	1,100	0	0	5,000
281-33.01	Ramsey Bay	1,000	500	2,400	3,000	0	6,000
281-32.07	Grub Gulch	4,650	17,600	38,000	27,500	25,800	52,000
281-32.05	Clark Bay	6,750	2,500	3,800	1,400	6,400	15,500
281-32.04	Little Norway	12,000	13,000	12,200	8,800	4,500	33,000
281-31.03	Orzinski (Orzenoi) Lake /1	11,400	25,000	38,300	12,000	14,000	35,000
281-20.04	Windbound Bay	2,500	1,000	5,400	1,050	600	1,400
281-20.03	Chichagof Stream	1,300	3,150	6,500	85	1,500	0
281-20.02	Chichagof	4,000	11,000	9,300	7,400	3,300	23,000
281-20.01	Chichagof Bay	1,700	7,875	3,600	1,500	4,300	4,300
281-10.04	West Cove	250	2,500	1,550	0	1,700	1,900
281-10.03	Suzy Creek	84,000	77,000	55,000	16,300	21,000	49,000
281-10.02	Dorenoi Minor	1,600	1,500	3,400	3,350	3,600	1,200
281-10.01	Dorenoi Major	6,000	14,000	15,600	5,300	6,700	11,300
283-90.04	San Diego Bay	0	0	0	0	0	8,700
283-90.03	San Diego	0	0	0	0	0	1,700
283-90.02	Rough Beach	28,000	42,400	55,000	23,000	28,000	11,400
283-90.01	Swedania Point	46,200	18,900	38,250	5,900	8,500	30,700
282-13.01	Unga Spit	Not Surveyed	0				
282-13.02	Dry Lagoon	42,425	8,785	21,000	600	20,000	5,000
282-13.03	Bay Point	36,550	31,300	32,000	14,000	10,400	47,000
282-13.04	Pinnacle Point	10,000	1,400	10,000	250	27,000	1,900
282-13.05	Unnamed	Not Surveyed	0	0	0	Not Surveyed	200
282-10.03	Apollo Creek	2,750	6,625	10,325	1,700	1,300	13,400
282-10.04	Acheredin Lake	0	250	0	0	0	0
282-10.10	Unnamed	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
282-10.11	Apollo Gold Mine	2,700	8,400	6,100	2,700	5,800	12,000
282-10.12	Unga Cape	0	120	200	Not Surveyed	0	5,300
282-10.13	Baralof Bay	0	0	0	0	400	3,500
282-10.14	Squaw Harbor Minor	2,700	1,550	7,200	950	2,000	18,300
282-10.15	Squaw Harbor Major	21,550	41,100	92,000	22,300	21,000	53,000
282-10.16	Ben Green Bight	9,250	8,600	10,700	6,500	5,500	7,700
282-12.10	No Name	Not Surveyed	2,400	Not Surveyed	Not Surveyed	500	10
282-12.09	South Quartz Point	0	2,200	0	55	400	1,000
282-12.08	South Quartz Point	0	0	50	25	275	1,000
282-12.07	Zachary Bay	325	400	560	750	125	200
282-12.06	Zachary Bay	0	0	470	1,550	300	0
282-12.05	Zachary Bay	1,650	2,200	510	1,475	2,100	3,300
282-12.04	Zachary Bay	15	1,780	3,350	550	750	1,000
282-12.03	Zachary Bay	220	500	375	50	200	200

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Stream Number	Stream Name/Location	Year					1991
		1986	1987	1988	1989	1990	
282-12.02	Zachary Bay	20	700	350	55	2,500	3,000
282-12.01	Coal Harbor	20	2,700	100	125	125	0
282-10.18	Humbolt Creek	Not Surveyed	1,005	1,005	450	Not Surveyed	1,400
282-11.01	Salmon Ranch	Not Surveyed	400	1,550	1,000	2,800	2,600
282-11.03	Fox Hole	100	3,900	5,000	1,100	3,800	1,900
282-11.06	Korovin Island	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
282-20.00	Sanborn Harbor	Not Surveyed	Not Surveyed	6,500	Not Surveyed	Not Surveyed	Not Surveyed
282-20.03	Sanborn Harbor	Not Surveyed	Not Surveyed	1,000	Not Surveyed	Not Surveyed	Not Surveyed
282-20.04	Sanborn Harbor	Not Surveyed	Not Surveyed	11,500	Not Surveyed	Not Surveyed	Not Surveyed
282-20.05	Falmouth Harbor	Not Surveyed	Not Surveyed	700	Not Surveyed	Not Surveyed	Not Surveyed
283-80.16	Ballast	0	0	1,400	0	0	0
283-80.15	Coleman	100	0	2,650	400	2,300	9,500
283-80.14	Johnson	2,600	7,500	7,000	5,900	7,000	15,000
283-80.12	Foster's Camp	450	650	600	600	500	800
283-80.11	Monolith Point	1,350	1,500	1,300	625	2,000	500
283-80.09	Foster Creek	10,000	12,400	10,500	15,000	14,000	22,000
283-80.08	Lefthand Bay	13,500	6,500	15,000	12,175	9,000	16,000
283-80.06	Cape Aliaksin East	2,400	2,700	19,000	10,000	11,500	5,000
283-80.05	Cape Aliaksin Center	1,300	3,000	3,000	2,200	2,400	1,300
283-80.04	Cape Aliaksin West	6,250	6,300	12,500	10,000	9,000	13,000
283-70.04	Smiley's	3,100	12,570	1,800	12,100	800	5,500
283-70.05	Beaver River	4,800	31,100	34,000	25,000	6,200	16,700
SOUTHEASTERN DISTRICT TOTAL		430,810	526,010	702,215	313,245	329,700	712,310
SOUTH CENTRAL DISTRICT							
283-70.03	McGinty Point	5,200	23,675	5,400	24,000	8,000	12,000
283-70.02	East of Mino Creek	14,800	42,900	31,800	78,000	7,800	100,500
283-70.01	Mino Creek	97,550	237,000	103,600	185,000	73,100	463,000
283-62.05	Coal Bay Major	52,000	56,100	43,000	39,300	26,000	132,000
283-62.04	Coal Bay Minor	9,500	16,500	20,700	13,000	13,600	31,700
283-62.03	Coal Bay Middle	400	600	1,000	400	2,000	0
283-62.02	Coal Bay	600	1,200	2,200	2,000	4,000	75
283-62.01	Cape Tolstoi	Not Surveyed	Not Surveyed	Not Surveyed	1,200	2,800	900
283-63.16	Settlement Point	190,000	134,000	212,300	111,000	151,000	186,900
283-63.15	Middle Creek	107,000	59,000	95,000	27,000	22,600	139,000
283-64.10	Ness Creek	2,200	1,000	Not Surveyed	400	2,600	3,500
283-64.09	Inner Canoe Bay	Not Surveyed	0	0	0	0	0
283-64.08	Entrance Creek	26,150	10,300	7,800	1,600	3,900	9,300
283-64.	Wolverine Gulch	Not Surveyed	Not Surveyed	Not Surveyed	400	1,600	1,300
283-64.06	Canoe Bay River	5,000	9,500	36,200	1,100	2,500	2,500
283-64.05	Bluff Point	5,100	7,400	21,000	1,200	12,000	4,300
283-63.14	Dry Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
283-63.13	Ruby's Lagoon	0	0	0	0	600	0
283-63.11	Chinaman Lagoon North	Not Surveyed	0	0	0	0	0
283-63.10	Chinaman Lagoon Main	0	0	0	0	0	0
283-63.09	Chinaman Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
283-63.06	Chinaman Lagoon South	Not Surveyed	0	0	0	0	0
283-63.05	Lower Chinaman Lagoon	Not Surveyed	Not Surveyed	0	0	0	0
283-63.04	Chinaman Stream South	1,700	0	0	0	600	0
283-61.05	Long John Lagoon	Not Surveyed	0	0	0	0	0
283-61.04	Long John Lagoon	0	0	1,600	500	0	0
283-61.03	Long John Lagoon	300	200	500	0	0	0
283-61.02	Southwest Stream	1,500	0	2,600	1,300	1,400	300
SOUTH CENTRAL DISTRICT TOTAL		519,000	599,375	584,700	487,400	336,100	1,087,275
SOUTHWESTERN DISTRICT							
283-52.10	Dushkin Lagoon	0	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
283-52.08	Volcano River	3,400	700	11,000	1,200	2,000	1,500

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Appendix A.2. (page 3 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
283-52.07	Volcano Center Sloughs	3,000	500	6,000	2,100	2,400	3,500
283-52.06	West Springholes	33,000	4,500	13,000	5,000	8,500	10,000
283-52.05	Streamguard Creek	1,900	650	5,000	5,000	500	2,000
283-52.04	Stub Creek	7,500	100	18,500	1,700	5,000	1,700
283-52.03	Little Bear Bay	17,200	0	20,000	700	2,700	2,400
283-52.01	Nikolaski Spit	6,000	1,400	17,300	7,000	12,000	10,700
283-51.06	Dolgoi Harbor Southwest	3,800	7,700	15,350	7,500	3,800	6,100
283-51.05	Dolgoi Harbor South	300	200	9,650	300	300	100
283-51.03	Dolgoi Harbor	200	300	6,650	200	1,000	500
283-41.01	Belkofski Village	28,700	13,000	27,100	11,000	16,200	21,000
283-42.12	Rocky River	15,500	3,600	20,200	19,000	13,900	19,000
283-42.10	Kitchen Anchorage	9,000	9,400	66,000	4,500	4,000	7,700
283-42.09	Captain's Harbor	7,000	400	39,000	1,200	4,000	300
283-42.07	Belkofski Bay River	800	0	19,000	1,100	5,400	2,500
283-42.06	Belkofski Bay Beach	900	300	3,000	800	4,600	800
283-42.05	Belkofski Bay West	5,500	1,900	14,600	3,900	5,300	2,500
283-42.03	Indian Head	6,000	950	21,000	4,000	13,400	8,500
283-33.05	Ram's Creek	21,600	3,100	25,000	12,000	15,000	24,000
283-33.04	King Cove Lagoon	0	0	0	0	0	0
283-33.03	King Cove Lagoon	0	0	0	0	0	0
283-31.01	Fox Island Anchorage East	31,500	8,000	73,000	16,000	34,500	17,600
283-31.02	Fox Island Anchorage Center	3,000	700	8,000	4,400	3,500	2,000
283-31.03	Fox Island Anchorage West	8,800	5,100	31,000	35,000	22,000	35,100
283-31.05	Paw Cape Creek	1,000	800	4,100	12,200	1,100	3,900
283-31.06	Southern Creek	61,500	73,000	268,000	169,000	54,000	137,000
283-31.10	Eastern Creek	39,400	17,700	33,000	49,500	34,000	70,000
283-34.11	Lenard Harbor South	100	350	1,700	1,400	1,400	2,500
283-34.10	Lenard Harbor	3,600	3,000	6,300	1,300	5,700	3,800
283-34.09	Barney's Creek	4,300	2,700	9,300	10,000	8,000	21,000
283-34.07	Kinzarof Lagoon	0	0	500	0	0	0
283-34.06	Kinzarof Lagoon	0	0	Not Surveyed	0	0	0
283-34.05	Kinzarof Lagoon	0	0	0	0	0	0
283-34.03	Trout Creek	0	0	400	100	700	100
283-34.02	Russel Creek	18,900	300	13,200	20,000	16,500	5,000
283-34.01	Mortensen	0	0	0	0	0	0
283-32.01	Old Man's Lagoon	0	0	0	0	0	0
283-20.06	Thinpoint Lagoon & Entrance Channel	0	0	0	0	0	0
283-20.08	Thinpoint West	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
283-20.09	Thinpoint Lake Stream	0	0	Not Surveyed	0	0	0
283-20.10	Thinpoint Lake	0	0	Not Surveyed	0	0	0
283-20.04	Southwest Bight	2,800	1,200	10,900	3,700	3,000	5,200
283-20.03	Verskin's Bight	Not Surveyed	5,700	21,000	14,000	11,000	47,000
283-20.01	Sandy Cove Stream	6,200	200	2,700	5,000	8,500	1,700
283-11.01	Egg Island Stream	1,800	1,200	5,600	4,600	3,200	8,000
283-12.13	Little John Lagoon	400	400	2,000	900	1,000	1,300
283-12.12	Little John Sand Spit	0	0	200	0	300	0
283-12.11	Cannery	800	0	1,000	20	200	0
283-12.05	Middle Lagoon	0	0	0	0	0	0
283-12.01	Hansen's	6,400	400	12,300	1,200	5,800	2,500
283-60.08	Deadman's Cove	29,000	1,600	101,000	2,800	37,000	6,000
284-60.07	Whalebone	200	500	750	500	0	400
284-60.06	Sankin Bay	2,000	100	1,500	200	2,400	200
284-60.05	Whirl Point	800	1,000	2,500	800	1,700	12,000
284-60.04	Ikatan River	1,000	Not Surveyed	27,600	0	3,500	900
284-60.03	Swede's Lake	150	100	300	0	500	250
284-60.01	Ikatan Point	2,700	200	6,800	250	9,600	300
SOUTHWESTERN DISTRICT TOTAL		409,650	172,950	1,002,000	441,070	389,100	508,550

-continued-

Stream Number	Stream Name/Location	Year					1991
		1986	1987	1988	1989	1990	
UNIMAK DISTRICT							
284-50.00	Dora Harbor Left	100	Not Surveyed	900	100	100	Not Surveyed
284-40.09	Otter Cove North	6,000	200	7,800	300	5,000	1,900
284-40.08	Otter Cove South	1,200	100	2,600	100	3,000	400
284-40.05	Lazaref River	400	0	3,000	Not Surveyed	Not Surveyed	Not Surveyed
283-10.10065	Sanak Village	300	Not Surveyed	Not Surveyed	Not Surveyed	500	Not Surveyed
283-10.10070	Sanak Is. W.	1,900	Not Surveyed	Not Surveyed	Not Surveyed	1,800	Not Surveyed
283-10.10080	Washwomen Creek	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	600	Not Surveyed
283-10.??	Dodd's Bay E.	200	Not Surveyed	Not Surveyed	Not Surveyed	300	Not Surveyed
283-10.??	Dodd's Bay W.	2,000	Not Surveyed				
283-10.10090	Sandy Bay	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10100	Salmon Bay	1,000	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
UNIMAK DISTRICT TOTAL		13,100	300	14,300	500	11,300	2,300
TOTAL SOUTH PENINSULA		1,372,560	1,298,635	2,303,215	1,242,215	1,066,200	2,310,435

Appendix A.3. Chum salmon peak escapement by district and stream for the South Peninsula, 1986-1991.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
SOUTHEASTERN DISTRICT							
281-35.07	Bluff Point	0	Not Surveyed	0	Not Surveyed	0	0
281-35.06	Boulder Bay	0	3,000	2,000	0	800	1,800
281-35.05	Fox Bay	0	0	0	0	0	0
281-35.04	Fox Bay	0	0	100	0	0	1,400
281-35.02	Fox Bay	0	0	0	0	0	0
281-34.08	Island Bay	0	0	0	0	0	0
281-34.07	Island Bay	0	0	0	0	0	0
281-34.06	Island Bay	0	0	0	0	0	0
281-34.05	Island Bay	0	0	0	0	0	0
281-34.04	Unnamed	Not Surveyed	0	0	0	0	0
281-34.03	Stonehouse	0	0	0	0	0	0
281-34.02	Osterback	0	0	0	0	0	0
281-34.01	Granville-Portage Inlet	3,000	4,000	1,350	2,000	2,500	3,000
281-33.05	Stepovak River	32,900	39,800	10,000	28,000	15,300	35,000
281-33.06	Stepovak Flats	Not Surveyed	0	Not Surveyed	Not Surveyed	650	1,200
281-33.04	Big River	850	4,000	1,250	1,200	900	13,500
281-33.03	Louie's Corner	2,600	12,450	3,300	4,000	4,400	15,000
281-33.02	Ramsey Bay	Not Surveyed	3,300	3,000	2,700	900	15,000
281-33.01	Ramsey Bay	2,500	475	0	2,090	220	10,000
281-32.07	Grub Gulch	8,000	7,600	3,500	3,000	1,050	4,400
281-32.05	Clark Bay	5,000	1,100	0	0	1,000	2,800
281-32.04	Little Norway	3,000	850	1,300	0	10,000	4,900
281-31.03	Orzinski (Orzenoi) Lake /1	0	0	0	0	200	2,000
281-20.04	Windbound Bay	0	0	0	0	0	0
281-20.03	Chichagof Stream	1,000	0	0	0	0	2,500
281-20.02	Chichagof	600	3,000	6,900	0	3,200	3,800
281-20.01	Chichagof Bay	400	0	0	0	0	2,600
281-10.04	West Cove	0	0	0	0	0	0
281-10.03	Suzy Creek	0	0	0	0	0	0
281-10.02	Dorenoi Minor	200	1,200	0	0	600	0
281-10.01	Dorenoi Major	2,000	400	2,000	0	2,100	0
283-90.04	San Diego Bay	3,700	1,100	500	225	1,400	300
283-90.03	San Diego	75	300	25	125	50	300
283-90.04	San Diego Lagoon	Not Surveyed	6,500	6,850	0	20	0
283-90.02	Rough Beach	0	0	0	0	0	0
283-90.01	Swedania Point	0	0	0	0	0	0
282-13.01	Unga Spit	Not Surveyed	0				
282-13.02	Dry Lagoon	0	0	5,000	0	4,250	6,300
282-13.03	Bay Point	725	7,000	2,900	2,000	750	9,800
282-13.04	Pinnacle Point	0	0	0	0	0	0
282-13.05	Unnamed	Not Surveyed	0	0	0	Not Surveyed	0
282-10.02	Apollo Minor	0	0	0	0	0	0
282-10.03	Apollo Creek	0	0	0	0	100	0
282-10.04	Acheredin Lake	0	0	0	0	0	0
282-10.10	Unnamed	Not Surveyed	0	300	Not Surveyed	Not Surveyed	0
282-10.11	Apollo Gold Mine	0	200	0	0	0	0
282-10.12	Unga Cape	0	0	0	Not Surveyed	0	0
282-10.13	Baralof Bay	0	0	0	0	50	0
282-10.14	Squaw Harbor Minor	0	0	0	0	0	0
282-10.15	Squaw Harbor Major	0	0	0	0	0	0
282-10.16	Ben Green Bight	0	0	0	0	0	0
282-12.10	No Name	Not Surveyed	0	Not Surveyed	Not Surveyed	0	0
282-12.09	South Quartz Point	0	0	0	0	0	0
282-12.08	South Quartz Point	15	300	0	0	0	0
282-12.07	Zachary Bay	0	200	250	0	0	0
282-12.06	Zachary Bay	0	0	0	0	50	0
282-12.05	Zachary Bay	745	1,500	330	0	50	0

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Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
282-12.04	Zachary Bay	30	2,500	0	0	500	0
282-12.03	Zachary Bay	0	0	0	0	0	0
282-12.02	Zachary Bay	55	15	0	0	0	0
282-12.01	Coal Harbor	0	0	0	0	0	0
282-10.18	Humbolt Creek	Not Surveyed	0	0	0	Not Surveyed	0
282-11.01	Salmon Ranch	Not Surveyed	0	0	0	0	0
282-11.03	Fox Hole	0	0	0	0	0	0
282-11.06	Korovin Island	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
282-20.00	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.03	Sanborn Harbor	Not Surveyed	Not Surveyed	1,000	Not Surveyed	Not Surveyed	Not Surveyed
282-20.04	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.05	Falmouth Harbor	Not Surveyed	Not Surveyed	200	Not Surveyed	Not Surveyed	Not Surveyed
283-80.16	Ballast	0	0	0	0	0	0
283-80.15	Coleman	14,300	10,800	15,500	2,200	1,400	600
283-80.14	Johnson	6,000	1,300	600	350	700	250
283-80.12	Foster's Camp	0	0	0	0	0	200
283-80.11	Monolith Point	0	0	0	0	0	200
283-80.09	Foster Creek	2,600	2,000	5,000	300	3,600	7,000
283-80.08	Lefthand Bay	4,500	5,000	4,000	500	4,000	7,000
283-80.06	Cape Aliaksin East	0	0	0	0	0	0
283-80.05	Cape Aliaksin Center	0	0	0	0	200	0
283-80.04	Cape Aliaksin West	0	0	0	0	0	0
283-70.04	Smiley's	0	0	0	0	0	0
283-70.05	Beaver River	9,900	5,600	9,000	13,000	5,300	11,000
SOUTHEASTERN DISTRICT TOTAL		104,695	125,490	86,155	61,690	66,240	161,850
SOUTH CENTRAL DISTRICT							
283-70.03	McGinty Point	0	0	0	0	100	0
283-70.02	East of Mino Creek	0	0	0	0	0	0
283-70.01	Mino Creek	0	4,100	2,000	0	380	1,000
283-62.05	Coal Bay Major	0	0	0	0	0	0
283-62.04	Coal Bay Minor	0	0	0	0	0	0
283-62.03	Coal Bay Middle	0	0	0	0	0	0
283-62.02	Coal Bay	0	0	0	0	0	0
283-62.01	Cape Tolstoi	Not Surveyed	Not Surveyed	Not Surveyed	0	0	0
283-63.16	Settlement Point	0	2,000	4,000	200	2,000	4,000
283-63.15	Middle Creek	0	0	0	0	0	0
283-64.10	Ness Creek	0	0	Not Surveyed	0	0	0
283-64.09	Inner Canoe Bay	Not Surveyed	300	5,200	2,100	1,600	600
283-64.08	Entrance Creek	0	0	3,800	1,500	500	1,500
283-64.	Wolverine Gulch	Not Surveyed	Not Surveyed	Not Surveyed	0	0	0
283-64.06	Canoe Bay River	54,500	59,000	25,700	37,200	43,200	68,000
283-64.05	Bluff Point	12,100	1,800	7,000	900	1,100	2,600
283-63.14	Dry Lagoon	Not Surveyed	200	8,500	Not Surveyed	Not Surveyed	Not Surveyed
283-63.13	Ruby's Lagoon	8,000	5,500	0	4,800	5,500	7,000
283-63.11	Chinaman Lagoon North	Not Surveyed	2,000	0	1,000	400	2,400
283-63.10	Chinaman Lagoon Main	9,000	10,100	4,900	2,000	2,700	3,100
283-63.09	Chinaman Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
283-63.06	Chinaman Lagoon South	Not Surveyed	11,300	9,900	400	600	500
283-63.05	Lower Chinaman Lagoon	Not Surveyed	Not Surveyed	500	100	3,200	1,300
283-63.04	Chinaman Stream South	800	2,200	7,600	700	1,700	400
283-61.05	Long John Lagoon	Not Surveyed	0	0	0	0	0
283-61.04	Long John Lagoon	0	0	0	0	0	1,100
283-61.03	Long John Lagoon	100	0	200	0	0	0
283-61.02	Southwest Stream	5,200	5,600	9,000	2,200	1,700	8,000
SOUTH CENTRAL DISTRICT TOTAL		89,700	104,100	88,300	53,100	64,680	101,500

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Appendix A.3. (page 3 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
SOUTHWESTERN DISTRICT							
283-52.10	Dushkin Lagoon	4,000	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
283-52.08	Volcano River	28,000	35,000	15,000	5,500	10,800	15,000
283-52.07	Volcano Center Sloughs	39,000	26,900	11,000	1,000	2,000	10,000
283-52.06	West Springholes	400	2,400	2,500	100	900	5,000
283-52.05	Streamguard Creek	200	0	300	0	500	0
283-52.04	Stub Creek	0	0	0	0	0	0
283-52.03	Little Bear Bay	10,000	200	1,400	800	700	400
283-52.01	Nikolaski Spit	0	0	0	0	0	0
283-51.06	Dolgoi Harbor Southwest	0	0	0	0	0	0
283-51.05	Dolgoi Harbor South	0	0	0	0	0	0
283-51.03	Dolgoi Harbor	0	0	0	0	0	0
283-41.01	Belkofski Village	400	300	0	600	0	300
283-42.12	Rocky River	0	0	0	0	0	0
283-42.10	Kitchen Anchorage	0	0	0	0	0	0
283-42.09	Captain's Harbor	0	0	0	0	300	0
283-42.07	Belkofski Bay River	57,000	51,300	31,800	19,000	27,200	24,000
283-42.06	Belkofski Bay Beach	0	0	0	0	0	0
283-42.05	Belkofski Bay West	0	0	0	0	0	0
283-42.03	Indian Head	0	0	0	0	0	0
283-33.05	Ram's Creek	0	0	200	500	5,000	300
283-33.04	King Cove Lagoon	3,200	75	200	500	400	100
283-33.03	King Cove Lagoon	2,100	0	1,100	100	50	300
283-31.01	Fox Island Anchorage East	0	0	0	0	0	0
283-31.02	Fox Island Anchorage Center	0	0	0	0	0	0
283-31.03	Fox Island Anchorage West	0	0	0	0	0	0
283-31.05	Paw Cape Creek	0	0	0	0	0	0
283-31.06	Southern Creek	0	0	0	0	0	0
283-31.10	Eastern Creek	0	0	0	0	0	0
283-34.11	Lenard Harbor South	0	0	0	0	0	0
283-34.10	Lenard Harbor	13,000	15,800	9,800	2,400	4,800	8,000
283-34.09	Barney's Creek	400	0	600	900	900	2,500
283-34.07	Kinzarof Lagoon	0	800	200	0	0	900
283-34.06	Kinzarof Lagoon	0	0	Not Surveyed	0	0	0
283-34.05	Kinzarof Lagoon	0	0	0	0	0	0
283-34.03	Trout Creek	70	700	300	300	50	1,000
283-34.02	Russel Creek	56,600	32,000	57,500	42,500	15,400	49,900
283-34.01	Mortensen	0	0	0	0	0	0
283-32.01	Old Man's Lagoon	800	3,800	1,500	1,300	1,400	1,400
283-20.06	Thinpoint Lagoon & Entrance Channel	0	0	0	0	0	0
283-20.08	Thinpoint West	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
283-20.09	Thinpoint Lake Stream	0	0	Not Surveyed	0	0	0
283-20.10	Thinpoint Lake	0	0	Not Surveyed	0	0	0
283-20.04	Southwest Bight	0	0	0	0	0	0
283-20.03	Verskin's Bight	Not Surveyed	0	0	0	0	0
283-20.01	Sandy Cove Stream	38,000	49,800	15,000	7,000	16,500	20,000
283-23.03	Verskin's Bight	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0
283-11.01	Egg Island Stream	100	300	1,100	400	700	2,000
283-12.13	Little John Lagoon	4,400	22,000	9,000	2,600	2,300	6,000
283-12.12	Little John Sand Spit	400	500	50	50	100	0
283-12.11	Cannery	400	60	900	30	20	400
283-12.05	Middle Lagoon	0	0	0	0	0	0
283-12.01	Hansen's	0	0	300	0	0	0
283-60.08	Deadman's Cove	0	0	0	0	0	0
284-60.07	Whalebone	0	0	0	0	0	0
284-60.06	Sankin Bay	0	0	200	0	300	0
284-60.05	Whirl Point	0	0	0	0	0	0
284-60.04	Ikatan River	0	Not Surveyed	5,000	0	200	0
284-60.03	Swede's Lake	0	0	0	0	0	0
284-60.01	Ikatan Point	0	0	0	0	300	0
SOUTHWESTERN DISTRICT TOTAL		258,470	241,935	164,950	85,580	90,820	147,500

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Appendix A.3. (page 4 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
UNIMAK DISTRICT							
284-50.00	Dora Harbor Left	0	Not Surveyed	0	0	0	0
284-40.09	Otter Cove North	0	100	200	200	200	0
284-40.08	Otter Cove South	300	100	400	50	300	300
284-40.05	Lazaref River	100	200	500	Not Surveyed	Not Surveyed	Not Surveyed
283-10.10065	Sanak Village	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10070	Sanak Is. W.	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10080	Washwomen Creek	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.??	Dodd's Bay E.	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.??	Dodd's Bay W.	0	Not Surveyed				
283-10.10090	Sandy Bay	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10100	Salmon Bay	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
UNIMAK DISTRICT TOTAL		400	400	1,100	250	500	300
TOTAL SOUTH PENINSULA		453,265	471,925	340,505	200,620	222,240	411,150

Appendix A.4. Coho salmon peak escapement by district and stream for the South Peninsula, 1986-1991.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
SOUTHEASTERN DISTRICT							
281-35.07	Bluff Point	0	Not Surveyed	0	Not Surveyed	0	0
281-35.06	Boulder Bay	0	0	0	0	1,500	0
281-35.05	Fox Bay	0	0	0	0	0	0
281-35.04	Fox Bay	0	0	0	0	500	0
281-35.02	Fox Bay	0	0	0	0	200	0
281-34.08	Island Bay	0	0	0	0	0	0
281-34.07	Island Bay	0	0	0	0	0	0
281-34.06	Island Bay	0	0	0	0	150	0
281-34.05	Island Bay	0	0	0	0	150	0
281-34.04	Unnamed	Not Surveyed	0	0	0	0	0
281-34.03	Stonehouse	0	0	0	0	0	0
281-34.02	Osterback	0	0	0	0	20	0
281-34.01	Granville-Portage Inlet	0	0	0	200	700	0
281-33.05	Stepovak River	0	0	0	0	0	0
281-33.06	Stepovak Flats	Not Surveyed	0	Not Surveyed	Not Surveyed	250	0
281-33.04	Big River	0	0	0	0	0	0
281-33.03	Louie's Corner	0	0	0	0	600	0
281-33.02	Ramsey Bay	Not Surveyed	0	0	0	300	0
281-33.01	Ramsey Bay	0	0	0	0	0	0
281-32.07	Grub Gulch	0	0	0	500	1,100	0
281-32.05	Clark Bay	0	0	0	0	0	0
281-32.04	Little Norway	0	0	0	0	400	0
281-31.03	Orzinski (Orzenoi) Lake /1	0	0	0	0	1,200	0
281-20.04	Windbound Bay	0	0	0	0	0	0
281-20.03	Chichagof Stream	0	0	0	0	0	0
281-20.02	Chichagof	0	0	0	0	300	0
281-20.01	Chichagof Bay	0	0	0	0	0	0
281-10.04	West Cove	0	0	0	0	0	0
281-10.03	Suzy Creek	0	0	0	0	0	0
281-10.02	Dorenoi Minor	0	0	0	0	0	0
281-10.01	Dorenoi Major	0	0	0	0	0	0
283-90.04	San Diego Bay	0	0	0	0	0	0
283-90.03	San Diego	0	0	0	0	0	0
283-90.02	Rough Beach	0	0	0	0	2,000	0
283-90.01	Swedania Point	0	0	0	0	500	0
282-13.01	Unga Spit	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0	0
282-13.02	Dry Lagoon	0	0	0	0	2,300	300
282-13.03	Bay Point	0	0	0	0	300	40
282-13.04	Pinnacle Point	0	0	0	0	0	125
282-13.05	Unnamed	Not Surveyed	0	0	0	Not Surveyed	0
282-10.02	Apollo Minor	0	0	0	0	0	0
282-10.03	Apollo Creek	0	0	0	0	0	0
282-10.04	Acheredin Lake	0	0	0	0	0	0
282-10.10	Unnamed	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
282-10.11	Apollo Gold Mine	0	0	0	0	0	0
282-10.12	Unga Cape	0	0	0	Not Surveyed	0	0
282-10.13	Baralof Bay	0	0	0	0	400	0
282-10.14	Squaw Harbor Minor	0	0	0	0	0	0
282-10.15	Squaw Harbor Major	0	0	0	0	2,000	0
282-10.16	Ben Green Bight	0	0	0	0	100	0
282-12.10	No Name	Not Surveyed	0	Not Surveyed	Not Surveyed	0	0
282-12.09	South Quartz Point	0	0	0	0	0	0
282-12.08	South Quartz Point	0	0	0	0	0	0
282-12.07	Zachary Bay	0	0	0	0	0	0
282-12.06	Zachary Bay	0	0	0	0	0	0
282-12.05	Zachary Bay	0	0	0	0	0	0
282-12.04	Zachary Bay	0	0	0	0	0	0

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Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
282-12.03	Zachary Bay	0	0	0	0	0	0
282-12.02	Zachary Bay	0	0	0	0	0	0
282-12.01	Coal Harbor	0	0	0	0	0	0
282-10.18	Humbolt Creek	Not Surveyed	21	30	0	Not Surveyed	10
282-11.01	Salmon Ranch	Not Surveyed	0	0	0	0	0
282-11.03	Fox Hole	0	0	0	0	0	0
282-11.06	Korovin Island	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
282-20.00	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.03	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.04	Sanborn Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
282-20.05	Falmouth Harbor	Not Surveyed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
283-80.16	Ballast	0	0	0	0	0	0
283-80.15	Coleman	0	0	0	0	500	0
283-80.14	Johnson	0	0	0	0	0	0
283-80.12	Foster's Camp	0	0	0	0	0	0
283-80.11	Monolith Point	0	0	0	0	0	0
283-80.09	Foster Creek	0	0	0	0	200	0
283-80.08	Lefthand Bay	0	0	2,200	200	1,900	0
283-80.06	Cape Aliaksin East	0	0	0	0	0	0
283-80.05	Cape Aliaksin Center	0	0	0	0	0	0
283-80.04	Cape Aliaksin West	0	0	0	0	0	0
283-70.04	Smiley's	0	0	0	0	0	0
283-70.05	Beaver River	0	0	700	3,300	2,200	0
SOUTHEASTERN DISTRICT TOTAL		0	21	2,930	4,200	19,770	475
SOUTH CENTRAL DISTRICT							
283-70.03	McGinty Point	0	0	0	0	0	0
283-70.02	East of Mino Creek	0	0	0	0	0	0
283-70.01	Mino Creek	0	0	0	0	1,900	0
283-62.05	Coal Bay Major	0	0	0	0	200	0
283-62.04	Coal Bay Minor	0	0	0	0	100	0
283-62.03	Coal Bay Middle	0	0	0	0	0	0
283-62.02	Coal Bay	0	0	0	0	0	0
283-62.01	Cape Tolstoi	Not Surveyed	Not Surveyed	Not Surveyed	0	0	0
283-63.16	Settlement Point	0	0	0	0	1,600	0
283-63.15	Middle Creek	0	0	0	0	0	0
283-64.10	Ness Creek	0	0	Not Surveyed	0	0	0
283-64.09	Inner Canoe Bay	Not Surveyed	0	0	0	0	0
283-64.08	Entrance Creek	0	0	0	0	0	0
283-64.	Wolverine Gulch	Not Surveyed	Not Surveyed	Not Surveyed	0	0	0
283-64.06	Canoe Bay River	0	0	500	1,300	1,200	0
283-64.05	Bluff Point	0	0	0	0	0	0
283-63.14	Dry Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
283-63.13	Ruby's Lagoon	0	0	0	100	600	0
283-63.11	Chinaman Lagoon North	Not Surveyed	0	0	0	0	0
283-63.10	Chinaman Lagoon Main	0	0	0	0	200	0
283-63.09	Chinaman Lagoon	Not Surveyed	0	0	Not Surveyed	Not Surveyed	0
283-63.06	Chinaman Lagoon South	Not Surveyed	0	0	0	0	0
283-63.05	Lower Chinaman Lagoon	Not Surveyed	Not Surveyed	0	0	0	0
283-63.04	Chinaman Stream South	0	0	0	0	0	0
283-61.05	Long John Lagoon	Not Surveyed	700	300	600	1,100	0
283-61.04	Long John Lagoon	0	0	300	0	50	0
283-61.03	Long John Lagoon	0	0	0	0	0	0
283-61.02	Southwest Stream	0	0	0	900	1,100	0
SOUTH CENTRAL DISTRICT TOTAL		0	700	1,100	2,900	8,050	0

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Stream Number	Stream Name/Location	Year					1991
		1986	1987	1988	1989	1990	
SOUTHWESTERN DISTRICT							
283-52.10	Dushkin Lagoon	0	0	Not Surveyed	Not Surveyed	Not Surveyed	0
283-52.08	Volcano River	0	0	0	500	2,000	0
283-52.07	Volcano Center Sloughs	0	0	0	200	100	0
283-52.06	West Springholes	0	0	0	0	300	0
283-52.05	Streamguard Creek	0	0	0	0	0	0
283-52.04	Stub Creek	0	0	0	0	0	0
283-52.03	Little Bear Bay	0	0	0	0	0	0
283-52.01	Nikolaski Spit	0	0	0	0	0	0
283-51.06	Dolgoi Harbor Southwest	0	0	0	0	0	0
283-51.05	Dolgoi Harbor South	0	0	0	0	0	0
283-51.03	Dolgoi Harbor	0	0	0	0	0	0
283-41.01	Belkofski Village	0	0	0	0	400	0
283-42.12	Rocky River	0	0	0	0	0	0
283-42.10	Kitchen Anchorage	0	0	0	0	0	0
283-42.09	Captain's Harbor	0	0	0	0	0	0
283-42.07	Belkofski Bay River	0	0	3,700	2,800	2,500	0
283-42.06	Belkofski Bay Beach	0	0	0	0	0	0
283-42.05	Belkofski Bay West	0	0	0	0	400	0
283-42.03	Indian Head	0	0	0	0	0	0
283-33.05	Ram's Creek	0	0	0	0	100	0
283-33.04	King Cove Lagoon	0	0	0	0	100	0
283-33.03	King Cove Lagoon	0	0	0	0	0	0
283-31.01	Fox Island Anchorage East	0	0	0	0	0	0
283-31.02	Fox Island Anchorage Center	0	0	0	0	0	0
283-31.03	Fox Island Anchorage West	0	0	0	0	0	0
283-31.05	Paw Cape Creek	0	0	0	0	0	0
283-31.06	Southern Creek	0	0	0	0	1,000	0
283-31.10	Eastern Creek	0	0	0	0	0	0
283-34.11	Lenard Harbor South	0	0	0	0	0	0
283-34.10	Lenard Harbor	0	0	200	200	0	0
283-34.09	Barney's Creek	0	0	0	0	0	0
283-34.07	Kinzarof Lagoon	0	0	0	0	2,000	0
283-34.06	Kinzarof Lagoon	0	0	Not Surveyed	0	0	0
283-34.05	Kinzarof Lagoon	0	0	300	0	0	0
283-34.03	Trout Creek	0	0	100	0	700	200
283-34.02	Russel Creek	0	0	0	0	2,200	400
283-34.01	Mortensen	600	0	0	0	3,000	0
283-32.01	Old Man's Lagoon	0	0	0	0	0	0
283-20.06	Thinpoint Lagoon & Entrance Channel	1,000	400	0	4,800	4,200	0
283-20.08	Thinpoint West	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
283-20.09	Thinpoint Lake Stream	0	0	Not Surveyed	0	0	0
283-20.10	Thinpoint Lake	0	0	Not Surveyed	0	0	0
283-20.04	Southwest Bight	0	0	0	0	0	0
283-20.03	Verskin's Bight	Not Surveyed	0	0	0	0	0
283-20.01	Sandy Cove Stream	0	0	0	0	1,000	0
283-23.03	Verskin's Bight	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0
283-11.01	Egg Island Stream	0	0	0	0	0	0
283-12.13	Little John Lagoon	0	0	0	0	1,000	0
283-12.12	Little John Sand Spit	0	0	0	0	0	0
283-12.11	Cannery	0	0	0	0	20	0
283-12.05	Middle Lagoon	0	0	0	22	0	0
283-12.01	Hansen's	0	0	0	0	0	0
283-60.08	Deadman's Cove	0	0	0	100	1,700	0
284-60.07	Whalebone	0	0	0	0	0	0
284-60.06	Sankin Bay	0	0	0	0	100	25
284-60.05	Whirl Point	0	0	0	0	0	0
284-60.04	Ikatan River	0	Not Surveyed	0	0	0	0
284-60.03	Swede's Lake	0	0	0	0	0	0
284-60.01	Ikatan Point	0	0	0	0	700	25
SOUTHWESTERN DISTRICT TOTAL		1,600	400	4,300	8,622	23,520	650

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Appendix A.4. (page 4 of 4).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
UNIMAK DISTRICT							
284-50.00	Dora Harbor Left	0	Not Surveyed	0	0	0	Not Surveyed
284-40.09	Otter Cove North	0	0	0	0	300	0
284-40.08	Otter Cove South	0	0	0	0	100	0
284-40.05	Lazaref River	0	0	0	Not Surveyed	Not Surveyed	Not Surveyed
283-10.10065	Sanak Village	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10070	Sanak Is. W.	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10080	Washwomen Creek	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.	Dodd's Bay E.	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.	Dodd's Bay W.	0	Not Surveyed				
283-10.10090	Sandy Bay	0	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
283-10.10100	Salmon Bay	5	Not Surveyed	Not Surveyed	Not Surveyed	0	Not Surveyed
UNIMAK DISTRICT TOTAL		5	0	0	0	400	0
TOTAL SOUTH PENINSULA		1,605	1,121	8,330	15,722	51,740	1,125

Appendix A.5. Chinook salmon peak escapement by district and stream for the North Peninsula, 1986-91.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
NORTHWESTERN DISTRICT							
311-30.05	Unnamed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	0
311-30.06	Unnamed	Not Surveyed	0				
311-30.07	Whaleback	0	0	0	0	0	0
311-30.08	Christianson	0	0	0	0	0	0
311-30.09	Mudhole	0	0	0	0	0	0
311-30.10	Clear Lagoon	0	0	0	0	0	0
311-40.01	Emil's River	0	0	0	0	0	0
311-40.04	North Creek	Not Surveyed	0	0	0	0	0
311-50.01	Big River	0	0	0	0	Not Surveyed	0
311-50.02	Swanson Lagoon	0	0	0	0	0	0
311-60.01	Mike's Valley	0	0	0	0	0	0
311-60.06	Anderson's	0	0	0	0	0	0
311-60.07	Traders Cove & .08	0	0	0	0	0	0
311-60.12	Warm Springs Bay	0	0	0	0	0	0
311-60.13	Hungry's Creek	0	0	0	0	0	0
312-20.01	Norma Bay	0	0	0	0	0	0
312-20.02	Mike's Duck Camp	0	0	0	0	0	0
312-20.03	Norma Bay South	0	0	0	0	0	0
312-20.04	Norma Bay South	0	0	0	0	0	0
312-20.05	Frosty Creek	0	0	0	0	0	0
312-20.51	Springs South of Frosty Cr	0	0	0	0	0	0
312-20.52	2nd stream W of Frosty Cr.	0	0	0	0	0	0
312-20.06	Blue Bill Lake	0	0	0	0	0	0
312-20.13	Outer Marker Lake	0	0	0	0	0	0
312-40.00	Spring fed 2 mi. SW of Joshua Green River	0	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed
312-40.01	Joshua Green River	0	0	100	0	30	100
312-40.02	Moffet Springs Creek	0	0	0	0	0	0
312-40.03	Moffet Creek	0	0	0	0	0	0
NORTHWESTERN DISTRICT TOTAL:		0	0	100	0	30	100
NORTHERN DISTRICT							
313-10.02	North Creek	200	1,400	600	75	300	200
313-10.05	Cathedral River	0	0	600	0	0	0
313-10.06	Trader Mt.	0	Not Surveyed	0	0	Not Surveyed	0
313-10.09	Amoco Airstrip	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
313-10.11	Black Hills	1,300	1,400	1,100	400	500	200
313-10.14	Steelhead	900	800	1,600	125	400	130
313-30.01	David's River	0	200	400	300	400	1,300
313-30.03	Nelson River /1	4,600	3,200	2,900	2,747	1,800	4,800
313-30.03	Petterson	50	Not Surveyed	Not Surveyed	Not Surveyed	60	170
313-30.??	Coastal Lake	0	0	0	0	0	0
314-20.02	Doe Valley	0	0	0	0	0	0
314-20.03	Buck Valley	0	0	0	0	0	0
314-20.04	Deer Valley	0	0	0	0	0	0
314-20.05	Portage Valley	0	0	0	0	0	0
314-20.06	Grass Valley	0	0	0	0	0	0
314-20.07	Lawrence Creek	0	0	0	0	0	0
314-20.08	Mine Harbor	0	0	0	Not Surveyed	Not Surveyed	0
314-20.09	Coal Creek	0	0	0	0	0	0
314-30.04	Mud Bay	0	0	0	0	0	0
314-30.05	Mud Bay	0	0	0	0	0	0
314-30.07	Right Head Creek	0	0	0	0	0	0
314-30.09	Right Head Creek	0	0	0	0	0	0
314-30.10	Left Head Creek	0	0	0	0	0	0

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Appendix A.5. (page 2 of 2).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
315-10.01	Frank's Lagoon	0	0	0	0	0	0
315-10.02	King Salmon	220	45	200	300	400	200
315-11.00	Bear Lake	Not Surveyed	Not Surveyed	15		Not Surveyed	Not Surveyed
315-11.02	Bear River, C & E /2	340	310	570	5	270	200
315-12.00	Sandy River and Lake	0	125	300	0	600	60
316-10.01	Lime Creek	0	0	0	Not Surveyed	Not Surveyed	Not Surveyed
316-10.02	Unnamed	0	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
316-10.04	Three Hills	0	Not Surveyed	0	0	0	0
316-10.05	Ocean River	0	0	200	20	20	20
316-10.06	Willie Creek	0	0	0	10	0	0
316-20.01	Ilnik River /3	0	0	0	0	0	0
316-20.04	Unangashak River	Not Surveyed	Not Surveyed	0	0	0	0
316-20.05	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-2	Charles Creek	150	0	0	0	100	100
317-4 A&B	Bluff Creek	150	85	0	0	320	550
317-6 A	Highland Creek	Not Surveyed	0	0	0	15	0
317-7	Meshik River	0	50	0	380	100	0
317-7 B	Braided Creek	25	25	80	200	70	150
317-7 C	Landlocked Creek	0	0	0	0	0	0
317-7 D	Bluff Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	0	0
317-7 E	Blue Violet Creek	400	35	15	3	200	0
317-7 F	Wolf Creek	Not Surveyed	0	0	0	18	50
317-7 G	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-7 H	Shoe Creek	0	175	0	0	16	0
317-7 K	Unnamed	0	0	0	0	17	0
317-7 L	Unnamed	0	200	0	0	4	0
317-7 M	Unnamed	Not Surveyed	0	0	0	0	0
317-7 N	Unnamed	Not Surveyed	0	0	0	34	0
317-7 O	Plenty Bear Creek	650	325	0	0	36	100
317-7 O-A	Plenty Bear Creek	40	55	0	0	10	0
317-7 P	Waterfall Creek	0	0	0	0	0	0
317-7 R	Rainbow Creek	850	425	100	15	0	0
317-7 T	Cub Creek	0	0	0	0	0	0
317-10.01	Reindeer Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-20.09	Barabara Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-20.08	Birthday Creek	0	0	0	0	0	0
318-20.01	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
313-20.02	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
318-20.04	Mud Creek	0	0	0	0	0	0
318-20.06	Cinder River	1,000	900	150	60	21	0
318-20.06	Lava Creek	100	Not Surveyed	20	0	50	0
318-20.06	High Creek	0	Not Surveyed	0	Not Surveyed	Not Surveyed	0
318-20.06	Meloy Creek	130	Not Surveyed	15	50	30	400
318-20.06	Wiggly Creek	150	Not Surveyed	55	100	15	100
318-20.06	Ray Creek	150	Not Surveyed	30	10	Not Surveyed	100
318-20.06	L Creek	140	Not Surveyed	15	5	15	40
NORTHERN DISTRICT TOTAL :		11,545	9,755	8,965	4,805	5,821	8,870
NORTH PENINSULA TOTAL:		11,545	9,755	9,065	4,805	5,851	8,970

Appendix A.6. Sockeye salmon peak escapement by district and stream for the North Peninsula, 1986-91.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
NORTHWESTERN DISTRICT							
311-30.05	Unnamed	0	Not Surveyed				
311-30.06	Unnamed	Not Surveyed	2,400				
311-30.07	Whaleback	36,300	21,900	28,600	43,000	40,600	58,000
311-30.08	Christianson	500	400	1,100	1,700	3,000	1,500
311-30.09	Mudhole	1,200	1,000	0	2,000	2,000	200
311-30.10	Clear Lagoon	150	600	100	2,000	600	200
311-40.01	Emil's River	30	15	0	0	20	170
311-40.04	North Creek	Not Surveyed	0	0	0	0	0
311-50.01	Big River	0	0	0	0	Not Surveyed	0
311-50.02	Swanson Lagoon	5,700	8,700	1,700	2,700	31,000	10,000
311-60.01	Mike's Valley	0	0	0	0	10	3
311-60.06	Anderson's	0	0	0	0	0	0
311-60.07	Traders Cove & .08	0	0	0	0	0	0
311-60.12	Warm Springs Bay	0	0	0	0	0	0
311-60.13	Hungry's Creek	100	0	100	100	300	50
312-20.01	Norma Bay	260	180	250	500	700	110
312-20.02	Mike's Duck Camp	0	0	0	0	0	0
312-20.03	Norma Bay South	0	0	0	0	0	0
312-20.04	Norma Bay South	0	0	0	0	0	0
312-20.05	Frosty Creek	0	200	20	100	0	0
312-20.51	Springs South of Frosty Cr	0	100	0	0	0	200
312-20.52	2nd stream W of Frosty Cr.	1,000	0	0	0	50	400
312-20.06	Blue Bill Lake	2,300	1,100	2,000	2,600	10,000	10,100
312-20.13	Outer Marker Lake	260	500	450	1,100	3,600	3,000
312-40.00	Spring fed 2 mi. SW of Joshua Green River	0	0	0	Not Surveyed	Not Surveyed	Not Surveyed
312-40.01	Joshua Green River	8,800	5,500	8,600	10,000	6,400	9,700
312-40.02	Moffet Springs Creek	100	25	100	100	150	400
312-40.03	Moffet Creek	3,000	2,500	2,000	1,500	900	1,100
NORTHWESTERN DISTRICT TOTAL:		59,700	42,720	45,020	67,400	99,330	97,533
NORTHERN DISTRICT							
313-10.02	North Creek	2,100	8,300	6,300	7,000	5,100	9,900
313-10.05	Cathedral River	20	400	0	600	560	10
313-10.06	Trader Mt.	200	0	0	0	Not Surveyed	0
313-10.09	Amoco Airstrip	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
313-10.11	Black Hills	0	0	0	0	0	0
313-10.14	Steelhead	0	0	0	0	0	0
313-30.01	David's River	2,600	9,400	8,000	3,040	17,800	4,300
313-30.02	Caribou River	1,400	300	1,450	1,900	2,800	2,650
313-30.03	Nelson River /1	10,209	78,300	13,835	21,042	16,588	38,612
313-30.03	Petterson	0	0	Not Surveyed	Not Surveyed	0	0
313-30.??	Coastal Lake	200	1,600	2,200	3,300	6,400	1,700
314-20.02	Doe Valley	0	0	0	0	0	0
314-20.03	Buck Valley	0	0	0	0	0	0
314-20.04	Deer Valley	0	50	0	10	20	0
314-20.05	Portage Valley	0	0	0	0	0	0
314-20.06	Grass Valley	300	500	200	500	400	100
314-20.07	Lawrence Creek	0	0	0	0	0	0
314-20.08	Mine Harbor	0	0	0	Not Surveyed	Not Surveyed	0
314-20.09	Coal Creek	3	0	0	0	0	0
314-30.04	Mud Bay	0	0	0	0	0	0
314-30.05	Mud Bay	0	0	0	0	0	0
314-30.07	Right Head Creek	0	0	0	0	0	0
314-30.09	Right Head Creek	0	0	0	0	0	0
314-30.10	Left Head Creek	0	0	0	0	0	0

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Appendix A.6. (page 2 of 2).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
315-10.01	Frank's Lagoon	0	0	0	0	0	0
315-10.02	King Salmon	0	0	0	0	0	0
315-11.00	Bear Lake	Not Surveyed		29,759	Not Surveyed	Not Surveyed	0
315-11.02	Bear River C & E /2	21,402	1,400	0	27,087	25,790	49,134
315-12.00	Sandy River and Lake	6,900	8,900	34,500	36,000	17,500	75,200
316-10.01	Lime Creek	20	0	0	Not Surveyed	Not Surveyed	Not Surveyed
316-10.02	Unnamed	1	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
316-10.04	Three Hills	60		30	100	100	200
316-10.05	Ocean River	4,200	2,500	5,300	100	4,300	67,700
316-10.06	Willie Creek	8,700	6,350	3,800	3,300	8,100	23,400
316-20.01	Ilnik River /3	44,200	14,500	18,800	12,000	24,000	16,349
316-20.04	Unangashak River	Not Surveyed		0	130	0	0
316-20.05	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-2	Charles Creek	330	960	400	220	460	800
317-4 A&B	Bluff Creek	3,000	580	8,500	4,580	3,630	5,300
317-6 A	Highland Creek	Not Surveyed	450	0	680	170	700
317-7	Meshik River	28,000	8,250	2,480	0	22,540	0
317-7 B	Braided Creek	50	125	600	0	0	100
317-7 C	Landlocked Creek	1,000	45	4,800	900	500	1,000
317-7 D	Bluff Creek	Not Surveyed	10,050	Not Surveyed	Not Surveyed	5,000	4,700
317-7 E	Blue Violet Creek	7,200	7,250	5,500	1,740	3,000	6,100
317-7 F	Wolf Creek	Not Surveyed	1,250	800	150	500	3,700
317-7 G	Unnamed	Not Surveyed	150	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-7 H	Shoe Creek	550	550	220	170	0	500
317-7 K	Unnamed	3,100	5,850	2,400	950	770	480
317-7 L	Unnamed	2,350	700	1,100	220	300	200
317-7 M	Unnamed	Not Surveyed	275	80	400	1,600	500
317-7 O	Plenty Bear Creek	0	0	500	0	0	1,600
317-7 O-A	Plenty Bear Creek	0	0	200	0	0	100
317-7 P	Waterfall Creek	25	0	0	0	0	0
317-7 R	Rainbow Creek	0	0	0	0	0	0
317-7 T	Cub Creek	0	0	0	0	0	100
317-10.01	Reindeer Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-20.09	Barabara Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-20.08	Birthday Creek	0	0	0	0	0	100
318-20.01	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
313-20.02	Unnamed	Not Surveyed	2,600	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
318-20.04	Mud Creek	0	0	0	0	0	8,100
318-20.06	Cinder River	8,000	12,700	600	700	3,840	4,000
318-20.06	Lava Creek	17,000		800	3,000	2,870	24,000
318-20.06	High Creek	320		10	Not Surveyed	Not Surveyed	700
318-20.06	Meloy Creek	330		400	250	1,280	4,900
318-20.06	Wiggly Creek	0		0	0	0	4,500
318-20.06	Ray Creek	0		0	0	Not Surveyed	200
318-20.06	L Creek	0		0	0	3,840	1,000
NORTHERN DISTRICT TOTAL :		173,770	184,285	156,064	131,039	180,108	362,635
NORTH PENINSULA TOTAL:		233,470	227,005	201,084	198,439	279,438	460,168

Appendix A.7. Pink salmon peak escapement by district and stream for the North Peninsula, 1986-91.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
NORTHWESTERN DISTRICT							
311-20.15	Tugamak River	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	200
311-30.05	Unnamed	300	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
311-30.06	Unnamed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
311-30.07	Whaleback	0	0	0	0	0	0
311-30.08	Christianson	0	0	0	0	0	0
311-30.09	Mudhole	0	0	0	0	0	0
311-30.10	Clear Lagoon	0	0	0	0	0	0
311-40.01	Emil's River	0	0	0	0	0	0
311-40.04	North Creek	Not Surveyed	0	0	0	0	0
311-50.01	Big River	0	0	0	0	Not Surveyed	0
311-50.02	Swanson Lagoon	0	0	0	0	0	0
311-60.01	Mike's Valley	600	0	7,700	700	100	500
311-60.06	Anderson's	2,500	500	1,800	250	3,800	200
311-60.07	Traders Cove & .08	3,200	500	12,100	0	11,600	100
311-60.12	Warm Springs Bay	0	25	0	0	100	0
311-60.13	Hungry's Creek	2,000	0	4,500	800	4,800	200
312-20.01	Norma Bay	0	0	0	0	0	0
312-20.02	Mike's Duck Camp	0	0	0	0	100	0
312-20.03	Norma Bay South	0	0	0	0	0	0
312-20.04	Norma Bay South	0	0	0	0	0	0
312-20.05	Frosty Creek	0	0	0	0	0	0
312-20.51	Springs South of Frosty	0	0	0	0	0	0
312-20.52	2nd stream W of Frosty	0	0	0	0	0	0
312-20.06	Blue Bill Lake	0	0	0	0	0	0
312-20.13	Outer Marker Lake	0	0	0	0	0	0
312-40.00	Spring fed 2 mi. SW of Joshua Green River	0	Not Surveyed	0	0	Not Surveyed	0
312-40.01	Joshua Green River	0	0	0	0	300	0
312-40.02	Moffet Springs Creek	0	0	0	0	0	0
312-40.03	Moffet Creek	0	0	0	0	1,500	0
NORTHWESTERN DISTRICT TOTAL:		8,600	1,025	26,100	1,750	22,300	1,000
NORTHERN DISTRICT							
313-10.02	North Creek	0	0	0	0	0	100
313-10.05	Cathedral River	0	0	0	0	0	0
313-10.06	Trader Mt.	0	Not Surveyed	180	0	Not Surveyed	0
313-10.09	Amoco Airstrip	Not Surveyed	0	Not Surveyed	0	Not Surveyed	0
313-10.11	Black Hills	0	0	0	0	0	0
313-10.14	Steelhead	0	0	0	0	0	0
313-30.01	David's River	0	0	0	0	0	0
313-30.02	Caribou River	0	0	0	0	0	0
313-30.03	Nelson River /1	0	0	0	4	2	0
313-30.03	Petterson	0	Not Surveyed	Not Surveyed	0	0	0
313-30.??	Coastal Lake	0	0	0	0	0	0
314-20.02	Doe Valley	0	0	0	0	0	0
314-20.03	Buck Valley	0	0	0	0	0	0
314-20.04	Deer Valley	0	0	0	0	0	0
314-20.05	Portage Valley	0	0	0	0	0	0
314-20.06	Grass Valley	0	0	0	0	0	0
314-20.07	Lawrence Creek	0	0	0	0	100,000	0
314-20.08	Mine Harbor	0	0	0	0	Not Surveyed	0
314-20.09	Coal Creek	0	0	0	0	0	0
314-30.04	Mud Bay	0	0	0	0	0	0
314-30.05	Mud Bay	0	0	0	0	0	0
314-30.07	Right Head Creek	0	0	0	0	0	0
314-30.09	Right Head Creek	0	0	0	0	0	0
314-30.10	Left Head Creek	0	0	0	0	0	0

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Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
315-10.01	Frank's Lagoon	0	0	0	0	0	0
315-10.02	King Salmon	0	0	0	0	0	0
315-11.00	Bear Lake	Not Surveyed	Not Surveyed	62		Not Surveyed	0
315-11.02	Bear River C & E /2	0	0	0	117	468	0
315-12.00	Sandy River and Lake	0	0	0	0	0	0
316-10.01	Lime Creek	0	0	0		Not Surveyed	0
316-10.02	Unnamed	0	0	Not Surveyed		Not Surveyed	0
316-10.04	Three Hills	0	Not Surveyed	0	0	0	0
316-10.05	Ocean River	0	0	0	0	0	0
316-10.06	Willie Creek	0	0	0	0	0	0
316-20.01	Ilnik River /3	0	0	0	0	0	0
316-20.04	Unangashak River	Not Surveyed	Not Surveyed	0	0	0	0
316-20.05	Unnamed	Not Surveyed	0	Not Surveyed		Not Surveyed	0
317-2	Charles Creek	0	0	0	0	0	0
317-4 A&B	Bluff Creek	0	0	0	0	0	0
317-6 A	Highland Creek	Not Surveyed	0	0	0	0	0
317-7	Meshik River	0	0	0	0	0	0
317-7 B	Braided Creek	0	0	0	0	0	0
317-7 C	Landlocked Creek	0	0	0	0	0	0
317-7 D	Bluff Creek	Not Surveyed	0	Not Surveyed		0	0
317-7 E	Blue Violet Creek	0	0	0	0	0	0
317-7 F	Wolf Creek	Not Surveyed	0	0	0	0	0
317-7 G	Unnamed	Not Surveyed	0	Not Surveyed		Not Surveyed	0
317-7 H	Shoe Creek	0	0	0	0	0	0
317-7 K	Unnamed	0	0	0	0	0	0
317-7 L	Unnamed	0	0	0	0	0	0
317-7 M	Unnamed	Not Surveyed	0	0	0	0	0
317-7 N	Unnamed	Not Surveyed	0	0	0	0	0
317-7 O	Plenty Bear Creek	0	0	0	0	0	0
317-7 O-A	Plenty Bear Creek	0	0	0	0	0	0
317-7 P	Waterfall Creek	0	0	0	0	0	0
317-7 R	Rainbow Creek	0	0	0	0	0	0
317-7 T	Cub Creek	0	0	0	0	0	0
317-10.01	Reindeer Creek	Not Surveyed	0	Not Surveyed		Not Surveyed	0
317-20.09	Barabara Creek	Not Surveyed	0	Not Surveyed		Not Surveyed	0
317-20.08	Birthday Creek	0	0	0	0	0	0
318-20.01	Unnamed	Not Surveyed	0	Not Surveyed		Not Surveyed	0
313-20.02	Unnamed	Not Surveyed	0	Not Surveyed		Not Surveyed	0
318-20.04	Mud Creek	0	0	0	0	0	0
318-20.06	Cinder River	0	0	0	0	0	0
318-20.06	Lava Creek	0	Not Surveyed	0	0	0	0
318-20.06	High Creek	0	Not Surveyed	0		Not Surveyed	0
318-20.06	Meloy Creek	0	Not Surveyed	0	0	0	0
318-20.06	Wiggly Creek	0	Not Surveyed	0	0	0	0
318-20.06	Ray Creek	0	Not Surveyed	0	0	Not Surveyed	0
318-20.06	L Creek	0	Not Surveyed	0	0	0	0
NORTHERN DISTRICT TOTAL :		0	0	242	121	100,470	100
NORTH PENINSULA TOTAL :		8,600	1,025	26,342	1,871	122,770	1,100

Appendix A.8. Chum salmon peak escapement by district and stream for the North Peninsula, 1986-91.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
NORTHWESTERN DISTRICT							
311-20.15	Tugamak River	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	800
311-30.05	Unnamed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
311-30.06	Unnamed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
311-30.07	Whaleback	500	0	2,000	2,000	0	0
311-30.08	Christianson	0	0	0	0	0	0
311-30.09	Mudhole	1,200	10,000	5,500	2,000	200	1,000
311-30.10	Clear Lagoon	10	2,600	400	500	200	0
311-40.01	Emil's River	300	200	1,500	0	50	200
311-40.04	North Creek	Not Surveyed	1,100	200	200	25	0
311-50.01	Big River	300	500	1,100	800	Not Surveyed	1,600
311-50.02	Swanson Lagoon	5,100	3,000	6,000	1,200	1,800	1,700
311-60.01	Mike's Valley	5,200	8,600	5,000	2,600	2,400	9,000
311-60.06	Anderson's	100	100	1,000	100	400	400
311-60.07	Traders Cove & .08	4,800	6,500	1,600	1,500	2,300	2,100
311-60.12	Warm Springs Bay	3,800	3,000	500	400	2,100	1,500
311-60.13	Hungry's Creek	0	20	200	0	200	0
312-20.01	Norma Bay	0	0	200	50	200	0
312-20.02	Mike's Duck Camp	1,100	2,100	3,900	2,300	700	1,700
312-20.03	Norma Bay South	8,500	11,600	7,300	5,400	2,700	5,900
312-20.04	Norma Bay South	400	3,000	4,200	900	1,000	800
312-20.05	Frosty Creek	3,900	8,100	18,700	8,000	6,300	7,500
312-20.51	Springs South of Frosty	1,700	8,000	3,200	3,000	1,100	1,000
312-20.52	2nd stream W of Frosty	1,300	3,600	2,100	1,900	200	500
312-20.06	Blue Bill Lake	0	100	0	0	0	0
312-20.13	Outer Marker Lake	200	200	500	100	0	300
312-40.00	Spring fed 2 mi. SW of Joshua Green River	400	Not Surveyed	200	Not Surveyed	Not Surveyed	0
312-40.01	Joshua Green River	46,100	87,700	93,700	25,000	35,900	46,400
312-40.02	Moffet Springs Creek	4,200	8,000	14,900	7,700	19,400	23,700
312-40.03	Moffet Creek	4,800	5,000	15,900	7,800	3,170	19,200
NORTHWESTERN DISTRICT TOTAL:		93,910	173,020	189,800	73,450	80,345	125,300
NORTHERN DISTRICT							
313-10.02	North Creek	700	2,700	6,500	700	320	1,000
313-10.05	Cathedral River	0	0	0	0	0	0
313-10.06	Trader Mt.	0	Not Surveyed	80	30	Not Surveyed	200
313-10.09	Amoco Airstrip	Not Surveyed	20	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
313-10.11	Black Hills	0	0	0	0	0	0
313-10.14	Steelhead	0	0	0	0	0	0
313-30.01	David's River	0	0	0	0	0	0
313-30.02	Caribou River	0	0	0	0	0	0
313-30.03	Nelson River /1	5,000	5,200	11,000	620	63	0
313-30.03	Petterson	0	Not Surveyed	Not Surveyed	Not Surveyed	0	0
313-30.??	Coastal Lake	0	0	0	0	0	0
314-20.02	Doe Valley	800	3,400	700	500	1,200	600
314-20.03	Buck Valley	1,400	2,900	2,000	800	3,000	1,300
314-20.04	Deer Valley	6,400	20,900	5,800	5,400	9,400	2,800
314-20.05	Portage Valley	1,350	3,200	0	0	310	50
314-20.06	Grass Valley	8,000	14,200	11,600	7,700	10,000	15,300
314-20.07	Lawrence Creek	14,000	10,900	3,400	11,000	28,000	21,600
314-20.08	Mine Harbor	125	1,200	150	Not Surveyed	Not Surveyed	0
314-20.09	Coal Creek	2,900	7,200	2,500	3,300	18,500	1,100
314-30.04	Mud Bay	1,400	3,000	4,000	2,500	1,300	700
314-30.05	Mud Bay	1,500	2,300	2,600	1,300	1,400	500
314-30.07	Right Head Creek	350	600	215	200	700	100
314-30.09	Right Head Creek	3,800	5,900	6,600	1,000	1,500	600
314-30.10	Left Head Creek	4,200	7,800	2,300	1,000	400	1,600

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Appendix A.8. (page 2 of 2).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
315-10.01	Frank's Lagoon	5,700	3,600	1,300	1,300	370	200
315-10.02	King Salmon	700	75	0	0	0	80
315-11.00	Bear Lake	Not Surveyed	Not Surveyed	27	Not Surveyed	Not Surveyed	0
315-11.02	Bear River C & E /2	0	0	0	27	25	14
315-12.00	Sandy River and Lake	0	15	0	0	0	0
316-10.01	Lime Creek	40	50	0	Not Surveyed	Not Surveyed	Not Surveyed
316-10.02	Unnamed	5	75	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
316-10.04	Three Hills	0	Not Surveyed	0	0	0	0
316-10.05	Ocean River	0	0	0	0	0	0
316-10.06	Willie Creek	0	0	0	0	0	0
316-20.01	Ilnik River /3	0	0	0	0	0	0
316-20.04	Unangashak River	Not Surveyed	Not Surveyed	0	0	0	0
316-20.05	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-2	Charles Creek	0	0	25	0	300	300
317-4 A&B	Bluff Creek	1,150	400	400	60	1,530	1,000
317-6 A	Highland Creek	Not Surveyed	0	0	0	50	0
317-7	Meshik River	700	1,300	0	980	340	0
317-7 B	Braided Creek	220	225	5,900	560	200	400
317-7 C	Landlocked Creek	30	375	550	0	200	0
317-7 D	Bluff Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	1,500	0
317-7 E	Blue Violet Creek	1,330	975	4,900	1,070	900	700
317-7 F	Wolf Creek	Not Surveyed	2,400	2,650	580	140	1,200
317-7 G	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	1,400
317-7 H	Shoe Creek	2,300	3,100	2,400	900	470	0
317-7 K	Unnamed	350	900	1,100	200	0	0
317-7 L	Unnamed	250	1,900	800	280	0	0
317-7 M	Unnamed	Not Surveyed	0	20	480	0	100
317-7 N	Unnamed	Not Surveyed	200	0	0	230	2,000
317-7 O	Plenty Bear Creek	2,200	7,750	5,700	0	470	3,200
317-7 O-A	Plenty Bear Creek	380	4,900	9,800	0	170	1,600
317-7 P	Waterfall Creek	100	175	0	90	0	200
317-7 R	Rainbow Creek	450	900	2,500	450	40	400
317-7 T	Cub Creek	5	75	75	120	0	100
317-10.01	Reindeer Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-20.09	Barabara Creek	Not Surveyed	60	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
317-20.08	Birthday Creek	850	0	630	350	480	800
318-20.01	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
313-20.02	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
318-20.04	Mud Creek	0	6	0	0	0	0
318-20.06	Cinder River	1,000	6,200	100	500	370	1,800
318-20.06	Lava Creek	0	Not Surveyed	75	3,000	400	100
318-20.06	High Creek	0	Not Surveyed	0	Not Surveyed	Not Surveyed	0
318-20.06	Meloy Creek	80	Not Surveyed	1,500	400	150	1,400
318-20.06	Wiggly Creek	950	Not Surveyed	2,250	600	2,200	500
318-20.06	Ray Creek	100	Not Surveyed	300	300	Not Surveyed	300
318-20.06	L Creek	30	Not Surveyed	150	0	350	350
NORTHERN DISTRICT TOTAL :		70,845	127,076	102,597	48,297	86,978	65,594
NORTH PENINSULA TOTAL:		164,755	300,096	292,397	121,747	167,323	190,894

Appendix A.9. Coho salmon peak escapement by district and stream for the North Peninsula, 1986-91.

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
NORTHWESTERN DISTRICT							
311-30.05	Unnamed	0	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
311-30.06	Unnamed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed	Not Surveyed
311-30.07	Whaleback	0	3,000	0	0	1,100	0
311-30.08	Christianson	0	0	0	0	200	0
311-30.09	Mudhole	0	0	0	0	0	0
311-30.10	Clear Lagoon	0	0	0	0	0	0
311-40.01	Emil's River	0	0	0	0	0	0
311-40.04	North Creek	Not Surveyed	0	0	0	400	0
311-50.01	Big River	0	0	0	0	Not Surveyed	0
311-50.02	Swanson Lagoon	2,000	7,500	0	11,000	4,500	100
311-60.01	Mike's Valley	200	0	0	200	0	0
311-60.06	Anderson's	0	0	0	0	0	0
311-60.07	Traders Cove & .08	0	0	0	0	700	0
311-60.12	Warm Springs Bay	0	0	0	0	300	0
311-60.13	Hungry's Creek	0	0	0	0	0	0
312-20.01	Norma Bay	0	0	0	0	0	0
312-20.02	Mike's Duck Camp	0	0	0	0	0	0
312-20.03	Norma Bay South	0	0	0	0	0	0
312-20.04	Norma Bay South	0	0	0	0	0	0
312-20.05	Frosty Creek	0	0	0	0	0	0
312-20.51	Springs South of Frosty	0	0	0	0	0	0
312-20.52	2nd stream W of Frosty	0	0	0	0	0	0
312-20.06	Blue Bill Lake	0	0	0	0	0	0
312-20.13	Outer Marker Lake	0	0	0	0	0	0
312-40.00	Spring fed 2 mi. SW of Joshua Green River	0	Not Surveyed	0	Not Surveyed	Not Surveyed	0
312-40.01	Joshua Green River	0	0	0	4,000	500	0
312-40.02	Moffet Springs Creek	0	0	0	0	200	0
312-40.03	Moffet Creek	0	0	0	0	700	0
NORTHWESTERN DISTRICT TOTAL:		2,200	10,500	0	15,200	8,600	0
NORTHERN DISTRICT							
313-10.02	North Creek	0	0	0	0	1,800	0
313-10.05	Cathedral River	0	0	0	0	0	0
313-10.06	Trader Mt.	0	Not Surveyed	0	0	Not Surveyed	0
313-10.09	Amoco Airstrip	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
313-10.11	Black Hills	0	0	0	200	0	0
313-10.14	Steelhead	0	0	0	300	0	0
313-30.01	David's River	700	400	700	0	500	1,000
313-30.02	Caribou River	0	0	0	0	0	0
313-30.03	Nelson River /1	23,000	27,500	17,000	32,000	30,000	33,000
313-30.03	Petterson	0	Not Surveyed	Not Surveyed	Not Surveyed	0	0
313-30.??	Coastal Lake	0	0	0	0	0	0
314-20.02	Doe Valley	0	0	0	0	0	0
314-20.03	Buck Valley	0	0	0	0	0	0
314-20.04	Deer Valley	0	0	0	0	0	0
314-20.05	Portage Valley	0	0	0	0	0	0
314-20.06	Grass Valley	0	0	0	0	0	0
314-20.07	Lawrence Creek	0	0	0	0	0	0
314-20.08	Mine Harbor	0	0	0	Not Surveyed	Not Surveyed	0
314-20.09	Coal Creek	0	0	0	0	0	0
314-30.04	Mud Bay	0	0	0	0	0	0
314-30.05	Mud Bay	0	0	0	0	0	0
314-30.07	Right Head Creek	0	0	0	0	0	0
314-30.09	Right Head Creek	0	0	0	0	0	0
314-30.10	Left Head Creek	0	0	0	0	0	0

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Appendix A.9. (page 2 of 2).

Stream Number	Stream Name/Location	Year					
		1986	1987	1988	1989	1990	1991
315-10.01	Frank's Lagoon	0	0	0	0	0	0
315-10.02	King Salmon	0	0	0	0	100	0
315-11.00	Bear Lake	Not Surveyed	Not Surveyed	2	Not Surveyed	Not Surveyed	0
315-11.02	Bear River C & E /2	0	0	0	14	0	0
315-12.00	Sandy River and Lake	0	0	0	0	0	0
316-10.01	Lime Creek	0	0	25	Not Surveyed	Not Surveyed	0
316-10.02	Unnamed	0	0	Not Surveyed	Not Surveyed	Not Surveyed	0
316-10.04	Three Hills	0	0	0	0	0	0
316-10.05	Ocean River	0	3,100	7,000	0	1,000	0
316-10.06	Willie Creek	0	200	0	0	0	0
316-20.01	Ilnik River /3	25,000	8,000	8,500	25,300	24,000	27,000
316-20.04	Unangashak River	Not Surveyed	Not Surveyed	6,000	1,400	0	1,500
316-20.05	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
317-2	Charles Creek	0	40	0	0	0	0
317-4 A&B	Bluff Creek	0	40	0	0	0	0
317-6 A	Highland Creek	Not Surveyed	0	0	0	0	0
317-7	Meshik River	8,000	25,800	17,500	27,000	19,000	3,000
317-7 B	Braided Creek	0	0	0	0	0	0
317-7 C	Landlocked Creek	0	3,100	0	0	0	0
317-7 D	Bluff Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	0	0
317-7 E	Blue Violet Creek	0	0	0	0	0	0
317-7 F	Wolf Creek	Not Surveyed	0	0	0	0	0
317-7 G	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
317-7 H	Shoe Creek	0	0	0	0	0	0
317-7 K	Unnamed	0	0	0	0	0	0
317-7 L	Unnamed	0	0	0	0	0	0
317-7 M	Unnamed	Not Surveyed	0	0	0	0	0
317-7 N	Unnamed	Not Surveyed	0	0	0	0	0
317-7 O	Plenty Bear Creek	0	0	0	0	0	0
317-7 O-A	Plenty Bear Creek	0	0	0	0	0	0
317-7 P	Waterfall Creek	0	0	0	0	0	0
317-7 R	Rainbow Creek	0	0	0	0	0	0
317-7 T	Cub Creek	0	0	0	0	0	0
317-10.01	Reindeer Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
317-20.09	Barabara Creek	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
317-20.08	Birthday Creek	0	0	0	0	0	0
318-20.01	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
313-20.02	Unnamed	Not Surveyed	0	Not Surveyed	Not Surveyed	Not Surveyed	0
318-20.04	Mud Creek	3,000	300	6,000	6,200	4,000	6,300
318-20.06	Cinder River	2,000	2,400	3,900	0	3,000	2,000
318-20.06	Lava Creek	0	Not Surveyed	0	0	0	0
318-20.06	High Creek	0	Not Surveyed	0	Not Surveyed	Not Surveyed	0
318-20.06	Meloy Creek	0	Not Surveyed	0	0	0	0
318-20.06	Wiggly Creek	0	Not Surveyed	0	0	0	0
318-20.06	Ray Creek	0	Not Surveyed	0	0	Not Surveyed	0
318-20.06	L Creek	0	Not Surveyed	0	0	0	0
NORTHERN DISTRICT TOTAL :		61,700	70,880	66,627	92,414	83,400	73,800
NORTH PENINSULA TOTAL :		63,900	81,380	66,627	107,614	92,000	73,800

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