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STATE OF ALASKA
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SOUTHEASTERN ALASKA COMMERCIAL TROLL FISHERY

By:
Alan Davis

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ALASKA DEPARTMENT OF FISH AND GAME
Subport Building, Juneau, Alaska 99801

James W. Brooks
Commissioner

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

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SOUTHEASTERN ALASKA COMMERCIAL TROLL FISHERY

By

Alan Davis, Fishery Biologist
Alaska Department of Fish and Game
Division of Commercial Fisheries
Sitka, Alaska

INTRODUCTION

The Alaska Department of Fish and Game began the Ocean Troll Fishery Program in 1970 to provide assessment and evaluation of trends in this historic hook and line fishery. Emphasis of the studies has been on catches of chinook or king, coho and pink salmon. These species are the most commercially important, although catches of sockeye and chum have been increasing.

STATUS OF THE FISHERY

Chinook Salmon

Power troll chinook landings in Southeastern Alaska were 259,136 fish in 1975 (Table 1). Hand troll landings were 28,201 fish. Average weight for chinook landed by power gear was 13.2 pounds. Average weight for chinook landed by hand gear was 13.5 pounds. Total troll gear landings for 1975 were 287,337 fish at 3,792,133 pounds (Table 2). Statistical areas exhibiting troll catches of more than 20,000 chinook were 101 (24,232), 103 (24,629), 104 (47,842), 113 (62,166) and 157 (39,969), (see Appendix Figure A for map of statistical areas). These areas produced approximately 77% of the Southeastern Alaska troll catch. Effort in areas 157 and 116, or those areas north and west of Cape Spencer, has been increasing in recent years (Figure 1). Average weight for chinook caught in these waters was generally less than the average weight for the other areas in Southeastern Alaska (Figure 2). Average difference in weight of chinooks between the areas north and south of Cape Spencer for the years 1971 to 1975 was 2.9 pounds.

Coho Salmon

The commercial troll fishery landed 173,146 coho by power troll gear and 41,104 coho by hand troll gear for a total of 214,250 fish (Tables 1 and 2). Total pounds delivered by both gears was 1,294,794 for an average

Table 1. Power Gurdy Troll Chinook, Coho and Pink Salmon Landings by Area-1975.

AREA	LANDINGS	CHINOOK	COHO	PINK
101	706	24,232	52,222	7,222
102	164	5,131	9,305	852
103	2,398	24,629	23,129	3,417
104	1,498	47,842	29,283	8,041
105	280	6,425	8,502	5,372
106	485	8,065	4,944	8,948
107	181	4,321	557	602
108	63	1,021	--	--
109	373	3,122	7,007	192
110	183	6,560	2,004	489
111	254	3,140	2,548	1,054
112	65	738	43	2
113	1,576	62,166	12,677	3,513
114	1,448	13,665	10,932	7,058
115	12	710	--	--
116	224	4,136	2,583	455
152	1	120	16	6
154	1	98	--	--
157	284	39,969	7,134	777
181	3	293	7	1
183	41	2,620	140	22
191	4	124	113	1
TOTAL	10,244	259,136	173,146	48,024

Table 2. Salmon Catch by Troll Gear - 1971 to 1975.

Year	Landings	Chinook Number	Chinook Pounds	Sockeye Number	Sockeye Pounds	Coho Number	Coho Pounds	Pink Number	Pink Pounds	Chum Number	Chum Pounds	Total Number	Total Pounds
1971	21,490	330,095	4,357,254	1,931	12,165	458,903	3,487,662	125,225	438,287	11,888	87,971	928,042	8,383,339
1972	21,103	241,620	2,843,238	977	5,776	791,623	4,890,219	166,637	534,426	11,531	86,011	1,034,220	8,359,670
1973	24,913	307,598	4,283,929	2,118	13,704	540,457	3,807,368	137,106	456,660	11,531	93,729	998,810	8,656,400
1974	29,797	322,129	4,376,843	2,602	17,800	846,422	5,721,685	263,466	950,197	13,805	114,673	1,448,424	11,181,180
1975	17,464	287,337	3,792,133	1,098	9,355	214,250	1,294,794	76,873	249,459	2,784	22,758	592,342	5,368,499
5 year average	22,953	297,755	3,930,681	1,745	11,760	570,313	3,840,345	153,861	525,802	10,212	81,028	1,033,886	8,389,817

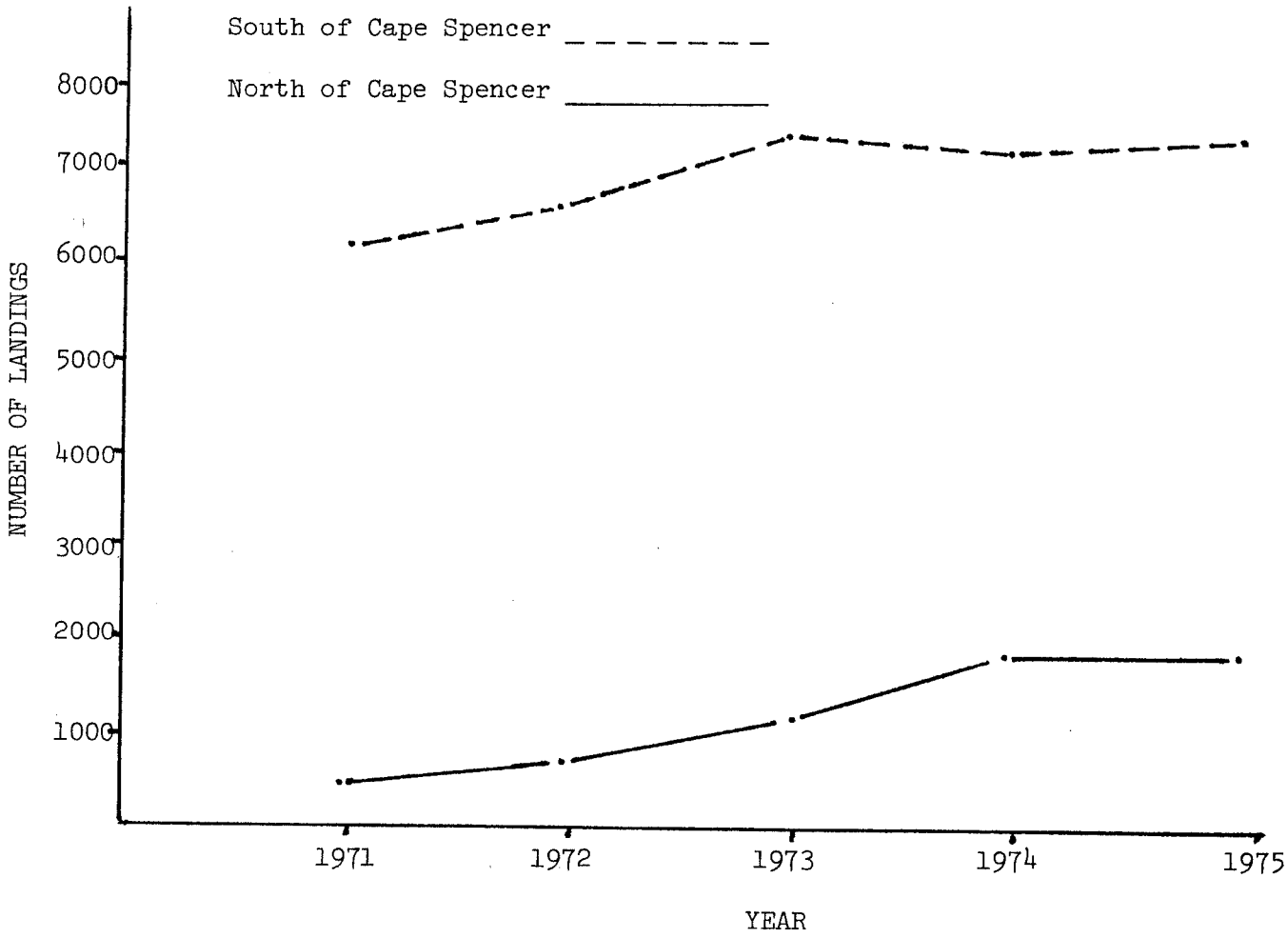


Figure 1. Chinook Salmon Landings by Troll Gear North and South of Cape Spencer, 1971-1975

Figure 2. Chinook Salmon Average Weight North and South of Cape Spencer Taken by Troll Gear, 1971-1975

weight of 6.0 pounds. The commercial troll fishery was closed to the taking of coho in all areas from August 15, 1975 to September 1, 1975.

Pink Salmon and Miscellaneous Catch

Power troll gear landed 48,024 pinks in 1975 and hand troll gear landed 28,849. Total landed weight for both gears was 249,459 pounds. Sockeye landings were 1,098 fish and chum landings were 2,784 fish.

Effort

The reduction in numbers of landings made in 1975 in the commercial troll fishery was the result of closures in the fishery to protect weak runs of coho. Total landings were 24,913 in 1973; 29,797 in 1974; and 17,464 in 1975 (Table 2). There were 1,100 boats landing fish under hand troll permits and 806 boats landing fish under power troll permits in 1975.

TROLL FISHERY STUDIES

The Ocean Troll Fishery Program's studies in 1975 included: (1) A port sampling program to determine age, weight, and length of chinook and coho in the commercial catch, incidence of fin marked or wire tagged fish, quantitative evaluation of high seas gillnet marks, daily landings at four major ports; and (2) aircraft surveys of vessel distribution to determine various locations of fishing concentration.

Port Sampling Program

Port sampling was conducted between the months of May and September at four locations in Southeastern Alaska during 1975. The locations and times during which sampling was conducted are as follows: Pelican (May 16-September 20), Petersburg (May 21 - September 20), Craig (May 19 - September 20), and Sitka (May 7 - September 20).

Random sampling for age, weight, and length of the commercial troll catch was done throughout the season at each of the ports. Scales from chinook were taken and corresponding weight and length measurements were recorded. The primary purpose of this sampling was to determine if any long term changes were occurring in the age class structure of the commercial troll catch as well as recording any yearly fluctuations in age class or size changes.

A greater number of 2-ocean and fewer 3-ocean aged chinook were present in the fishery in 1975 than in the previous year according to our sampling (Table 3).

Table 3. Troll Caught Chinook - Age Composition

1974										
Age	0.2	0.3	0.4	0.5	1.1	1.2	1.3	1.4	1.5	Total
Number	150	520	130	10	30	260	280	70	20	1,470
Percent	10.2	35.4	8.8	0.7	2.0	17.7	19.0	4.8	1.4	100
1975										
Age	0.2	0.3	0.4	0.5	1.1	1.2	1.3	1.4	1.5	Total
Number	171	596	143	9	37	320	301	93	17	1,687
Percent	10.1	35.3	8.5	0.5	2.2	19.0	17.8	5.5	1.0	100

The increase in percent of 1.2 aged chinook in the fishery was probably due to increased reliance on hatchery produced fish that are slightly larger for that age than naturally produced fish. Also the reduction in size of catchable fish that occurred when the minimum size limit was changed from 26 inches fork length to 26 inches total length probably contributed to increased numbers of smaller 2-ocean chinook retained as legal size fish.

Sampling for wire tagged or fin clipped chinook and coho was conducted throughout the trolling season. An effort was made to sample all fish delivered. However, because of several logistical and administrative problems, only 33.4% of the chinook and 36.2% of the coho caught were sampled. Sampling was conducted in the fish processing plants during regular operations, Monday through Friday. When possible, fish were sampled at the grading table so that area of catch could be recorded by interview with the fishermen. When the numbers of fish delivered made sampling at the grading table impossible, sampling was done at the "heading" table.

All chinook and coho bearing fin marks were sorted from the catch. Those fish with other than adipose fin clips were measured (fork length) and a scale sample was taken. Fish with adipose-only fin clips were measured

(fork length) and the heads were taken for later removal of the wire tag. Recovered wire tags were shipped to Sitka with the appropriate data and decoded. All associated data, as well as decoded tags, were then forwarded to the various tagging agencies. Appendix Table A gives the tag recovery data for chinook and coho for 1975.

Fin mark recoveries for both chinook and coho for the 1975 season are listed in Table 4. A total of 112 multiple fin marks were recovered. Analysis of the scales of these finmarked fish is conducted by the Oregon Department of Fish and Wildlife Laboratory at Clackamas, Oregon. It will be reported at a later time in a comprehensive, coastwide mark recovery program.

Tag recoveries for coded wire tags by tagging agency for 1975 are presented in Table 5. Most chinook recoveries were tagged by the Washington Department of Fisheries (422) followed by the Oregon Department of Fish and Wildlife (138). Most of the recoveries of wire tags for coho were from Alaska tagged fish.

Total chinook tag recoveries were 591. Total coho tag recoveries were 122. Two hundred and ninety-four (69.6%) of the recoveries of chinook tagged by WDF were liberated from two coastal hatcheries; Nemah River and Soleduck River (Table 6). Alaskan recoveries of chinook from ODFW came from the Trask River Hatchery (Big Creek Hatchery) on the Oregon coast.

Exploitation Rates and Fishery Contribution Estimates

Coded wire tag recoveries from the 1975 port sampling provided an indication of relative contribution of chinook from various coastal hatcheries to the Alaskan commercial troll fishery (Appendix B). Total estimated agency contributions to the Alaska troll fishery are given in Table 7.

Estimated contribution accounted for 2.2% of the Alaska power troll catch of 259,136. Exploitation rates for different groups varied from 0.0001 to 0.7%. These estimated exploitation rates are for 1 year only and not for the total life history for a particular brood stock. A more definitive examination of exploitation rates will be made as stocks of chinooks pass through the fishery in successive years.

The estimated contributions given in Appendix B do not take into account natural or fishing mortality prior to recruitment into the Alaskan troll fishery.

Management decisions for regulating the commercial troll fishery should be made with these varying exploitation rates in mind. Catch limits

Table 4. 1975 Recoveries of Multiple Fin Marked Chinook and Coho.

MARK	NUMBER OF RECOVERIES
D-LV	30
D-RV	12
D-LP	5
D-RP	1
D-RM	1
AN-AD	1
AN-RP	1
LV-RV	10
LV-AD	1
LV-LP	1
LV-AD-RV	28
D-LV-RV	1
RV-RM	1
RV-AD	6
LP-RM	1
LP-AD	1
RP-AD	1
LM-AD	5
RM-AD	5
TOTAL	112

Table 5. Coded Wire Tag Recovery Summary by Agency-1975

CHINOOK

AGENCY	NUMBER OF RECOVERIES
Washington Department of Fisheries	422
Oregon Department of Fish and Game	138
Bureau of Sport Fisheries and Wildlife	3
National Marine Fisheries-Alaska	1
Environment Canada	25
Unknown	2
TOTAL CHINOOK RECOVERIES	591

COHO

AGENCY	NUMBER OF RECOVERIES
National Marine Fisheries-Alaska	109
Alaska Department of Fish and Game	11
Environment Canada	2
TOTAL COHO RECOVERIES	122

Table 6. Sampling Summary by Release Location-1975.

CHINOOK

Washington Department of Fisheries

HATCHERY	NUMBER OF RECOVERIES
Soleduck	179
Nemah	115
Issaquah	5
Toutle River	8
Kalama	49
Willapa	1
Skagit	1
Cowlitz	31
Green River	14
Hood Canal	7
Simpson	5
Dungeness	4
Skykomish	1

Oregon Department of Fish & Wildlife

Trask (Big Creek)	138

Bureau of Sport Fish and Wildlife

Leavenworth	2
Spring Creek	1

National Marine Fisheries Service

Little Port Walter	1

Canadian

Robertson Creek	15
Puntledge	2
Big Qualicum	8

Prototype-Washington Department of Fisheries

3/2 Hood Canal	1
3/3 Kalama	1

Others

15-12-13 (unknown)	1
Yel-?-Red	1

Table 6. Sampling Summary by Release Location-1975 (cont)

COHO

National Marine Fishery Service

HATCHERY	NUMBER OF RECOVERIES
Little Port Walter	109

Alaska Department of Fish and Game

Starrigavan Pens	11

Canadian Fisheries Service

Robertson Creek	1
Unknown	1

placed on the commercial troll fishery should also take into account the distribution of these hatchery stocks by time. We have indications that some hatchery stocks are available to the Alaska troll fishery for 1 or 2 months, while others are available for the entire season. The more important contributing stocks (Soleduck, Nemah, Trask) are available for 2 or more seasons, while some of the small experimental groups released from the Columbia River hatcheries are available for only 1 season. It is estimated that 8 years of tag recovery (two 4 year life cycles) will be needed before details of fishery and exploitation rates can be known.

Table 7. Agency Contribution to Alaska Troll Fishery, 1975.

Agency	Est. Contribution (No. of Fish)
Washington	4,288
Canada	820
Oregon	634
Federal (Various)	45
TOTAL	5,787

Coho Tag Recoveries

In 1975 the port sampling program recovered 122 coded wire tagged coho from the commercial troll fishery. About 90% (109) of the recoveries were tagged at the station at Little Port Walter. Almost 60% (65) of the Little Port Walter recoveries were made during the regular commercial troll fishery in District 113. A special fishery opening at Little Port Walter was sampled and those recoveries have been reported by NMFS.

Other districts in which Little Port Walter coho were recovered are District 157, 109, 110 and 103.

The port sampling program also recovered 11 coded wire tagged coho that were tagged and released by ADF&G at Starrigavan Bay near Sitka. Eight of these tags were recovered in District 113. Other recoveries were in Districts 103, 106 and 110. Two of the Starrigavan Bay releases were recovered in Canada; one in Unit 21 (west coast of Vancouver Island), and one in the Georgia Strait sport fishery.

Troll Fishery Catch Evaluation

Another purpose of the port sampling program was to provide the Department with timely catch statistics. As the season progressed, it became apparent that coho troll landings were far below expected catches. Port samplers provided Department managers with daily landings from the four ports in which sampling was being conducted. This information, when compared to historic catch levels indicated that on July 15, 1975, cumulative catches were 65% below normal in the northern districts (113, 114, 116) and 55% below normal in the southern districts (101, 102, 103, 104). The troll fishery was closed to the taking of cohos on August 15, 1975. District 14, Sections B & C; and 13C; District 1, Sections 1A, 1B, and 1C; Districts 7, 8, 10, 11, 15, 12, and 16 were closed to all trolling to prevent indicental take of coho.

The primary purpose of the troll fishery closure was to provide escapement in a year of weak runs of coho and to allow the gillnet and purse seine fisheries in traditional fishing areas to harvest significant runs of chum salmon.

There were 345,678 coho harvested by purse seines, drift gillnets and power troll gear in 1975 (Table 8). Troll gear harvested 50.1%, purse seine gear harvested 20.3% and drift gillnets harvested 29.6%. The 1975 troll catch was 20.4% of the 1974 catch of 846,422 coho.

HIGH SEAS GILLNET MARKS

Reports by commercial troll fishermen in recent years have indicated large numbers of chinook and coho bearing marks or abrasions made by gillnets. ADF&G observers have been recording the incidence of these marks since 1973. Table 9 is a summary of those 3 years' sampling.

Positive identification of external abrasions as gillnets scars is the most variable factor in determining the incidence of these marks in the fishery. Identification requires that a judgment be made by the sampler as to the type of mark, type of gear, and the age of the scar. We have found that, in general, gillnets of the type used on the high seas by foreign vessels leave cuts or very distinct marks on or near the head of the salmon. The marks also usually completely encircle the body of the fish. All other marks, abrasions and wounds are noted as predator scars and not counted as gillnet marks. Our observers were also instructed to determine if the mark is old or new. Old marks were seen as healed cuts, while new marks were open cuts when the fish was landed.

Table 8. Coho Salmon Catch, All Gear by District-1975

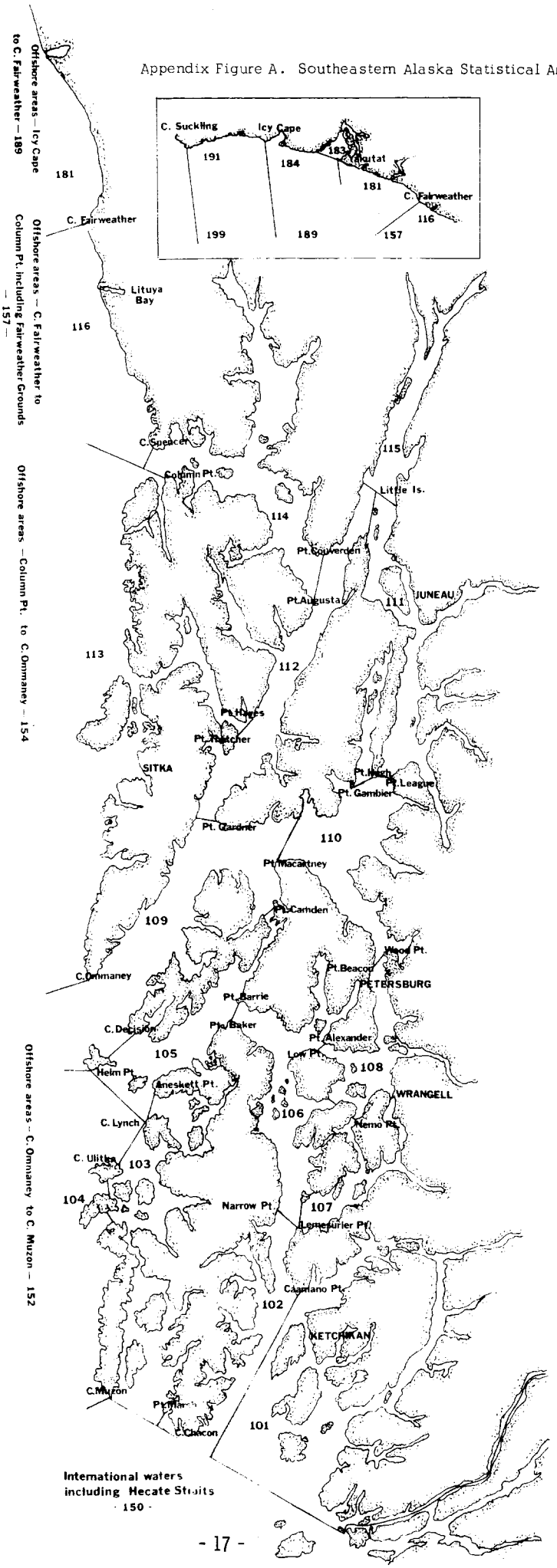
DISTRICT	POWER TROLL	DRIFT GILLNET	PURSE SEINE
1	52,222	12,631	4,175
2	9,305		34,046
3	23,129		10,880
4	29,283		7,797
5	8,502		29
6	4,944	30,962	8,930
7	577		2,159
8			Closed
9	7,007		817
10	2,004		
11	2,548	1,195	
12	43		
13	12,677		819
14	10,932		549
15		57,543	
16	2,583		
152	16		
157	7,134		
181	7		
183	140		
191	113		
TOTAL	173,146	102,331	70,201

Table 9. Gillnet Marked Troll Salmon

Year	Number Sampled	Chinook Marked	Coho Marked	Total
1973	16,183	78	47	125
1974	117,498	146	170	316
1975	149,386	163	201	364

Various commercial fishermen brought in samples of monofilament gillnet that was recovered floating or from coastal beaches during 1975. These net samples were forwarded to the NMFS for identification and analysis. Four net samples were examined. One sample found near Cape Spencer was determined to be of Korean origin. Two samples taken near Whale Bay on S. Baranof were used by Japanese fishermen. A sample recovered in Sitka Sound was used by Korean fishermen, but was made in Japan. All nets recovered were 113 mm mesh size designed primarily for 2 year old salmon. A more extensive net recovery program is planned for next season.

Appendix Figure A. Southeastern Alaska Statistical Areas.



Appendix Table A. Release-Recovery Summary and Sample Size by Day and Port for Chinook and Coho - 1975.

SITKA

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 2- 4	Nemah (71)	113	5/29	27"	170
15- 2- 4	Nemah (71)	113	6/02	28"	702
15- 2-14	Soleduck (71)	157	6/09	28"	225
15- 3- 2	Soleduck (71)	157	6/09	27"	225
15- 3- 1	Soleduck (71)	113	6/10	33"	495
15- 2- 4	Nemah (71)	113	6/10	31"	495
15- 2- 4	Nemah (71)	113	6/12	30"	723
15- 0- 9	Nemah (71)	113	6/16	27"	670
15- 2-14	Soleduck (71)	113	6/16	27"	670
15- 3- 3	Soleduck (71)	113	6/25	27"	392
15- 7- 4	Cowlitz (71)	113	6/20	27"	476
15- 2- 2	Nemah (71)	113	6/20	27"	476
15- 2- 2	Nemah (71)	113	6/23	29"	586
15- 2- 2	Nemah (71)	113	6/24	29"	155
15- 2- 4	Nemah (71)	113	6/25	28"	392
15- 2-14	Soleduck (71)	113	6/25	25"	392
15- 3- 0	Soleduck (71)	113	6/25	28"	392
15- 0- 9	Nemah (71)	113	6/27	34"	295
15- 2-14	Soleduck (71)	113	6/30	26"	656
15- 2- 2	Nemah (71)	113	6/30	29"	656
15- 7-13	Kalama (71)	113	6/30	31"	656
15- 0- 9	Nemah (71)	113	6/30	29"	656
15- 3- 2	Soleduck (71)	113	6/30	30"	656
15- 6- 8	Kalama (71)	113	7/02	29"	739
15- 2- 2	Nemah (71)	113	7/02	29"	739
15- 6- 5	Simpson (71)	113	7/07	29"	688
15- 2- 2	Nemah (71)	113	7/07	27"	688
15- 2-14	Soleduck (71)	113	7/07	29"	688
15- 0- 6	Hood Canal (71)	113	7/11	26"	276
15- 6- 8	Kalama (71)	113	7/14	28"	551
15- 6- 8	Kalama (71)	113	7/15	30"	478
15- 2- 4	Nemah (71)	113	7/15	27"	478
15- 2- 2	Nemah (71)	113	7/15	31"	478
15- 3- 2	Soleduck (71)	113	7/16	25"	329
15- 3- 2	Soleduck (71)	113	7/17	26"	484
15- 2- 2	Nemah (71)	113	7/17	28"	484
15- 2-14	Soleduck (71)	113	7/18	30"	842
15- 0- 9	Nemah (71)	113	7/18	29"	842
15- 7-12	Kalama (71)	113	7/18	28"	842
15- 2- 2	Nemah (71)	113	7/21	28"	308
15- 2- 4	Nemah (71)	113	7/23	33"	32
15- 5- 2	Soleduck (71)	113	7/25	25"	356
15- 3- 0	Soleduck (71)	113	7/25	29"	356
15- 3- 3	Soleduck (71)	113	7/25	28"	356
15- 3- 3	Soleduck (71)	113	7/25	28"	356
15- 7- 6	Cowlitz (71)	113	7/25	32"	356
15- 7-15	Dungeness (71)	113	8/18	27"	141

SITKA

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 5- 2	Soleduck (71)	113	8/15	31"	113
15- 2-14	Soleduck (71)	113	8/18	28"	141
15- 3- 3	Soleduck (71)	113	8/20	33"	284
15- 2- 2	Nemah (71)	113	8/20	30"	284
15- 2- 3	Green (71)	113	8/20	31"	284
15- 6- 8	Kalama (71)	113	8/20	30"	284
15- 5- 2	Soleduck (71)	113	8/20	29"	284
15- 0- 9	Nemah (71)	113	8/20	26"	284
15- 6-15	Cowlitz (71)	113	8/23	29"	251
15- 2- 4	Nemah (71)	113	8/25	26"	143
15- 2-14	Soleduck (71)	113	8/25	26"	143
15- 0- 7	Hood Canal (71)	113	8/25	28"	143
15- 3- 3	Soleduck (71)	113	8/26	30"	166

SITKA

Fish Commission of Oregon

Chinook

Pnk-Blu	B. Creek (71)	113	5/27	31"	527
Pnk-Red	B. Creek (70)	113	5/30	29"	120
Pnk-Red	B. Creek (70)	113	6/02	33"	702
Pnk-Blu	B. Creek (70)	113	6/04	31"	279
Pnk-Blu	B. Creek (71)	113	6/06	28"	225
Pnk-Blu	B. Creek (71)	157	6/06	29"	225
Pnk-Yel	Trask (70)	113	6/10	35"	495
Pnk-Red	B. Creek (70)	113	6/13	32"	290
Pnk-Blu	B. Creek (71)	103	6/18	29"	434
Pnk-Blu	B. Creek (71)	113	6/20	26"	476
Pnk-Blu	B. Creek (71)	157	6/23	26"	586
Pnk-Blu	B. Creek (71)	157	6/23	25"	586
Pnk-Blu	B. Creek (71)	157	6/23	30"	586
Pnk-Blu	B. Creek (71)	113	6/24	28"	155
Pnk-Yel	Trask (70)	113	6/25	36"	392
Pnk-Blu	B. Creek (71)	113	6/27	30"	295
Pnk-Red	B. Creek (70)	113	6/30	37"	656
Pnk-Red	B. Creek (70)	113	6/30	35"	656
Pnk-Red	B. Creek (70)	113	7/07	34"	688
Pnk-Blu	B. Creek (71)	113	7/11	29"	276
Pnk-Yel	Trask (70)	113	7/14	34"	551
Pnk-Red	B. Creek (70)	113	7/14	35"	551
Pnk-Blu	B. Creek (71)	113	7/14	30"	551
Pnk-Blu	B. Creek (71)	113	7/15	33"	478
Pnk-Red	B. Creek (70)	113	7/15	38"	478
Pnk-Blu	B. Creek (71)	113	7/15	34"	478
Pnk=Yel	Trask (70)	113	7/15	38"	478

SITKA

Fish Commission of Oregon

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
Pnk-Blu	B. Creek (71)	113	7/15	31"	478
Pnk-Red	B. Creek (70)	113	7/15	32"	478
Pnk-Blu	B. Creek (71)	113	7/25	29"	356
Pnk-Yel	Trask (70)	113	8/06	34"	279
Pnk-Yel	Trask (70)	113	8/16	39"	92

SITKA

Canadian Fisheries Service

Chinook

2- 5- 1	Robertson (72)	113	6/16	27"	670
2- 3- 2	Puntledge (73)	113	7/03	15"	739
2-11- 1	Robertson (72)	113	7/11	25"	276
Blu-Brn-Blu	B. Qualicum (70)	113	7/16	39"	329
Blu-Brn-Grn	B. Qualicum (71)	113	7/24	28"	81
2- 5- 1	Robertson (72)	113	8/04	24"	414
2- 5- 1	Robertson (72)	113	7/25	24"	356
Blu-Lt.Grn-Yel	B. Qualicum (72)	113	8/06	27"	279

PETERSBURG

Washington Department of Fisheries

Chinook

15- 8- 2	Toutle (71)	110	6/09	27"	319
15- 7- 1	Cowlitz (71)	152	6/31	29"	64
15- 7- 4	Cowlitz (71)	152	7/02	28"	216
15- 1- 1	Skagit (71)	152	7/09	31"	216
15- 3- 2	Soleduck (71)	152	7/09	26"	216
15- 7-15	Dungeness (71)	110	7/14	26"	80
15- 5- 2	Soleduck (71)	110	7/14	27"	80
15- 5- 2	Soleduck (71)	109	7/16	28"	612
15-11- 1	Nemah (72)	109	7/16	27"	612
15- 2-14	Soleduck (71)	109	7/16	28"	612
15- 7-13	Kalama (71)	110	7/17	31"	90
15- 7- 5	Cowlitz (71)	110	7/25	33"	58
15- 7-15	Dungeness (71)	110	8/04	27"	873
15- 2-14	Soleduck (71)	110	8/04	26"	223
15- 3- 1	Soleduck	110	8/14	29"	223
15-11- 2	Issaquah (72)	152	8/15	32"	35

PETERSBURG

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 5-14	Cowlitz (71)	110	8/15	29"	35
15- 2-14	Soleduck (71)	110	8/16	28"	731
15- 3- 0	Soleduck (71)	152	8/16	27"	731
15- 2- 9	Issaquah (71)	110	8/17	28"	24
15- 3- 3	Soleduck (71)	109	8/18	28"	5
15- 2- 9	Issaquah (71)	110	8/29	31"	33
15- 3- 2	Soleduck (71)	115	9/11	28"	115
15- 0- 9	Nemah (71)	109	9/11	30"	115
15-12- 2	Green R. (71)	109	9/11	28"	115

PETERSBURG

Fish Commission of Oregon

Chinook

Pnk-Yel	Trask (70)	152	6/02	31"	633
Pnk-Red	B. Creek (70)	152	7/02	34"	216

PETERSBURG

Canadian Fisheries Service

Chinook

2- 5- 1	Robertson (72)	108	6/10	26"	319
2- 5- 1	Robertson (72)	152	7/21	26"	22
Blu-Brn-Blu	B. Qualicum (71)	110	7/28	31"	111
Blu-Lt.Grn-blu	B. Qualicum (72)	110	8/05	24"	338
Blu-Lt.Blu-Ox.Red	B. Qualicum (71)	109	9/02	34"	108

PETERSBURG

Bureau of Sport Fisheries and Wildlife

Chinook

5- 3- 1	Spring Cr. (72)	152	8/21	22"	22

GRAIG

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 6- 8	Kalama (71)	103	5/28	30"	1100
15- 3- 2	Soleduck (71)	103	5/28	25"	1100
15- 8- 6	Green (71)	103	5/28	27"	1100
15- 8- 4	Toutle (71)	103	5/27	33"	1475
15- 3- 2	Soleduck (71)	103	5/30	26"	1179
15- 3- 2	Soleduck (71)	103	5/30	28"	1179
15- 3- 3	Soleduck (71)	103	5/30	27"	1179
15- 2- 9	Issaquah (71)	103	5/30	33"	1179
15- 7- 2	Hood Canal (71)	103	6/02	27"	1456
15- 0- 9	Nemah (71)	103	6/02	28"	1456
3/2 Proto	Washington	103	6/02	29"	1456
15-11- 2	Issaquah (72)	103	6/02	26"	1456
15- 0- 9	Nemah (71)	103	6/03	30"	562
15- 3- 2	Soleduck (71)	103	5/30	29"	1179
15- 5- 2	Soleduck (71)	103	6/03	26"	562
15- 2- 4	Nemah (71)	103	6/04	26"	919
15- 2-14	Soleduck (71)	103	6/04	25"	919
15- 3- 8	Soleduck (71)	103	6/04	32"	919
15- 0- 9	Nemah (71)	103	6/04	25"	919
15- 2- 4	Nemah (71)	103	6/05	26"	262
15- 3- 2	Soleduck (71)	103	6/06	26"	256
15- 6- 8	Kalama (71)	103	6/06	25"	256
15- 2- 3	Green (71)	103	6/10	29"	688
15- 2- 2	Nemah (71)	103	6/10	28"	688
15- 3- 2	Soleduck (71)	103	6/10	25"	688
15- 2- 2	Nemah (71)	103	6/10	28"	688
15- 2- 2	Nemah (71)	103	6/10	30"	688
15- 3- 2	Soleduck (71)	103	6/10	28"	688
15- 3- 2	Soleduck (71)	103	6/10	25"	688
15- 7- 4	Cowlitz (71)	103	6/12	27"	749
15- 3- 0	Soleduck (71)	103	6/12	24"	749
15- 3- 0	Soleduck (71)	103	6/12	28"	749
15- 6- 8	Kalama (71)	103	6/12	28"	749
15- 2- 3	Green (71)	103	6/13	27"	715
15- 2- 4	Nemah (71)	103	6/13	29"	715
15- 6- 5	Simpson (71)	103	6/16	29"	1418
15- 2- 4	Nemah (71)	103	6/16	24"	1418
15- 7- 5	Cowlitz (71)	103	6/16	30"	1418
15- 5- 2	Soleduck (71)	103	6/16	33"	1418
15- 2- 2	Nemah (71)	103	6/17	27"	678
15- 6- 8	Kalama (71)	103	6/17	26"	678
15- 3- 2	Soleduck (71)	103	6/17	26"	678
15- 5- 2	Soleduck (71)	103	6/17	26"	678
15- 6- 8	Kalama (71)	103	6/17	27"	678
15- 2- 2	Nemah (71)	103	6/17	25"	678

CRAIG

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 5- 6	Kalama (71)	103	6/17	29"	678
15- 3- 1	Soleduck (71)	103	6/25	28"	354
15- 2-13	Soleduck (71)	103	6/26	26"	84
15- 6-15	Cowlitz (71)	103	6/30	29"	530
15- 6- 8	Kalama (71)	103	6/30	24"	530
15- 3- 1	Soleduck (71)	103	6/30	26"	530
15- 5- 6	Kalama (71)	103	7/02	35"	412
15- 2- 3	Green (71)	103	7/02	29"	412
15- 7- 6	Cowlitz(71)	103	7/19	32"	437
15- 0- 9	Nemah (71)	103	7/19	30"	437
15- 7- 2	Hood Canal (71)	103	7/21	29"	668
15- 7- 4	Cowlitz (71)	103	7/21	31"	668
15- 7- 6	Cowlitz (71)	103	7/21	34"	668
15- 6- 7	Kalama (71)	103	7/21	31"	668
15- 2- 2	Nemah (71)	103	7/21	30"	668
15- 3- 3	Soleduck (71)	103	7/21	30"	668
15- 2- 3	Green (71)	103	7/23	29"	330
15- 6- 8	Kalama (71)	103	7/23	31"	330
15- 5- 6	Kalama (71)	103	7/23	33"	330
15- 0- 9	Nemah (71)	103	7/24	31"	109
15- 2- 3	Green (71)	103	7/31	29"	198
15- 3- 3	Soleduck (71)	103	8/01	29"	110
15- 6- 5	Simpson (71)	103	8/02	27"	263
15- 6- 8	Kalama (71)	103	8/02	28"	263
15- 3- 1	Soleduck (71)	103	8/02	27"	263
15- 7-15	Dungeness (71)	103	8/04	23"	465
15- 7- 5	Cowlitz (71)	103	8/05	27"	477
15- 6- 8	Kalama (71)	103	8/06	28"	133
15- 2-14	Soleduck (71)	103	8/07	26"	285
15- 5- 2	Soleduck (71)	103	8/07	33"	285
15- 2-14	Soleduck (71)	103	8/09	26"	197
15- 0- 9	Nemah (71)	103	8/16	32"	143
3/3 Proto	Washington	103	8/16	32"	437

CRAIG

Fish Commission of Oregon

Chinook

Pnk-Yel	Trask (70)	103	5/27	32"	1475
Pnk-Blu	B. Creek (71)	103	5/27	31"	1475
Pnk-Blu	B. Creek (71)	103	6/02	29"	1456
Pnk-Blu	B. Creek (71)	103	6/02	28"	1456

PELICAN

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 2-14	Soleduck (71)	157	6/09	26"	905
15- 3- 3	Soleduck (71)	157	6/09	31"	905
15- 2- 2	Nemah (71)	113	6/09	31"	905
15- 3- 3	Soleduck (71)	113	6/09	27"	905
15- 2-14	Soleduck (71)	113	6/09	27"	905
15- 0- 9	Nemah (71)	113	6/11	26"	217
15- 3- 3	Soleduck (71)	157	6/11	26"	217
15- 2- 2	Nemah (71)	113	6/13	30"	487
15- 3- 3	Soleduck (71)	113	6/13	29"	487
15- 2-14	Soleduck (71)	113	6/13	32"	487
15- 6- 8	Kalama (71)	157	6/13	27"	487
15- 3- 3	Soleduck (71)	157	6/16	26"	744
15- 0- 9	Nemah (71)	157	6/16	26"	744
15- 3- 2	Soleduck (71)	113	6/16	29"	744
15- 3- 3	Soleduck (71)	157	6/16	26"	744
15- 8- 2	Toutle (71)	157	6/16	26"	744
15- 3- 2	Soleduck (71)	157	6/16	27"	744
15- 2- 4	Nemah (71)	157	6/16	28"	744
15- 3- 2	Soleduck (71)	157	6/17	27"	954
15- 3- 3	Soleduck (71)	157	6/16	27"	954
15- 2- 4	Nemah (71)	157	6/17	29"	954
15- 2-14	Soleduck (71)	157	6/17	28"	954
15- 3- 3	Soleduck (71)	157	6/18	27"	276
15- 6- 8	Kalama (71)	113	6/19	30"	334
15- 2- 4	Nemah (71)	113	6/19	28"	334
15- 0- 9	Nemah (71)	113	6/19	26"	334
15- 3- 2	Soleduck (71)	157	6/19	29"	597
15- 0- 9	Nemah (71)	157	6/19	26"	597
15- 3- 2	Soleduck (71)	113	6/20	26"	461
15- 3- 3	Soleduck (71)	113	6/20	26"	461
15- 2- 4	Nemah (71)	113	6/20	28"	461
15- 0- 9	Nemah (71)	157	6/20	28"	165
15- 6- 8	Kalama (71)	157	6/20	30"	165
15- 6- 8	Kalama (71)	157	6/23	28"	2481
15- 6-15	Cowlitz (71)	157	6/23	28"	2481
15- 2- 3	Green (71)	157	6/23	28"	2481
15- 3- 3	Soleduck (71)	157	6/23	28"	2481
15- 3- 3	Soleduck (71)	157	6/23	28"	2481
15- 2- 4	Nemah (71)	157	6/23	33"	2481
15- 3- 0	Soleduck (71)	157	6/23	29"	2481
15- 2- 2	Nemah (71)	157	6/23	28"	2481
15- 3- 2	Soleduck (71)	157	6/23	27"	2481
15- 2- 2	Nemah (71)	157	6/23	30"	2481
15- 5-14	Cowlitz (71)	157	6/23	29"	2481
15- 2-14	Soleduck (71)	157	6/23	26"	2481

CRAIG

Fish Commission of Oregon

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
Pnk-Blu	B. Creek (71)	103	6/02	27"	1456
Pnk-Yel	Trask (70)	103	6/04	33"	919
Pnk-Blu	B. Creek (71)	103	6/09	31"	728
Pnk-Blu	B. Creek (71)	103	6/13	28"	715
Pnk-Red	B. Creek (70)	103	6/16	30"	1418
Pnk-Red	B. Creek (70)	103	6/17	34"	678
Pnk-Red	B. Creek (70)	103	6/27	39"	331
Pnk-Red	B. Creek (70)	103	7/01	35"	239
Pnk-Blu	B. Creek (71)	103	7/21	28"	668
Pnk-Red	B. Creek (70)	103	7/24	38"	109
Pnk-Yel	Trask (70)	103	8/02	35"	263

CRAIG

Canadian Fisheries Service

Chinook

2-11- 1	Robertson Cr(72)	103	6/17	25"	678
2- 5- 1	Robertson Cr(72)	103	6/30	27"	530
2-11- 1	Robertson Cr(72)	103	6/25	24"	354
2- 4- 1	Puntledge (72)	103	8/01	26"	263
2- 5- 1	Robertson Cr(72)	103	8/04	28"	465
2- 5- 1	Robertson Cr(72)	103	8/06	26"	133
2- 5- 1	Robertson Cr(72)	103	8/11	25"	25
Yel-?-Red	?	103	8/14	32"	47

CRAIG

National Marine Fisheries Service

Chinook

3- 1- 2	Little Pt.Walter	103		28"	256

PELICAN

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 2- 2	Nemah (71)	157	6/30	27"	2068
15- 8- 6	Green (71)	157	6/30	27"	2068
15- 2- 4	Nemah (71)	157	6/30	32"	2068
15- 3- 3	Soleduck (71)	157	7/01	28"	2357
15- 3- 0	Soleduck (71)	157	7/01	27"	2357
15- 2-14	Soleduck (71)	157	7/01	28"	2357
15- 2-14	Soleduck (71)	157	7/01	27"	2357
15- 2- 3	Green (71)	157	7/01	28"	2357
15- 2- 3	Green (71)	157	7/01	28"	2357
15- 7-13	Kalama (71)	157	7/01	30"	2357
15- 6-13	Cowlitz (71)	157	7/01	28"	2357
15- 5- 2	Soleduck (71)	157	7/01	27"	2357
15- 3- 2	Soleduck (71)	157	7/01	26"	2357
15- 2-14	Soleduck (71)	157	7/01	26"	2357
15- 2-14	Soleduck (71)	157	7/01	29"	2357
15- 3- 2	Soleduck (71)	157	7/01	26"	2357
15- 6- 8	Kalama (71)	157	7/01	28"	2357
15- 3- 2	Soleduck (71)	157	7/01	26"	2357
15- 2- 4	Nemah (71)	157	7/01	34"	2357
15- 3- 3	Soleduck (71)	157	7/01	29"	2357
15- 2- 4	Nemah (71)	157	7/01	28"	2357
15- 2-14	Soleduck (71)	113	7/01	28"	433
15- 0- 9	Nemah (71)	157	7/01	26"	2357
15- 6- 8	Kalama (71)	157	7/01	28"	2357
15- 6- 8	Kalama (71)	157	7/01	28"	2357
15- 3- 2	Soleduck (71)	157	7/01	29"	2357
15- 3- 2	Soleduck (71)	157	7/01	29"	2357
15- 3- 3	Soleduck (71)	157	7/01	31"	1295
15- 2- 3	Green (71)	157	7/01	30"	1295
15- 3- 3	Soleduck (71)	157	7/01	27"	1295
15- 3- 3	Soleduck (71)	157	7/01	30"	1295
15- 2- 4	Nemah (71)	157	7/01	27"	1295
15- 3- 2	Soleduck (71)	157	7/01	27"	1295
15- 3- 2	Soleduck (71)	157	7/01	27"	1295
15- 2- 4	Nemah (71)	157	7/01	26"	1295
15- 3- 2	Soleduck (71)	157	7/01	27"	1295
15- 3- 2	Soleduck (71)	157	7/01	27"	1295
15- 2- 4	Nemah (71)	157	7/01	26"	1295
15- 3- 2	Soleduck (71)	157	7/01	27"	1295
15- 2- 2	Nemah (71)	157	7/01	26"	1295
15- 3- 3	Soleduck (71)	157	7/01	26"	1295
15- 5- 2	Soleduck (71)	157	7/01	29"	1295
15- 2- 2	Nemah (71)	157	7/03	28"	301
15- 2- 2	Nemah (71)	157	7/03	27"	301
15- 5- 2	Soleduck (71)	157	7/03	27"	301

PELICAN

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 6- 9	Cowlitz (71)	157	6/23	27"	2481
15- 2- 4	Nemah (71)	157	6/23	29"	2481
15- 2- 4	Nemah (71)	157	6/23	29"	2481
15- 2-14	Soleduck (71)	157	6/23	26"	2481
15- 3- 2	Soleduck (71)	157	6/23	28"	2481
15- 6-15	Cowlitz (71)	157	6/23	28"	2481
15- 2-14	Soleduck (71)	157	6/23	27"	2481
15- 3- 2	Soleduck (71)	157	6/23	27"	2481
15- 2- 4	Nemah (71)	157	6/23	26"	2481
15- 1-15	Nemah (71)	157	6/23	27"	2481
15- 0- 9	Nemah (71)	157	6/23	26"	2481
15- 3- 3	Soleduck (71)	157	6/23	26"	2481
15- 3- 0	Soleduck (71)	157	6/23	26"	2481
15- 7- 4	Cowlitz (71)	157	6/23	28"	2481
15- 3- 2	Soleduck (71)	157	6/23	26"	2481
15- 6- 8	Kalama (71)	157	6/23	26"	2481
15- 2-14	Soleduck (71)	157	6/23	30"	2481
15- 6- 8	Kalama (71)	114	6/23	28"	2481
15- 0- 9	Nemah (71)	113	6/23	27"	2481
15- 0- 9	Nemah (71)	113	6/23	27"	2481
15- 3- 2	Soleduck (71)	113	6/23	29"	2481
15- 2-14	Soleduck (71)	157	6/24	26"	1083
15- 6- 8	Kalama (71)	157	6/24	26"	1083
15- 2- 2	Nemah (71)	157	6/24	30"	1083
15- 3- 2	Soleduck (71)	157	6/25	27"	423
15- 2- 2	Nemah (71)	157	6/25	27"	423
15- 0- 9	Nemah (71)	157	6/25	27"	141
15- 3- 2	Soleduck (71)	157	6/26	27"	141
15- 3- 2	Soleduck (71)	157	6/27	30"	1119
15- 6- 8	Kalama (71)	157	6/27	29"	1119
15- 3- 2	Soleduck (71)	157	6/27	28"	1119
15- 2-14	Soleduck (71)	157	6/27	32"	1119
15- 2- 4	Nemah (71)	157	6/27	28"	1119
15- 2- 4	Nemah (71)	157	6/27	31"	1119
15- 2- 4	Nemah (71)	157	6/27	28"	1119
15- 2- 4	Nemah (71)	157	6/27	26"	1119
15- 3- 3	Soleduck (71)	157	6/30	27"	2068
15- 3- 2	Soleduck (71)	157	6/30	26"	2068
15- 3- 2	Soleduck (71)	157	6/30	26"	2068
15- 2- 2	Nemah (71)	157	6/30	29"	2068
15- 3- 3	Soleduck (71)	157	6/30	29"	2068
15- 3- 3	Soleduck (71)	157	6/30	28"	2068
15- 2- 2	Nemah (71)	157	6/30	32"	2068
15- 0- 9	Nemah (71)	157	6/30	30"	2068

PELICAN

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 6-15	Cowlitz (71)	157	7/03	29"	301
15- 3- 3	Soleduck (71)	157	7/03	28"	301
15- 3- 2	Soleduck (71)	157	7/03	27"	552
15- 3- 3	Soleduck (71)	157	7/03	27"	543
15- 7- 5	Cowlitz (71)	157	7/03	28"	543
15- 5- 2	Soleduck (71)	157	7/03	26"	543
15- 6- 8	Kalama (71)	157	7/03	28"	543
15- 3- 3	Soleduck (71)	157	7/03	29"	543
15- 3- 3	Soleduck (71)	157	7/03	27"	543
15- 3- 2	Soleduck (71)	157	7/03	26"	543
15- 2- 4	Nemah (71)	113	7/03	29"	103
15- 3- 2	Soleduck (71)	113	7/10	27"	448
15- 7- 5	Cowlitz (71)	113	7/10	29"	448
15- 6- 8	Kalama (71)	113	7/11	30"	411
15- 2-14	Soleduck (71)	113	7/11	27"	411
15- 6- 8	Kalama (71)	113	7/11	27"	411
15- 6- 5	Simpson (71)	113	7/11	29"	411
15- 2- 4	Nemah (71)	113	7/11	30"	411
15- 2-14	Soleduck (71)	113	7/14	26"	151
15- 6-15	Cowlitz (71)	113	7/14	28"	151
15- 3- 3	Soleduck (71)	116	7/14	27"	55
15- 2-14	Soleduck (71)	116	7/14	28"	55
15- 2- 4	Nemah (71)	157	7/14	32"	764
15- 2-14	Soleduck (71)	157	7/14	26"	764
15- 2-14	Soleduck (71)	157	7/14	31"	764
15- 0- 9	Nemah (71)	113	7/14	26"	764
15- 6- 8	Kalama (71)	113	7/14	28"	764
15- 0- 9	Nemah (71)	113	7/14	28"	764
15- 3- 3	Soleduck (71)	113	7/14	28"	764
15- 0- 9	Nemah (71)	157	7/15	27"	935
15- 3- 2	Soleduck (71)	157	7/15	29"	935
15- 6- 8	Kalama (71)	157	7/15	30"	935
15- 2- 2	Nemah (71)	157	7/15	29"	935
15- 2- 4	Nemah (71)	157	7/15	26"	935
15- 0- 7	Hood Canal (71)	157	7/15	28"	935
15- 7- 4	Cowlitz (71)	157	7/15	29"	935
15- 2- 2	Nemah (71)	157	7/15	28"	935
15- 3- 3	Soleduck (71)	157	7/15	29"	935
15- 0- 9	Nemah (71)	113	7/15	27"	158
15- 3- 2	Soleduck (71)	157	7/16	27"	449
15- 2-14	Soleduck (71)	157	7/16	26"	449
15- 3- 2	Soleduck (71)	157	7/16	28"	449
15- 7-12	Kalama (71)	157	7/16	30"	449
15- 0- 9	Nemah (71)	157	7/16	26"	449
15- 2- 2	Nemah (71)	157	7/17	29"	199
15- 0- 9	Nemah (71)	113	7/18	29"	233

PELICAN

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 2- 4	Nemah (71)	157	7/21	28"	762
15- 3- 2	Soleduck (71)	157	7/21	26"	762
15- 5- 2	Soleduck (71)	157	7/21	29"	762
15-10-11	Willapa (72)	157	7/23	26"	398
15- 2- 4	Nemah (71)	157	7/23	27"	398
15- 3- 3	Soleduck (71)	157	7/23	29"	398
15- 2- 4	Nemah (71)	157	7/23	32"	398
15- 5- 2	Soleduck (71)	113	7/24	28"	167
15- 5- 2	Soleduck (71)	113	7/25	28"	87
15- 6- 8	Kalama (71)	157	8/04	30"	413
15- 3- 2	Soleduck (71)	157	8/04	26"	413
15-13- 7	Cowlitz (71)	157	8/04	28"	413
15- 2-14	Soleduck (71)	113	8/04	32"	211
15- 2-14	Soleduck (71)	113	8/04	29"	211
15- 3- 2	Soleduck (71)	113	8/04	28"	211
15- 2- 4	Nemah (71)	157	8/05	32"	464
15- 3- 3	Soleduck (71)	157	8/06	31"	613
15- 6- 8	Kalama (71)	157	8/06	30"	613
15- 6- 8	Kalama (71)	157	8/06	28"	613
15- 0- 9	Nemah (71)	157	8/07	30"	407
15- 7- 3	Cowlitz (71)	157	8/07	29"	407
15- 2- 4	Nemah (71)	116	8/08	29"	131
15- 3- 2	Soleduck (71)	157	8/08	26"	569
15- 2- 2	Nemah (71)	157	8/08	29"	569
15- 2-14	Soleduck (71)	157	8/08	28"	569
15- 2- 2	Nemah (71)	157	8/08	32"	569
15- 0- 9	Nemah (71)	157	8/08	31"	569
15- 3- 2	Soleduck (71)	157	8/08	26"	569
15- 3- 3	Soleduck (71)	157	8/13	34"	1312
15- 2-14	Soleduck (71)	157	8/13	27"	1312
15- 7-13	Kalama (71)	157	8/13	31"	1312
15- 6- 8	Kalama (71)	157	8/13	30"	1312
15- 6-13	Cowlitz (71)	157	8/13	27"	1312
15- 6- 8	Kalama (71)	157	8/13	27"	1312
15-12-13	Unknown	157	8/14	27"	216
15- 6- 8	Kalama (71)	157	8/14	30"	216
15- 3- 3	Soleduck (71)	113	8/15	29"	264
15- 2- 2	Nemah (71)	116	8/15	31"	95
15- 6- 8	Kalama (71)	157	8/15	27"	709
15- 7- 2	Hood Canal (71)	157	8/15	30"	709
15-10-14	Nemah (72)	157	8/15	26"	709
15- 3- 2	Soleduck (71)	157	8/15	26"	709
15- 2-14	Soleduck (71)	157	8/15	27"	709
15- 8- 4	Toutle (71)	113	8/20	30"	66
15- 8- 4	Toutle (71)	157	8/20	30"	466

PELICAN

Washington Department of Fisheries

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
15- 6-13	Cowlitz (71)	157	8/20	29"	466
15-11- 1	Nemah (72)	113	8/22	26"	856
15- 6- 8	Kalama (71)	113	8/22	32"	856
15- 3- 2	Soleduck (71)	113	8/22	29"	856
15-10-14	Nemah (72)	115	8/22	26"	856
15- 8- 4	Toutle (71)	113	8/22	27"	856
15- 2- 4	Nemah (71)	113	8/25	33"	261
15- 8- 2	Toutle (71)	113	8/25	28"	261
15- 0- 9	Nemah (71)	157	8/25	31"	114
15- 3- 2	Soleduck (71)	113	8/26	28"	379
15- 6-15	Cowlitz (71)	113	8/26	28"	379
15- 7-14	Toutle (71)	113	8/26	32"	379
15- 5- 2	Soleduck (71)	113	8/26	32"	379
15- 3- 0	Soleduck (71)	113	8/28	30"	3
15-10-14	Nemah (72)	113	8/29	26"	178
15- 2- 3	Green (71)	157	8/30	31"	369
15- 6- 8	Kalama (71)	157	8/30	28"	369
15- 3- 3	Soleduck (71)	157	8/30	31"	369
15- 5- 2	Soleduck (71)	113	9/02	28"	422
15- 3- 2	Soleduck (71)	113	9/02	29"	422
15- 3- 0	Soleduck (71)	113	9/02	31"	422
15- 3- 2	Soleduck (71)	113	9/02	30"	422
15- 2- 4	Nemah (71)	113	9/02	29"	422
15- 2- 3	Green (71)	113	9/03	30"	411
15- 0- 9	Nemah (71)	113	9/03	27"	411
15- 3- 2	Soleduck (71)	113	9/04	28"	388
15- 7-12	Kalama (72)	113	9/04	26"	388
15- 3- 3	Soleduck (71)	113	9/04	28"	388
15- 2- 4	Nemah (71)	113	9/04	27"	388
15- 5- 2	Soleduck (71)	113	9/06	27"	234
15- 3- 2	Soleduck (71)	113	9/06	27"	234
15- 3- 2	Soleduck (71)	113	9/08	28"	469
15- 8- 3	Skykomish (71)	113	9/08	30"	469
15- 0- 9	Nemah (71)	113	9/08	29"	469
15- 1- 3	Hood Canal (71)	113	9/08	31"	469
15- 7- 3	Cowlitz (71)	113	9/08	33"	469
15- 3- 2	Soleduck (71)	113	9/10	31"	78

PELICAN

Canadian Fisheries Service

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
Blu-Grn-OxYel	B. Qualicum (72)	113	8/15	29"	264
2- 8- 1	Robertson Cr(72)	157	8/15	27"	709
2- 5- 1	Robertson Cr(72)	157	8/15	26"	709
8- 8- 1	Robertson Cr(72)	157	6/23	28"	2481
Blu-Grn-OxYel	B. Qualicum (71)	157	6/23	28"	2481

PELICAN

Bureau of Sport Fisheries and Wildlife

Chinook

Yel-Pur-Red	Leavenworth(70)	157	6/17	34"	954
Yel-Pur-Red	Leavenworth(70)	157	7/02	34"	1295

PELICAN

Fish Commission of Oregon

Chinook

Pnk-Blu	B. Creek (71)	157	6/09	26"	905
Pnk-Blu	B. Creek (71)	113	6/09	26"	905
Pnk-Red	B. Creek (70)	113	6/11	33"	217
Pnk-Blu	B. Creek (71)	157	6/11	29"	217
Pnk-Blu	B. Creek (71)	113	6/13	33"	487
Pnk-Blu	B. Creek (71)	113	6/13	32"	487
Pnk-Blu	B. Creek (71)	157	6/16	29"	744
Pnk-Yel	Trask (70)	157	6/17	35"	954
Pnk-Red	B. Creek (70)	113	6/20	33"	461
Pnk-Red	B. Creek (70)	113	6/20	32"	461
Pnk-Red	B. Creek (70)	114	6/23	32"	200
Pnk-Blu	B. Creek (71)	157	6/24	32"	1083
Pnk-Blu	B. Creek (71)	157	6/24	30"	1083
Pnk-Red	B. Creek (70)	157	6/24	34"	1083
Pnk-Yel	Trask (70)	157	6/24	31"	1119
Pnk-Blu	B. Creek (71)	157	6/24	26"	1119
Pnk-Blu	B. Creek (71)	157	6/24	26"	1119
Pnk-Blu	B. Creek (71)	157	6/24	28"	1119
Pnk-Yel	Trask (70)	157	6/24	34"	1119
Pnk-Blu	B. Creek (71)	157	6/30	29"	2068
Pnk-Yel	Trask (70)	157	6/30	35"	2068
Pnk-Yel	Trask (70)	157	6/30	36"	2068

PELICAN

Fish Commission of Oregon

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
Pnk-Yel	Trask (70)	157	6/30	32"	2068
Pnk-Blu	B. Creek (71)	157	6/30	30"	2068
Pnk-Yel	Trask (70)	157	6/30	36"	2068
Pnk-Blu	B. Creek (71)	157	6/30	34"	2068
Pnk-Red	B. Creek (70)	157	6/30	31"	2068
Pnk-Blu	B. Creek (71)	157	7/01	29"	2357
Pnk-Blu	B. Creek (71)	157	7/01	27"	2357
Pnk-Blu	B. Creek (71)	157	7/01	29"	2357
Pnk-Blu	B. Creek (71)	157	7/01	28"	2357
Pnk-Blu	B. Creek (71)	157	7/01	28"	2357
Pnk-Blu	B. Creek (71)	157	7/01	28"	2357
Pnk-Blu	B. Creek (71)	157	7/01	27"	2357
Pnk-Blu	B. Creek (71)	157	7/01	29"	2357
Pnk-Red	B. Creek (70)	157	7/01	35"	2357
Pnk-Blu	B. Creek (71)	157	7/01	36"	2357
Pnk-Yel	Trask (70)	157	7/01	39"	2357
Pnk-Red	B. Creek (70)	157	7/02	28"	1295
Pnk-Blu	B. Creek (71)	113	7/02	29"	101
Pnk-Blu	B. Creek (71)	157	7/03	29"	301
Pnk-Blu	B. Creek (71)	157	7/03	33"	301
Pnk-Yel	Trask (70)	113	7/07	35"	552
Pnk-Red	B. Creek (70)	113	7/07	34"	552
Pnk-Red	B. Creek (70)	113	7/07	36"	552
Pnk-Red	B. Creek (70)	113	7/07	35"	552
Pnk-Blu	B. Creek (71)	157	7/07	29"	306
Pnk-Blu	B. Creek (71)	157	7/08	31"	543
Pnk-Blu	B. Creek (71)	157	7/08	30"	543
Pnk-Red	B. Creek (70)	157	7/10	34"	293
Pnk-Yel	Trask (70)	157	7/10	36"	293
Pnk-Yel	Trask (70)	157	7/10	34"	293
Pnk-Blu	B. Creek (71)	113	7/11	28"	411
Pnk-Red	B. Creek (70)	113	7/14	37"	151
Pnk-Blu	B. Creek (71)	116	7/14	27"	55
Pnk-Red	B. Creek (70)	157	7/14	36"	764
Pnk-Red	B. Creek (70)	157	7/14	38"	764
Pnk-Blu	B. Creek (71)	157	7/14	32"	764
Pnk-Blu	B. Creek (71)	157	7/14	33"	764
Pnk-Yel	Trask (70)	157	7/15	36"	935
Pnk-Blu	B. Creek (71)	157	7/15	32"	935
Pnk-Blu	B. Creek (71)	157	7/15	28"	935
Pnk-Blu	B. Creek (71)	157	7/15	31"	935
Pnk-Red	B. Creek (70)	157	7/15	32"	935
Pnk-Blu	B. Creek (71)	157	7/15	33"	935
Pnk-Blu	B. Creek (71)	113	7/15	32"	113
Pnk-Red	B. Creek (70)	113	7/15	33"	113
Pnk-Red	B. Creek (70)	157	7/17	40"	199
Pnk-Blu	B. Creek (71)	113	7/21	30"	166

PELICAN

Fish Commission of Oregon

Chinook

CODE	RELEASE LOCATION	RECOVERY LOCATION	RECOVERY DATE	FORK LENGTH	SAMPLE SIZE
Pnk-Red	B. Creek (70)	157	7/21	36"	762
Pnk-Blu	B. Creek (71)	157	7/21	31"	762
Pnk-Blu	B. Creek (71)	157	7/21	35"	762
Pnk-Blu	B. Creek (71)	157	8/04	31"	413
Pnk-Blu	B. Creek (71)	157	8/04	32"	413
Pnk-Red	B. Creek (70)	157	8/04	33"	413
Pnk-Red	B. Creek (70)	157	8/04	36"	413
Pnk-Blu	B. Creek (71)	157	8/05	29"	464
Pnk-Yel	Trask (70)	157	8/06	37"	613
Pnk-Yel	Trask (70)	157	8/06	31"	613
Pnk-Red	B. Creek (70)	157	8/06	36"	613
Pnk-Red	B. Creek (70)	157	8/13	35"	1312
Pnk-Blu	B. Creek (71)	157	8/13	32"	1312
Pnk-Yel	Trask (70)	157	8/15	37"	1312
Pnk-Red	Trask (70)	157	8/30	37"	369
Pnk-Yel	Trask (70)	157	8/30	36"	369
Pnk-Blu	Trask (70)	157	9/02	33"	422
Pnk-Red	Trask (70)	113	9/03	37"	411
Pnk-Red	Trask (70)	113	9/06	38"	234

SITKA

National Marine Fisheries Service

Coho

CODE	RECOVERY DATE	STATISTICAL AREA	FORK LENGTH
3-1-5	7/09	113	25"
3-1-5	7/11	113	22"
3-1-5	7/15	113	22"
3-1-6	7/16	113	25"
3-1-6	7/16	113	25"
3-1-7	7/17	113	23"
3-1-8	7/17	113	23"
3-1-7	7/17	113	23"
3-1-8	7/17	113	22"
3-1-8	7/17	113	25"
3-1-6	7/17	113	27"
3-1-6	7/25	113	23"
3-1-5	8/04	113	26"
3-1-5	8/04	113	25"
3-1-2	8/04	113	25"
3-1-6	8/04	113	21"
3-1-7	8/04	113	25"
3-1-7	8/11	113	26"
3-1-7	8/11	113	27"
3-1-8	8/12	113	26"
3-1-7	8/12	113	25"
3-1-5	8/14	113	26"
3-1-5	8/14	113	26"
3-1-3	8/15	113	23"
3-1-5	8/15	113	26"
3-1-4	8/15	113	24"
3-1-5	8/15	113	24"
3-1-4	8/15	113	25"
3-1-8	8/16	113	22"
3-1-8	8/16	113	26"
3-1-3	8/18	113	26"
3-1-5	8/18	113	27"
3-1-5	8/18	113	25"
3-1-4	8/18	113	28" (Lost tag)
3-1-7	8/18	113	27"
3-1-5	8/18	113	24"
3-1-8	8/18	113	22"
3-1-7	8/18	113	23"
3-1-6	8/18	113	23"
3-1-5	8/18	113	24"
3-1-4	8/18	113	25"
3-1-4	8/18	113	25"
3-1-8	8/18	113	25"
3-1-8	8/18	113	26"
3-1-5	8/18	113	26"
3-1-6	8/18	113	25"

SITKA

National Marine Fisheries Service

Coho

CODE	RECOVERY DATE	STATISTICAL AREA	FORK LENGTH
3-1-7	8/18	113	25"
3-1-6	8/20	113	25"
3-1-3	8/20	113	28"
3-1-4	8/22	113	27"
3-1-7	8/23	113	28"
3-1-8	8/23	113	27"
3-1-4	8/23	113	22"
3-1-4	8/23	113	27"
3-1-5	8/25	113	26"
3-1-8	8/25	113	26"

PELICAN

National Marine Fisheries Service

Coho

3-1-4	7/08	157	25"
3-1-8	7/08	157	20"
3-1-4	8/04	113	28"
3-1-3	8/04	157	27"
3-1-7	8/06	157	28"
3-1-4	8/07	157	26"
3-1-4	8/13	113	28"
3-1-3	8/13	157	26"
3-1-2	8/14	113	27"
3-1-2	8/14	113	22"
3-1-3	8/14	157	26"
3-1-3	8/14	157	26"
3-1-3	8/15	157	28"
3-1-7	8/15	113	28"
3-1-3	8/15	113	26"
3-1-8	8/20	157	24"
3-1-3	8/20	157	26"
3-1-8	8/27	Little Port	26"
3-1-3	8/27	Little Port	24"
3-1-3	9/03	113	24"
3-1-4		Little Port	28"

GRAIG

National Marine Fisheries Service

Coho

CODE	RECOVERY DATE	STATISTICAL AREA	FORK LENGTH
3-1-7	7/02	103	26"
3-1-5	7/19	103	23"
3-1-8	7/19	103	22"
3-1-6	7/21	103	25"
3-1-7	7/25	103	23"
3-1-8	7/31	103	23"
3-1-6	8/01	103	25"
3-1-8	8/07	103	21"
3-1-5	8/11	103	25"
3-1-4	8/14	103	24"
3-1-8	8/15	103	25"

PETERSBURG

National Marine Fisheries Service

Coho

3-1-6	7/25	109	23"
3-1-4	7/25	110	25"
3-1-6	8/12	109	27"
3-1-4	8/15	113	27"
3-1-4	8/15	113	27"
3-1-5	8/19	109	28"
3-1-5	8/19	109	26"
3-1-7	8/19	109	26"
3-1-6	8/19	109	27"
3-1-5	8/19	109	28"
3-1-5	8/19	109	29"
3-1-3	8/19	109	28"
3-1-7	8/19	109	25"
3-1-3	8/19	109	23"
3-1-6	8/19	109	27"
3-1-6	8/19	109	24"
3-1-5	8/29	109	28"
3-1-7	9/06	109	29"
3-1-6	9/11	109	26"
3-1-5	9/11	109	21"
3-1-2	9/17	105	29"

PETERSBURG

Fisheries Rehabilitation and Enhancement Division

Coho

CODE	RECOVERY DATE	STATISTICAL AREA	FORK LENGTH
4-1-4	8/07	106	23"
4-1-9	8/15	113	26"
4-1-6	8/16	110	22"

CRAIG

Fisheries Rehabilitation and Enhancement Division

Coho

4-1-6	8/18	103	20"

PELICAN

Fisheries Rehabilitation and Enhancement Division

Coho

4-1-6	8/14	113	22"

SITKA

Fisheries Rehabilitation and Enhancement Division

Coho

4-1-5	7/14	113	23"
4-1-6	7/18	113	21"
4-1-6	7/21	113	22"
4-1-6	8/04	113	26"
4-1-9	8/21	113	19"
4-1-9	9/09	113	25"

SITKA

Canadian Fisheries Service

Coho

CODE	RECOVERY DATE	STATISTICAL AREA	FORK LENGTH
	7/07	113	26"

CRAIG

Canadian Fisheries Service

Coho

2-9-1	7/24	103	24"

Appendix Table B. Estimates of Fishery Contribution and Exploitation Rates for Chinook Salmon in the Southeastern Alaska Commercial Troll Fishery - 1975.

AGENCY	HATCHERY	CODE	NO. OF RECOV.	% TAGGED	EST. FISH IN SAMPLE	% SAMPLED	EST. CONTRIB. TO FISHERY	*EXPLOITATION RATE
WDF	Soleduck	3- 2	60	28	214	33.4	640	0.7
WDF	Soleduck	3- 3	43	44	98	33.4	293	0.3
WDF	Soleduck	5- 2	19	23	82	33.4	245	0.06
WDF	Soleduck	2-14	40	95	42	33.4	125	0.5
WDF	Soleduck	3- 0	10	100	10	33.4	30	0.06
WDF	Soleduck	3- 1	5	21	23	33.4	68	0.05
WDF	Soleduck	3- 8	1	13	8	33.4	23	0.01
WDF	Soleduck	2-13	1	25	4	33.4	12	0.03
WDF	Nemah	2- 4	41	43	95	33.4	284	0.4
WDF	Nemah	0- 9	34	31	109	33.4	326	0.1
WDF	Nemah	2- 2	34	14	242	33.4	724	0.2
WDF	Nemah	1-15	1	95	1	33.4	2	0.004
WDF	Nemah	11- 1	2	8	25	33.4	74	0.008
WDF	Nemah	10-14	3	21	14	33.4	41	0.01
WDF	Issaquah	11- 2	2	85	2	33.4	6	0.01
WDF	Issaquah	2- 9	3	10	30	33.4	89	0.02

AGENCY	HATCHERY	CODE	NO. OF RECOV.	% TAGGED	EST. FISH IN SAMPLE	% SAMPLED	EST. CONTRIB. TO FISHERY	*EXPLOITATION RATE
WDF	Skagit	1- 1	1	90	1	33.4	3	0.02
WDF	Willapa	10-11	1	96	1	33.4	3	0.004
WDF	Skykomish	8- 3	1	84	1	33.4	3	0.008
WDF	Kalama	6- 8	38	30	126	33.4	377	0.4
WDF	Kalama	5- 6	3	96	3	33.4	8	0.01
WDF	Kalama	7-13	4	50	8	33.4	23	0.03
WDF	Kalama	7-12	3	100	3	33.4	8	0.04
WDF	Kalama	6- 7	1	5	20	33.4	60	0.3
WDF	Toutle	8- 4	4	100	4	33.4	11	0.06
WDF	Toutle	8- 2	3	96	3	33.4	9	0.04
WDF	Toutle	7-14	1	NA				
WDF	Cowlitz	7- 4	6	13	46	33.4	138	0.1
WDF	Cowlitz	7- 5	5	13	38	33.4	113	0.1
WDF	Cowlitz	6-15	7	14	50	33.4	149	0.009
WDF	Cowlitz	6- 9	1	17	5	33.4	14	0.008
WDF	Cowlitz	7- 1	1	22	5	33.4	15	0.01

AGENCY	HATCHERY	CODE	NO. OF RECOVS.	% TAGGED	EST. FISH IN SAMPLE	% SAMPLED	EST. CONTRIB. TO FISHERY	*EXPLOITATION RATE
WDF	Cowlitz	7- 6	3	13	23	33.4	69	0.05
WDF	Cowlitz	7- 3	2	50	4	33.4	12	0.01
WDF	Cowlitz	6-13	3	14	21	33.4	63	0.03
WDF	Cowlitz	13- 7	1	100	1	33.4	3	0.006
WDF	Cowlitz	5-14	2	18	11	33.4	33	0.02
WDF	Green River	8- 6	2	63	3	33.4	9	0.02
WDF	Green River	2- 3	11	37	30	33.4	90	0.03
WDF	Green River	12- 2	1	47	2	33.4	6	0.003
WDF	Hood Canal	7- 2	3	98	3	33.4	9	0.05
WDF	Hood Canal	0- 6	1	92	1	33.4	3	0.03
WDF	Hood Canal	0- 7	2	65	3	33.4	9	0.04
WDF	Hood Canal	1- 3	1	100	1	33.4	3	0.02
WDF	Simpson	6- 5	5	43	12	33.4	36	0.04
WDF	Dungeness	7-15	4	42	9	33.4	27	0.03
CFS (Canadian)	Robertson	11- 1	3	15	20	33.4	60	0.02
CFS	Robertson	8- 1	2	13	15	33.4	45	0.01

AGENCY	HATCHERY	CODE	NO. OF RECOVS.	% TAGGED	EST. FISH IN SAMPLE	% SAMPLED	EST. CONTRIB. TO FISHERY	*EXPLOITATION RATE
CFS	Robertson	5- 1	10	5	200	33.4	598	0.1
CFS	Puntledge	3- 2	1	39	3	33.4	9	0.007
CFS	Puntledge	4- 1	1	80	1	33.4	3	0.006
CFS	Qualicum	Brn-Blu	2	88	2	33.4	6	0.004
CFS	Qualicum	Brn-Grn	1	15	7	33.4	21	0.02
CFS	Qualicum	Lt.Grn-Yel	1	23	4	33.4	12	0.008
CFS	Qualicum	Grn-Ox.Yel	2	18	11	33.4	33	0.04
CFS	Qualicum	Lt.Grn-Blu	1	22	4	33.4	12	0.02
CFS	Qualicum	Lt.Blu-Ox.Red	14	14	7	33.4	21	0.02
ODFW	Trask	Yel	26	100	26	33.4	78	0.15
ODFW	Trask	Blu	70	81	86	33.4	257	0.15
ODFW	Trask	Red	42	42	100	33.4	299	0.24
BSFW	Spring Creek	3- 1	1	13	8	33.4	24	0.001
BSFW	Leavenworth	Pur-Red	2	33	6	33.4	18	0.006
NMFS	Little Port	3- 1- 2	1	100	1	33.4	3	0.04

$$* \frac{\text{No. of Rec.} \times \text{\% Tagged}}{\text{\% Sampled}} = \text{Est. Contrib. To Fishery} \times \text{Total Release} = \text{Exploitation Rate}$$

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