## SOUTHEAST ALASKA PORT SAMPLING PROJECT Report for the Period July 1, 1987 to June 30, 1991

By

Glen T. Oliver

## Regional Information Report<sup>1</sup> No. 1J91-23

Alaska Department of Fish and Game Division of Commercial Fisheries Juneau, Alaska

December 1991

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#### ACKNOWLEDGEMENTS

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The author is grateful to those who collected data in the Port Sampling Project. Special thanks go to port sampling supervisors Ben Van Alen, Scott McPherson, Mindy Rowse, Andrew McGregor, Demarie Wood, Brian Lynch, Karl Hofmeister, Lane Johnson, and Jan Weller. Also making significant contributions to sampling were Mark Olsen, Jerry Koerner, Steve Heinl, Karen Smith, Iris Frank, Linea Neuman, Cathy Robinson, Jamie Latham, and all individual port samplers around the region. Renate Riffe compiled the tables for this report. Thanks also to Gary Gunstrom for his editorial review and to Julie Kallem for final preparation of the manuscript.

#### PROJECT SPONSORSHIP

This investigation was financed with Anadromous Fish Conservation Act (P.L. 89-304 as amended) funds under Awards NA87-ABD-00301, NA88-ABD---304, NA89AA-D-FM110, and NA90AA-D-AN246, and with U.S./Canada Pacific Salmon Treaty funds under Cooperative Agreements no.s NA87-ABH-00025, NA88-ABH-0045, NA90AA-H-FM010, and NA90AA-H-FM674.

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#### INTRODUCTION

This Federal Aid Project provided funding to the Alaska Department of Fish and Game, Division of Commercial Fisheries, for collection of biological and fleet performance data at major ports of landing in Southeast Alaska and Yakutat during the 1987-1991 troll, gill net, and purse seine fisheries. This data is used by federal, state, and private agencies in a variety of management and research applications. All port sampling activities associated with coded microwire tag (CWT) recovery, troll fishery performance data (FPD), biological sampling for scale, age, sex, and size (AWL) data, and sex-ratio sampling were unified under this project. Federal Pacific Salmon Treaty research funding supported the sampling of sockeye salmon for AWL data in southern Southeast Alaskan catches and escapements.

This project supported three components: (1) CWT sampling; (2) AWL sampling and; (3) FPD sampling. This report includes summaries of CWT, AWL, and FPD sampling effort.

Tables of sampling effort for the final year of the contract, the 1990 season, are presented here. Tables of sampling effort for prior years of the contract are presented in the appropriate annual reports.

#### CODED MICROWIRE TAG RECOVERY

#### Methods and Procedures

Project goals were to sample a minimum of 20% of both the chinook and coho salmon harvested in the troll and net fisheries; 20% of the chum salmon harvested in each of the Districts 101-114 net fisheries; and 20% of the sockeye salmon harvested in the each of the Districts 101 through 108 seine and gill net fisheries. The fall run of chum salmon in the District 102 purse seine fishery is not specifically sampled since it is a wild stock fishery and none of the stocks targeted are represented by coded wire tags. The same is true for the District 115 gill net fishery. Pacific Salmon Commission funds supported increased sampling effort on chinook salmon throughout the year.

Alaska Department of Fish and Game employees representatively sampled chinook, coho, chum, and sockeye salmon for CWT data throughout the duration of the 1987-1990 troll, purse seine, and gill net fisheries. Samplers were stationed at the principal ports of Sitka, Port Alexander, Pelican, Juneau, Petersburg, Wrangell, Ketchikan, Craig, Excursion Inlet, Hoonah, and Yakutat. Data and heads of all marked fish sampled were sent to the Fisheries Research, Enhancement, and Development Division's (ADF&G) tag lab in Juneau on a weekly basis. The sampling effort was monitored throughout the season and adjustments were made in manpower and sampling assignments among the ports to assure that the sampling level was representative throughout the region.

#### Results and Discussion

Our CWT sampling goals were generally met or exceeded for all species in the troll and gill net fisheries. However, some undersampling of coho, chum, and sockeye salmon occurred in the purse seine fisheries. This undersampling

typically occurs around the peak of the pink salmon return when samplers have to search through many pink salmon to find the species they wish to sample. Some undersampling also occurred in those purse seine and gill net fisheries in which few of the target species were caught.

Project personnel sampled 118,064 (35.6%) of a total catch of 334,064 chinook salmon in the 7/1/90-6/30/91 troll fisheries (Table 1). A total of 467,766 coho salmon were sampled from the troll fisheries, for a sampling rate of 20.4% (Table 2).

In the 1990 regional purse seine fisheries, a total of 5,022 chinook (Table 3), 81,033 coho (Table 4), 225,644 chum (Table 5), and 202,585 sockeye salmon (Table 6) were sampled, resulting in respective sampling rates of 34%, 21%, 21%, and 21%.

In 1990 gill net fisheries, regional personnel sampled 4,373 chinook (Table 7), 108,758 coho (Table 8), 202,657 chum (Table 9), and 128,034 (Districts 101-108 only) sockeye salmon (Table 10). This effort corresponded to 28% of the chinook, 21% of the coho, 29% of the chum, and 39% of the sockeye (Dist. 101-108) salmon harvested. These totals include Annette Island Fishery Reserve gill net catches which were sampled in Metlakatla, under a separate program, by local residents.

#### SCALE, AGE, SEX, AND SIZE SAMPLING

#### Methods and Procedures

The annual goal of the project is to develop a comprehensive data base on the abundance, age, sex, and size composition of sockeye, chum, coho, and chinook salmon in Southeast Alaska catches and escapements. This data base should enable us to test models which estimate stock contributions and interceptions, to determine migratory timing patterns, to develop spawner/recruit relationships, and to make preseason and in-season forecasts of returns.

Scale, age, sex, and size data (AWL) were collected by ADF&G employees from catches at all ports listed above, and escapements of chinook, sockeye, chum, and coho salmon from throughout Southeast Alaska and Yakutat during the summer of 1990. Project personnel sampled chinook salmon from the winter troll fishery, chinook and coho salmon from the summer troll fishery, and chinook, coho, sockeye, and chum salmon from the purse seine and gill net fisheries. From the Yakutat area set net catches we sampled chinook, coho, sockeye, and chum salmon. Chinook, coho, sockeye, and chum salmon escapements were sampled by ADF&G and other agency personnel in many major and minor systems in the region.

Sampling goals, by stratum, were designed to collect sufficient numbers to estimate the proportion of each age class to within  $\pm$  5 percentage points 90% of the time in each stratum based on the standard binomial formulae (Cochran 1977). For major net fisheries, the desired strata was for weekly catch by district and gear type. Troll fishery strata combined districts into quadrants. Those species with more age classes required greater sample sizes. Generally between 400 to 500 samples per strata were sufficient to achieve the goals.

Pink salmon sex-ratio sampling was conducted to accumulate the data base required to determine if run timing could be monitored based on the sex ratios found in

the weekly harvests. The goal was to sample a minimum of 300 pink salmon for sex each week from locations within the purse seine fisheries. Particular sampling locations were chosen because they: 1) were usually open to weekly fishing; and 2) we could usually obtain mixed samples from these locations.

#### Results and Discussion

In general, all AWL sampling goals were achieved in 1990. The 1990 AWL sample collection by species, gear, and week are presented in Tables 11-20. Compilation of AWL data for sockeye salmon were currently under review and will be presented by Rowse (in prep). Compilation of data for other species is currently being prepared by Pahlke (in prep) for chinook salmon, Dangel (in prep) for chum salmon, and Wood (in prep) for coho salmon. AWL data for salmon sampled in Yakutat area fisheries will be presented in Rowse (in prep).

A summary of the numbers of pink salmon sex-ratio sampled in 1989, as well as the samples sex-ratio, is presented in Table 21.

#### FISHERY PERFORMANCE DATA

The project goal was to sample 2,000 randomly selected summer troll fishery deliveries for FPD.

Alaska Department of Fish and Game employees sampled summer troll deliveries to the ports listed above for fishery performance data. The FPD sampling was conducted in conjunction with CWT sampling. Troll fishermen were interviewed at the time of landing to obtain catch and effort data. This FPD data was used primarily to estimate chinook salmon harvests to date and to project catch rates as sales receipts ("fish tickets") that provide this information are not available until several days after the fish are sold. These estimates were essential for in-season regulation of the fishery to insure that chinook salmon catch quotas set by the Alaska Board of Fisheries, the North Pacific Fishery Management Council, and the Pacific Salmon Commission were not exceeded. Approximately 1,922 complete FPD interviews were obtained from the 1990 summer troll fishery. Detailed FPD sampling rates are presented in Table 22.

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Period 07/01/90- 07/07/90 Cato Samp % 07/08/90- 07/14/90 Cato Samp % 07/15/90- 07/21/90 Cato Samp % 07/22/90- 07/28/90 Cato Samp	·	Northern Outside 48,646	Southern Inside	Southern Outside	Total
07/01/90- 07/07/90 Cato Samp % 07/08/90- 07/14/90 Cato Samp % 07/15/90- 07/21/90 Cato Samp % 07/22/90- 07/28/90 Cato	Inside 	Outside			Total
07/01/90- 07/07/90 Cato Samp % 07/08/90- 07/14/90 Cato Samp % 07/15/90- 07/21/90 Cato Samp % 07/22/90- 07/28/90 Cato	ch 4,824				
Samp 8 07/08/90- 07/14/90 Cato Samp 8 07/15/90- 07/21/90 Cato Samp 8 07/22/90- 07/28/90 Cato		48,646			
Samp 8 07/08/90- 07/14/90 Cato Samp 8 07/15/90- 07/21/90 Cato Samp 8 07/22/90- 07/28/90 Cato		,	8,295	10,568	72,333
8 07/08/90- 07/14/90 Cato Samp 8 07/15/90- 07/21290 Cato Samp 8 07/22/90- 07/28/90 Cato		8,044	2,861	3,837	16,944
Samp 8 07/15/90- 07/21/90 Cato Samp 8 07/22/90- 07/28/90 Cato	45.65	16.54	34.49	36.31	23.42
Samp 8 07/15/90- 07/21/90 Cato Samp 8 07/22/90- 07/28/90 Cato	ch 4,856	36,841	5,641	4,640	51,978
ہ 07/15/90- 07/21290 Cato Samp ہ 07/22/90- 07/28/90 Cato		10,377	3,123	2,053	18,126
Samr % 07/22/90- 07/28/90 Catc	52.99	28.17	55.36	44.25	34.87
Samr % 07/22/90- 07/28/90 Catc	ch 4,755	36,147	5,595	4,001	50,498
8 07/22/90- 07/28/90 Cate		5,350	2,994	1,358	11,682
_	41.64	14.80	53.51	33.94	23.13
Sam	ch 1,473	20,885	2,397	918	25,673
	ole 1,305	7,177	1,210	429	10,121
÷	88.59	34.36	50.48	46.73	39.42
07/29/90- 12/31/90 Cate	ch 13,326	12,988	4,321	948	31,583
Samp	ple 9,514	3,323	1,924	170	14,931
8	71.39	25.59	44.53	17.93	47.28
01/01/91- 04/20/91 Cate	ch 5,576	12,390	3,663	1,293	22,922
Samp	ple 3,977	4,813	1,371	144	10,305
8	71.32	38.85	37.43	11.14	44.96
06/02/91- 06/08/91 Cate	•	6,045	9,456	3,166	27,371
Sam	• •	3,025	4,236	1,235	14,006
9	63.30	50.04	44.80	39.01	51.17
06/09/91- 06/15/91 Cato		536	4,097	21	5,507
Sam		393	1,943		3,164
8	97.07	73.32	47.42	0.00	57.45
06/16/91- 06/22/91 Cate		13,378	7,284	3,742	27,776
Sam	•	4,847	4,008	560	11,093
8	49.76	36.23	55.02	14.97	39.94
06/23/91- 06/29/91 Cate	-	368	3,360	12,707	18,423
Sam		187	1,657	5,395	8,544
8	65.64	50.82	49.32	42.46	46.38
Total Cato	ch 49,727	188,224	54,109	42,004	334,064
Samp		47,536	25,327	42,004	118,916
ج عداناً	62.08	25.26	46.81	36.14	35.60
		£J.£0	#0.0L	20.14	

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Table 1. Chinook salmon coded wire tag sampling effort summary for the Southeast Alaska commercial troll fisheries, 07/01/90- 06/29/91.

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Period		Northern Inside	Northern Outside	Southern Inside	Southern Outside	Total
07/01/90- 07/07/90	Catch	4,105	29,905	15,911	31,306	81,22
	Sample	1,905	3,868	4,786	11,127	21,680
	ł	46.41	12.93	30.08	35.54	26.70
7/08/90- 07/14/90	Catch	13,828	60,451	19,776	55,561	149,610
	Sample %	5,275 38.15	11,791 19.51	6,478 32.76	19,550 35.19	43,094 28.80
7/15/90- 07/21/90	Catch	17,377	117,145	15,878	73,095	223,495
1/13/30~ 01/21/30	Sample	6,514	18,878	6,750	26,832	58,974
	e e	37.49	16.12	42.51	36.71	26.39
7/22/90- 07/28/90	Catch	19,955	96,724	14,860	50,243	181,782
	Sample	3,521	23,833	5,012	16,281	48,64
	ŧ	17.64	24.64	33.73	32.40	26.70
7/29/90- 08/04/90	Catch	28,356	172,271	17,134	46,027	263,78
	Sample	5,220	41,651	9,608	13,362	69,84
	*	18.41	24.18	56.08	29.03	26.4
8/05/90- 08/11/90	Catch	25,763	129,111	17,721	34,148	206,74
	Sample	5,946	29,571	1,673	5,104	42,29
	8	23.08	22.90	9.44	14.95	20.4
8/12/90- 08/18/90	Catch	8,136	107,455	15,147	19,819	150,55
	Sample	2,937	38,910	6,426	9,209	57,48
	8	36.10	36.21	42.42	46.47	38.1
8/19/90- 08/25/90	Catch	13,704	76,153	11,093	12,367	113,31
	`Sample ∶%	1,213 8.85	10,443 13.71	578 5.21	1,704 13.78	13,93 12.3
	<b>0</b> - <b>b</b> - b	17 005	127 500	22 205	10 005	200 00
8/26/90- 09/01/90	Catch Sample	17,985 3,904	137,522 30,252	32,395 7,113	12,985 1,419	200,88 42,68
	ł	21.71	22.00	21.96	10.93	21.2
9/02/90- 09/08/90	Catch	9,499	80,489	22,514	6,859	119,36
	Sample	1,398	14,088	6,510	1,541	23,53
	*	14.72	17.50	28.92	22.47	19.7
9/09/90- 09/15/90	Catch	6,437	60,752	25,190	3,102	95,48
	Sample	3,027	19,200	4,891	1,308	28,42
	÷	47.03	31.60	19.42	42.17	29.7
9/16/90- 09/22/90	Catch	2,197	15,556	15,369	97	33,21
	Sample	859	11,391	3,855	208	16,31
	응	39.10	73.23	25.08	214.43	49.1
06/16/91- 06/22/91	Catch	170	162	956	775	2,06
	Sample %	37 21.76	3 1.85	495 51.78	55 7.10	59 28.6
06 / 22 / 01 06 / 20 / 01	Catab					70
06/23/91- 06/29/91	Catch Sample	93 44	251	360 212		70 25
	8 Dambie	47.31	0.00	58.89		36.3
Total	Catch		1,083,947	224,304	346,384	2,290,10
	Sample		253,879	64,387	107,700	467,76
	÷	24.94	23.42	28.71	31.09	20.4

Table 2. Coho salmon coded wire tag sampling effort summary for the Southeast Alaska commercial troll fisheries, 07/01/90- 06/29/91.

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							Dis	trict						
Stat Week	-	101	102	103	104	105	106	107	109	110	112	113	114	Tota
	Catch Sample %							666 0 0.00						66 0.0
	Catch Sample %	234 3 1.28			13 11 84.62			1,435 1,073 74,77			176 172 97.73		24 13 54.17	1,80 1,21 67.9
	Catch Sample §	12 2 16.67	189 0 0.00		64 72 112.50			590 126 21.36		22 67 304.55	52 95 182.69			9) 31 38.9
	Catch Sample	10 0 0.00	16 0 0.00		0 18 ERR			7 0 0.00		61 49 80.33	168 105 62.50	42 17 40.48		3 1 62,1
	Catch Sample §	121 6 <b>4.96</b>	65 9 13.85		49 3 6.12				37 13 35.14	139 134 96.40	94 127 135.11			5) 21 57.1
	Catch Sample ¥	103 0 0.00	39 0 0.00	30 0 0.00	93 87 93,55				250 284 113.60	14 15 107.14	86 52 60.47	3 1 33.33		6 4 71.0
	Catch Sample ¥	102 34 33.33	76 2 2.63	28 0 0.00	4,398 1,063 24,17				213 201 94.37	14 22 157.14	38 9 23.68	7 0 0.00	125 35 28.00	5,0 1,3 27,1
33	Catch Sample %	233 5 2.15	168 5 2,98	267 54 20.22	2,965 643 21.69	3 0 0.00			18 12 66.67		88 50 56.82	2 0 0.00		3,7 7 20.
34	Catch Sample %	18 0 0.00	61 1 1.64	10 43 430.00	85 39 45.88	0 2 ERR	5 1 20.00	1 0 0.00	3 17 566.67		2 0 0.00		1 0 0.00	1 1 55.
35	Catch Sample %	9 1 11.11	166 13 7.83	114 12 10.53	690 192 27.83	4 0 0.00	11 3 27.27		19 3 15,79		5 4 80.00			1,0 2 22.
36	Catch Sample %													
37	Catch Sample ¥												4 1 25,00	25.
38	Catch Sample %		2 0 0.00											0.
39	Catch Sample %		-											
40	Catch Sample %													
41	Catch Sample %													
Total	Catch Sample	842 51 6.06	782 30 3.84	449 109 24.28	8,357 2,128 25.46	7 2 28.57	16 4 25.00	2,699 1,199 44.42	540 530	250 288 115.20	709 614 86.60	54 18 33.33	154 49 31.82	14,8 5,0 33.

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# Table 3. Chinook salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1990.

							Dist	rict						
Stat Week		101	102	103	104	105	106	107	109	110	112	113	114	Tota
27	Catch Sample	434 82 18.89			25,507 10,631 41.68			1 0 0.00			92 55 59,78		13 7 53.85	26,04 10,77 41.3
28	Catch Sample f	225 126 56,00	1,675 494 29.49		25,821 8,833 34,21					54 32 59.26	208 115 55,29			27,98 9,66 34.5
29	Catch Sample	565 117 20.71	2,759 1,568 56.83		10,288 3,229 31,39					145 14 9.66	318 35 11.01	45 18 40.00	29 9 31.03	14,14 4,99 35.2
30	Catch Sample	1,827 440 24.08	5,614 270 4.81		2,349 1,041 44.32				102 9 8.82	853 242 28.37	1,429 419 29.32			12,17 2,42 19.8
31	Catch Sample	1,938 346 17.85	3,076 304 9.88	1,293 545 42.15	45,060 10,794 23.95				5,026 1,838 36.57	331 83 25.08	1,949 545 27.96	106 76 71.70		58,77 14,53 24,7
32	Catch Sample %	5,052 887 17.56	5,176 726 14.03	2,076 0 0.00	23,575 5,751 24.39				6,828 2,433 35.63	400 254 63.50	3,089 395 12,79	150 102 68.00	2,007 273 13.60	48,35 10,82 22,3
33	Catch Sample %	7,305 308 4.22	8,061 228 2.83	7,194 276 3.84	38,207 8,194 21,45	329 67 20,36			3,579 526 14.70		5,420 1,462 26.97	157 140 89,17	249 27 10.84	70,50 11,29 16.0
34	Catch Sample	6,073 828 13.63	14,983 421 2.81	5,758 347 6.03	19,621 2,982 15.20	144 30 20.83	2,855 448 15.69	3,947 `42 1.06	2,278 1,142 50.13		3,372 80 2.37		677 0 0.00	59,70 6,32 10.5
35	Catch Sample	11,685 1,639 14.03	17,900 1,521 8.50	8,934 1,084 12.13	7,814 2,185 27,96	260 21 8.08	2,577 490 19.01	678 415 61,21	2,655 570 21.47		1,149 202 17.58	56 0 0.00		53,70 8,12 15.1
36	Catch Sample	755 639 84.64							53 31 58,49					80 67 82,9
37	Catch Sample %	1,745 0 0.00	994 18 1.81										565 98 17.35	3,30 11 3.5
38	Catch Sample §	1,997 1,254 62.79	749 20 2.67											2,74 1,29 47,2
39	Catch Sample \$	60 0 0.00	558 0 0.00											61 0.0
40	Catch Sample %		316 0 0.00											31 0.0
41	Catch Sample %	30 0 0.00												: 0.0
<b>fotal</b>	Catch Sample	39,691 6,666 16.79	61,861 5,570 9.00	25,255 2,275 9.01	198,242 53,640 27.06	733 118 16.10	5,432 938 17.27	4,626 457 9.88	20,521 6,616 32.24	1,783 695 38.98	17,026 3,308 19.43	514 336 65,37		379,22 81,03 21.3

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## Table 4. Coho salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1990.

							Dis	trict						
itat leek		101	102	103	104	105	106	107	109	110	112	113	114	Tota
27	Catch Sample	2,965 636 21,45	•		26,018 11,653 44.79			11 7 63,64			48,442 10,049 20.74		1,727 832 48.18	79,16 23,17 29.2
28	Catch Sample <del>§</del>	1,485 960 64.65	1,690 257 15.21		13,733 5,015 36,52			30 8 26,67			67,372 21,821 32.39			85,51 28,54 33.3
29	Catch Sample	5,726 1,089 19.02	1,341 458 34.15		14,663 5,215 35.57		•	8 0 0,00			211,474 52,821 24.98	20,844 1,329 6.38	2,819 1,476 52.36	258,65 63,11 24.4
30	Catch Sample	18,005 2,678 14.87	3,439 215 6.25		2,947 273 9.26				19,321 3,024 15.65	7,949 1,625 20.44	70,083 15,982 22.80			121,74 23,79 19.5
31	Catch Sample	9,598 565 5.89	2,657 134 5.04	925 406 43.89	25,845 7,364 28.49				18,278 6,630 36.27	1,140 697 61.14	10,251 2,821 27.52	1,917 167 8,71		70,61 18,78 26.0
32	Catch Sample %	13,705 903 6.59	4,003 560 13,99	4,003 0 0.00	36,394 9,012 24.76				18,215 5,784 31.75	1,582 1,195 75.54	9,394 374 3.98	1,324 0 0.00	3,823 451 11.80	92,44 18,2 19.
33	Catch Sample	8,107 516 6.36	13,812 738 5.34	4,931 394 7,99	46,864 9,903 21.13	1,728 336 19.44			28,541 5,825 20.41		9,926 4,129 41.60	323 0 0.00	6,852 662 9.66	121,0 22,7 18.
34	Catch Sample %	10,694 460 4.30	18,464 89 0.48	13,035 350 2.69	32,409 5,664 17.48	243 526 216.46	1,038 239 23.03	2,078 48 2.31	4,478 2,235 49.91		2,455 120 4.89		10,889 1,272 11.68	95,7 11,0 11.
35	Catch Sample %	15,318 1,277 8.34	26,202 2,038 7.78	18,398 1,263 6.86	14,248 4,323 30.34	764 323 42.28	1,345 120 8.92	1,092 551 50.46	5,211 787 15.10		759 120 15.81	28 0 0.00		83,3 10,8 12.
36	Catch Sample %	930 0 0.00							11,249 4,639 41.24					12,1 4,6 38.
37	Catch Sample %	5,043 0 0.00	10,410 0 0.00										3,649 417 11.43	19,1 4 2.
38	Catch Sample §	2,226 38 1.71	9,389 202 2.15											11,6 3 2.
39	Catch Sample %	783 0 0.00	4,404 0 0.00											5,1 0.
40	Catch Sample %		9,510 0 0.00											9,5 0.
41	Catch Sample %	320 0 0.00												3 0.
otal	Catch Sample	•	105,321 4,691 4.45	2,508	213,121 58,422 27.41	2,735 1,185 43.33	2,383 359 15.07		105,293 28,992 27.53		430,156 108,237 25.16			1,066,2 225,6 21.

Table 5. Chum salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1990.

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							Dis	trict						
Stat Week	•	101	102	103	104	105	106	107	109	110	112	113	114	Tota
27	Catch Sample	834 236 28,30			24,485 10,232 41.79			2 1 50.00			309 99 32.04		228 0 0.00	25,85 10,56 40.8
28	Catch Sample	658 390 59.27	1,631 248 15.21		41,117 12,323 29.97					793 342 43.13	502 110 21.91			44,70 13,62 30.4
29	Catch Sample	1,767 275 15.56	4,115 888 21.58		64,795 22,269 34.37					635 94 14.80	404 8 1.98	852 0 0.00	83 0 0.00	
30	Catch Sample	11,433 1,281 11.20	13,242 1,514 11.43		39,546 9,725 24.59				115 0 0.00	1,630 22 1.35	4,015 250 6.23			69,98 12,79 18.2
31	Catch Sample %	8,938 1,144 12.80	7,550 450 5.96	930	166,001 38,598 23.25				3,680 53 1.44	374 0 0.00	3,976 0 0.00	1,378 0 0.00		193,38 41,17 21.2
32	Catch Sample	14,789 1,536 10.39	5,732 1,196 20.87		168,112 39,218 23.33				5,338 304 5.70	370 42 11.35	1,995 42 2.11	66 0 0.00		199,85 42,33 21.1
33	Catch Sample %	18,984 995 5.24	9,767 606 6.20		185,804 31,791 17.11	21 21 100.00			1,075 0 0.00		4,393 0 0.00	33 0 0.00		226,93 33,76 14.8
34	Catch Sample	4,065 668 16.43	5,179 226 4.36	4,998 959 19.19	92,721 18,201 19.63	12 6 50.00	857 93 10.85	1,197 60 5.01	428 0 0.00		1,481 0 0.00	0 0 ERR		112,50 20,21 17.9
35	Catch Sample %	3,463 750 21.66	3,936 280 7.11	4,581 178 3.89	14,201 3,022 21.28	33 0 0.00	410 128 31.22	102 123 120.59	147 0 0.00		362 0 0.00	14 0 0.00		27,24 4,48 16.4
36	Catch Sample f	83 92 110.84							1 0 0.00					6 9 109.5
37	Catch Sample %	10 0 0.00	48 4 8.33										233 0 0.00	29 1.3
38	Catch Sample	118 0 0.00	15 1 、6.67											13 2.2
39	Catch Sample †		5 0 0.00											0.0
40	Catch Sample %		1 0 0.00		•			•						0.0
41	Catch Sample §													
otal	Catch Sample	65,142 7,367 11.31	51,222 5,413 10.57		796,782 185,379 23.27	66 27 40.91	1,267 221 17.44	1,301 184 14.14	10,784 569 5.28	3,802 500 13.15	17,437 509 2.92	2,343 0 0.00	0	973,6 202,5 20.8

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Table 6. Sockeye salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1990.

					Di	strict				
Stat Week		101	106	107	108	111	115	182	183	Tota)
24	Catch				10				80	9
	Sample \$				0 0.00				5 6.25	5.5
25	Catch	593	409		446	487	19	43	50	2,04
	Sample	593 224	220		446 319	298	19 14	2	4	1,08
	4	37.77	53.79		71.52	61,19	73.68	4.65	8.00	52.8
26	Catch		162	2,106		547	75	206	82	3, 51
	Sample *	241 86.07	88 54.32	94	38	186 34.00	39	14	0	70
	4	86.07	34.32	4.46	64.41	34.00	52.00	6.80	0.00	19.9
27	Catch	395	133	1,983	55	1,361	216	21	63	4,22
	Sample	373	58	0	52	295	64	8	0	85
	*	94.43	43.61	0.00	94.55	21.68	29.63	38.10	0.00	20.1
28	Catch	267		1,331	31	348	32	11	34	2,19
	Sample	198	47	0	14	67	0	1	0	32
	4	74,16	33.57	0.00	45.16	19.25	0.00	9.09	0.00	14.9
29	Catch	209	84	415	15	113	42	3	31	91
	Sample	95	22	0	4	27	6	3	0	15
	4	45.45	26.19	0.00	26.67	23.89	14,29	100.00	0.00	17.2
30	Catch	171	454	7	20	195	96	27	4	97
	Sample %	58 33,92	175 38.55	0 0.00	24 120.00	155 79.49	48 50,00	0 0.00	0 0,00	46 47.2
	•	33.92	30.33	0.00	120.00	/9.49	50,00	0.00	0.00	4/.2
31	Catch	165		194	6	91	36		1	61
	Sample	80	54 45.00	0	2	69	12		0 0.00	21
	4	48.48	45.00	0.00	33.33	75.82	33,33		0.00	35.4
32	Catch	67	112	3	21	52	63	3		32
	Sample %	32 47.76	65 58,04	0 0.00	4 19.05	6 11.54	12 19.05	1 33.33		12 37.3
~~	Control of	s nr				165	49	•	2	
33	Catch Sample	26 47	46 22			34	49 53	1 0	2	28 15
	₽ 29110TE	180.77	47.83	:		20.61	108.16	-	0.00	
24	Catch	18	109			35				16
37	Sample	7				34				
	4	38.89				97.14				36.4
35	Catch	14	103		7	15	14			15
	Sample	14	26		O	12	26			-7
	ŧ	100.00	25.24		0.00	80.00	185.71			50.9
36	Catch	5	88		3	33		1		13
	Sample	9	28		0	4		0		4
	4	180.00	31.82		0.00	12.12		0.00		31.5
37	Catch	16	121		6	16	20			17
	Sample	8	56		0	5	8			
	4	50.00	46.28		0.00	31.25	40.00			43.0
38	Catch	12	16		1	15	8			5
	Sample	17	3		0	3	11			
	4	141.67	18.75		0.00	20,00	137.50			65.3
39	Catch		10		2	7			1	:
	Sample		0		0	3			0	
	4		0.00		0,00	42.86			0.00	15.0
	Catch	2,238	2,107	6,039	682	3,480	670	316	348	15,88
local	Sample	2,238	882	6,039 94	457	3,480	301	29	348	4,37
	4	62.69	41.86	1,56	67.01	34.43	44.93	9.18	2.59	27.5

Table 7. Chinook salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1990.

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						Di	strict					
Stat Week	-	101	106	107	108	111	115	182	183	185	192	Tota
	Catch Sample §								7 0 0.00			0.0
	Catch Sample §	1,218 261 21,43	792 352 44.44		4 0 0.00	3 2 66.67	17 13 76.47	1 0 0.00	62 0 0.00			2,09 62 29.9
	Catch Sample ŧ	1,290 879 68.14	2,082 1,185 56.92		4 0 0.00	18 15 83.33	47 1 2.13	2 0 0.00	61 0 0.00			3,50 2,08 59.3
	Catch Sample †	1,397 996 71.30	2,718 1,050 38.63	6 0 0.00	49 71 144.90	36 6 16.67	48 23 47.92	2 0 0.00	98 0 0.00			4,35 2,14 49.2
28	Catch Sample %	1,248 783 62.74	3,787 1,823 48.14		220 25 11.36	483 81 16.77	88 0.00	21 0 .00	691 0 0.00			6,53 2,71 41.4
29	Catch Sample %	1,500 631 42.07	4,639 1,784 38.46	1 0 0.00	41 17 41.46	645 88 13.64	7 10 142.86	21 0 0.00	941 0 0.00			7,79 2,53 32.4
30	Catch Sample %	1,712 650 37.97	7,837 2,999 38.27		73 82 112.33	1,205 340 28.22	227 122 53.74	8 0 0.00	57 0 0.00			11,11 4,19 37.7
31	Catch Sample %	2,455 1,122 45.70	13,287 5,504 41.42	2 0 0.00	216 22 10.19	1,350 202 14.96	644 162 25.16	118 0 0.00	117 0 0.00			18,18 7,01 38.5
32	Catch Sample	5,001 1,374 27.47	12,468 3,820 30.64	8 0 0.00	593 317 53.46	3,000 347 11.57	1,223 433 35.40	427 0 0.00	193 0 0.00			22,91 6,29 27.4
33	Catch Sample ¥	3,803 1,752 46.07	11,015 3,654 33.17	34 0 0.00	293 103 35.15	7,090 2,448 34.53	2,643 654 24.74	2,154 0 0.00	584 0 0.00			27,61 8,61 31.1
34	Catch Sample ¥	6,171 2,089 33.85	24,370 7,983 32.76		278 38 13.67	9,863 1,991 20.19		5,177 0 0.00	1,864 0 0.00	526 0 0.00	3,349 0 0.00	
35	Catch Sample ¥	6,537 2,932 44.85	33,311 5,713 17.15		1,692 242 14.30	10,629 3,425 32.22	12,644 2,976 23.54	16,171 0 0.00	3,657 0 0.00	1,768 0 0.00	17,544 0 0.00	103,99 15,28 14.7
36	Catch Sample ¥	9,047 4,496 49.70	28,301 5,711 20.18		2,576 264 10.25	14,226 2,390 16.80	15,782 4,921 31.18	15,133 0 0.00	4,823 0 0.00	3,810 0 0.00	18,770 0 0.00	112,40 17,78 15.8
37	Catch Sample ¥	9,931 4,873 49.07	16,381 3,064 18.70		1,258 16 1.27	9,886 1,441 14.58	19,488 4,579 23.50	15,427 0 0.00	4,892 0 0.00	2,138 0 0.00		86,10 13,97 16.2
38	Catch Sample %	18,380 9,276 50.47	5,606 673 12.00		579 57 9.84	7,673 1,084 14.13	10,021 1,828 18.24	9,292 0 0.00	2,038 0 0.00	1,321 0 0.00		57,19 12,91 22.0
39	Catch Sample ¥		578 0 0.00		342 0 0.00	1,203 493 40.98		2,273 0 0.00	1,672 0 0.00	30 0 0.00	55 0 0.00	6,19 49 8.0
40	Catch Sample %			2,113 0 0.00				2,373 0 0.00	10 0 0.00	130 0 0.00		4,63 0.0
<b>fotal</b>	Catch Sample		167,172 45,315		8,218 1,254	67,310 14,353	62,879 15,722	68,600 0	21,767 0	9,723 0	48,730 0	526,2 108,7

Table 8. Coho salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1990.

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						Dis	trict					
Stat Week		101	106	107	108	111	115	182	183	185	192	Tota
24	Catch Sample											
25	Catch Sample %	5,130 2,015 39.28	750 389 51.87		29 22 75.86	311 67 21.54	1,352 601 44.45	2 0 0.00	171 0 0.00			7,74 3,09 39.9
26	Catch Sample %	8,146 3,438 42.20	1,773 978 55.16	10 1 10.00	106 60 56.60	3,850 553 14.36	4,885 1,382 28,29	5 0 0.00	40 0 0.00			18,81 6,41 34.0
27	Catch Sample §	10,283 5,349 52.02	5,910 2,079 35,18	23 0 0.00	620 612 98.71	17,565 5,752 32.75	26,922 7,238 26.89	7 0 0.00	26 0 0.00			61,35 21,03 34.2
28	Catch Sample %	11,174 5,492 49.15	9,264 4,185 45,17	61 0 0.00	1,440 749 52.01	29,991 10,370 34.58	25,404 7,504 29,54	8 0 0.00	6 0 0,00			77,34 28,30 36,5
29	Catch Sample §	19,974 9,649 48.31	7,938 3,757 47.33	203 0 0.00	2,353 1,039 44.16	27,761 9,825 35.39	3,854 1,000 25,95	106 0 0.00	54 0 0.00			62,24 25,27 40.0
30	Catch Sample %	22,350 10,867 48.62	12,639 4,992 39.50	78 0 0.00	2,915 2,356 80.82	17,716 7,981 45.05	10,523 3,088 29,35	87 0 0,00	4 0 0.00			66,3 29,2 44.3
31	Catch Sample %	14,071 4,117 29.26	6,490 3,021 46.55	334 0 0.00	741 219 29.55	6,560 526 8.02	11,332 3,341 29.48	273 0 0.00	19 0 0.00			39,8 11,2 28.1
32	Catch Sample %	15,044 4,174 27.75	7,099 2,332 32.85	243 0 0.00	533 293 54.97	4,209 344 8.17	8,851 1,918 21.67	325 0 0.00	8 0 0.00			36,3 9,0 24,
33	Catch Sample %	6,837 4,003 58.55	3,925 1,169 29.78	155 0 0.00	116 40 34.48	4,297 1,509 35.12	10,342 2,305 22.29	1,551 0 0.00	49 0 0.00			27,2 9,0 33.
34	Catch Sample %	11,902 2,381 20.01	4,988 1,316 26.38		40 9 22.50	8,853 1,844 20.83		740 0 0.00	8 0 0,00		2 0 0.00	26,5 5,5 20.
35	Catch Sample %	17,098 5,232 30.60	6,582 1,184 17.99		109 26 23.85	8,292 2,679 32,31	28,296 4,015 14.19	1,360 0 0.00	3 0 0.00		1 0 0.00	61,7 13,1 21.
36	Catch Sample	20,503 5,491 26.78	3,467 657 18.95		164 6 3.66	8,447 1,231 14.57	29,413 1,579 5.37	313 0 0.00	2 0 0.00	1 0 0.00		62,3 8,9 14.
37	Catch Sample %	40,440 13,341 32.99	1,469 396 26.96		74 5 6.76	6,079 953 15.68	39,744 4,323 10.88	387 0 0.00				88,1 19,0 21.
38	Catch Sample	48,797 11,257 23.07	796 104 13.07		63 0 0.00	1,526 228 14.94	9,358 1,663 17.77	232 0 0.00	2 0 0.00			60,7 13,2 21.
39	Catch Sample ¥		148 0 0.00		83 0 0.00	73 36 49.32		11 0 0.00				3 11.
40	Catch Sample %			2 0 0.00				2 0 0.00				0.
otal	. Catch Sample	251,749 86,806	26,559	1,109	5,436		39,957	5,409 0	400 0	1 0	0	697,1 202,6 29.
Fotal						43,898	39,957					0

# Table 9. Chum salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1990.

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						Dis	trict					
Stat Week		101	106	107	108	111	115	182	183	185	192	Total
24	Catch Sample			-				9,440	6,182 25			15,62
	+							0.00	0.40			0.1
25	Catch	7,072	5,037		375	3,287	5,826	14,964	9,734			46,29
	Sample %	3,166 44.77	1,748 34.70		128 34.13	0.00	0.00	0.00	0.00			5,04
	•		-			-		•	-			
26	Catch Sample	8,331 4,472	6,294 3,590	8 1	467 242	8,370 0	6,735 0	17,099 0	14,583 0			61,88 8,30
	4	53.68	57.04	12.50	51.82	0.00	0.00	0.00	0.00			13.4
27	Catch	10,086	12,722	1	1,573	11,100	21,323	19,095	6,807			82,70
	Sample t	4,675 46.35	4,337 34.09	0 0.00	1,287 81.82	0 0.00	0 0.00	0 0.00	0 0.00			10,29
29	Catch	14,197	25,546	2	2,823	18,704	14,584	12,846	9,038			
20	Sample	5,834	13,160	0	952	297	· 0	· 0	0			97,74 20,24
	+	41.09	51.51	0.00	33.72	1.59	0.00	0.00	0.00			20.7
29	Catch Sample	12,408 5,809	27,033 9,010	17 0	2,068 766	25,381 0	17,975 0	31,591 0	15,482 0			131,955
	\$	46.82	33.33	0.00	37.04	0.00	0.00	0.00	0.00			15,58
30	Catch	20,664	50,881		2,816	26,245	56,189	40,001	2,129			198,925
	Sample	8,426	18,404		485	· 0	. 0	0	0			27, 31
	+	40.78	36.17		17.22	0.00	0.00	0.00	0.00			13.7
31	Catch Sample	16,883 5,640	27,189 9,959	1	906 297	6,724 0	44,360 0	63,928 0	1,041			161,033 15,89
	\$	33.41	36.63	0.00	32.78	0.00	0.00	0.00	0.00			9.8
32	Catch	17,063	14,502	1	306	12,585	64,007	24,006	1,308			133,77
	Sample	4,370 25.61	4,387 30.25	0 0.00	142 46.41	43 0.34	, 0 0.00	0.00	. 0 0.00			8,94
	-											
33	Catch Sample	11,835 7,185	9,358 2,489	2 0	172 15	9,234 0	<b>66,84</b> 1 0	28,909 0	1,023 0			127,37 9,68
	+	60.71	26.60	0.00	8.72	0.00	0.00	0.00	0.00			7.6
34	Catch	7,891	4,709		15	3,976		8,062	169	106	11	24,93
	Sample *	3,328 42.17	1,231 26.14		9 60.00	0 0.00		0 0.00	0 0.00	0 0.00	0 0.00	4,56 18.3
	-		-		-							-
35	Catch Sample	2,358 1,332	2,157 452		39 3	704 0	34,835 0	5,846 0	18 0	3 0	18 0	45,97 1,78
	+	56.49	20.96		7.69	0.00	0.00	0.00	0.00	0.00	0.00	3.8
36	Catch	812	332		18	390	17,566	783	3	2	9	19,91
	Sample %	514 63.30	61 18.37		0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	57 2.8
37	Catch	110	41		2	136	6,241	288	4	1		6,82
57	Sample	89	12		1	0	0	0	0	0		10
	4	80.91	29.27		50.00	0.00	0.00	0.00	0.00	0.00		1.4
38	Catch	38	7			47 0	482	72 0	1 0			64 2
	Sample %	23 60.53	3 42.86			0.00	0 0.00	0.00	0.00			4.0
39	Catch					1			2			
	Sample					0			0			
	4					0.00			0,00			0.0
40	Catch Sample \$											
Total	Catch		185,808					276,930		112		1,155,62
	Sample \$	54,863 42.28	68,843 37.05	1 3.13	•	340 0,27		0 0.00	25 0.04	0 0.00	0 0.00	128,39 11.1

Table 10. Sockeye salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1990.

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	Statistical Week									
District	27	28	29	30	34	35				
101	92	56	56	60						
102	124	120	160	120						
103	110	134	76	82						
104	145	135	79	33						
105	34									
106		6		18						
109	51	84	33	42	8					
110		70								
113	316	222	305	210	342					
114	50	28	30	19						
116			40	10						
154	60	1	30	50						
157	183	190	216	65						
171	70	280	60	154	50					
172	89	213				69				
174	55	35								

Table 11. Chinook salmon scale, age, sex, and size sampling survey for the Southeast Alaska commercial summer troll fisheries, 1990.

	Statistical Week													
- District	27	28	29	30	31	32	33	34	35	36	37			
101		100	60				130		20		133			
102		30	65 /					130		130				
103			150				80							
104		110	190	20		60	220							
105							40							
109		80	80			110	80			80	80			
113		150	204		60	210	200	20		30	30			
114	18			20	40	60			35	40	60			
116			20			40	50		30	20				
171		62	40		20	20	20		30	180	170			
172		60				80	40	208	210					

Table 12.	Coho salmon scale, age, sex, and size sampling survey for the
	Southeast Alaska commercial troll fisheries, 1990.

	3			Statisti	ical Week			
 District	28	29	30	31	32	33	34	35
102						5		
104					240	40		37
112	10							
113		16			10			
114					14			

Table 13.	Chinook salmon scale, age, sex, and size sampling survey for
	the Southeast Alaska commercial purse seine fisheries, 1990.

	Statistical Week												
- District	27	28	29	30	31	32	33	34	35	36	37		
101			13	25	99	·	45	60					
102				10					50				
103							40		60				
104	40	35			10	80	40	112	10				
105							40		14				
109						120	96						
110						13							
112		55		50			90	80	60				
113					66	80	140						
114						40	19				7		

Table 14.	Coho salmon scale, age, sex, and size sampling survey for the
	Southeast Alaska commercial purse seine fisheries, 1990.

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	Statistical Week												
District	27	28	29	30	31	32	33	34	35	36	37		
101	248	91	314	494	89	285	97	211	329				
102			80			111	192	29	274				
103					51			76					
104	302	305	300	112	330	322	300	300	320				
107								40					
109					100	140	200	100					
110				100									
112	380	380	460	453	120	253	120	120	119				
113			133		413		70						
114	152		240			183	240	280			220		

Table 15. Chum salmon scale, age, sex, and size sampling survey for the Southeast Alaska commercial purse seine fisheries, 1990

	Statistical Week												
- District	27	28	29	30	31	32	33	34	35				
101	52	48	152	297	546	525	408	107	156				
102		40	368	80			120	<b>F</b> 4					
103							215	51	147				
104	720	750	840	821	720	1,695	1,469	734	760				
109				56	180	165							
110		100	100	100		100							
112		35		180	320	274	289	260	106				
113			461	186	99	48							
114	40		40			40	40	320					

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Table 16. Sockeye salmon scale, age, sex, and size sampling survey for the Southeast Alaska commercial purse seine fisheries, 1990.
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	Statistical Week												
- District	25	26	27	28	29	30	31	32	33	34	35		
101 106	179 20	6	76	30	14	12 20	8 11	2	12	2	1		
111 115	3	20	22 8	2		17							

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Table 17. Chinook salmon scale, age, sex, and size sampling survey for the Southeast Alaska commercial gill net fisheries, 1990.

	Statistical Week												
- District	25	26	27	28	29	30	31	32	33	34	35	36	37
101 106 108	13	40	14		40	74 40	80 40	74 160	80 280 82	60	50	10	
111 115			10			57	60	15	40	130	100 40	100 100	100
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Table 18.	Coho salmon scale, age, sex, and size sampling survey for the
	Southeast Alaska commercial gill net fisheries, 1990.

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		Statistical Week											
- District	25	26	27	28	29	30	31	32	33	34	35	36	37
101	291	312	113	320	201	200	200	200	200 300	200	200	200	400
106 108	80	160	300 94	280	300	302 220	300 55	300	300	300	300		
111			200	240	240	160			210	200	300		
115	162	240	320	240	240	265	320	320	198		300	240	300

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Table 19. Chum salmon scale, age, sex, and size sampling survey for the Southeast Alaska commercial gillnet fisheries, 1990.

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		Statistical Week										
- District	25	26	27	28	29	30	31	32	33	34	35	36
101	600	600	600	318	661	600	600	825	600	606	448	171
106-30	480	620	400	589	630	700	710	710	730	765	250	
106-41	688	742	723	700	680	840	686	760	714	723	43	
108	246	163	480	440	470	640	240	175	25			
111	480	777	747	765	746	735	443	720	715	700		
115	620	721	720	480	720	920	880	860	960		920	720

Table 20. Sockeye salmon scale, age, sex, and size sampling survey for the Southeast Alaska commercial gill net fisheries, 1990.

Stat. Week	101	102	103	104	105	106	109	110	112	113	114
27				65.8% (2000)					67.9% (449)		68.5% (400)
28		69.5% (200)		67.7% (711)				70.1% (400)	65.4% (1635)	<b>49.7</b> % (600)	
29		69.6% (270)		62.6% (1674)				67.3% (400)	70.0% (858)		
30	53.1% (800)	68.5% (964)					87.8% (400)	61.0% (808)	62.3% (1604)		
31	57.4% (800)	55.0% (200)	62.5% (291)	54.3% (2788)	60.5% (200)		51.5% (1508)		55.6% (1868)	58.8% (816)	
32	50.0% (1153)	47.2% (400)		<b>43.6</b> % (1538)			47.3% (1600)	45.4% (1219)	49.0% (400)		
33	42.6% (800)	46.0% (400)	48.5% (800)	42.9% (2772)	48.3% (400)	63.0% (200)	53.2% (600)		45.0% (1221)		
34	39.0% (400)	36.0% (200)		41.2% (1193)	40.5% (200)	42.3% (400)	33.8% (400)		39.1% (841)		
35	37.2% (372)	39.3% (1230)		41.8% (400)	·						

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Table 21. Sex composition, in percent males, of pink salmon sampled from select purse seine fisheries, 1990.

Chinook CPU Coho Coho CPUE 28 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 33 Interviews Boat Days Chinook CPU Coho CPUE			Sampling	j Area			
Boat Days Chinook CPU Coho Coho CPUE 28 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho S Coho CPUE 33 Interviews Boat Days Chinook CPU Coho S Coho CPUE	1	2	3	4	5	6	Total
Chinook CPU Coho CPUE 28 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho S Coho CPUE 33 Interviews Boat Days Chinook CPU Coho S Coho CPUE	18	89	39	27	29	29	231
Chinook CPU Coho Coho CPUE 28 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 33 Interviews Boat Days Chinook CPU Coho CPUE	63	255	94	40	64.5	72.5	589
Coho <sup>f</sup> Coho CPUE 28 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 33 Interviews Boat Days Chinook CPU Coho CPUE	,609	5,061	1,083	174	843	1,803	10,573
Coho CPUE 28 Interviews Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 33 Interviews Boat Days Chinook CPU Coho CPUE 34 Interviews Boat Days Chinook CPU Coho CPUE 35 Interviews Boat Days Chinook CPU Coho CPUE 36 Interviews Coho CPUE 37 Interviews Boat Days Chinook CPU Coho CPUE 38 Interviews Chinook CPU Coho CPUE 39 Interviews Chinook CPU Coho CPUE 30 Interviews Chinook CPU Coho CPUE	25.5	19.8	11.5	4.3	13.1	24.9	18
Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	214 3.4	3,342 13.1	3,079 <sup>*</sup> 32.8	85 2.1	499 7.7	3,981 54.9	11,200 19
Boat Days Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook CPU Coho CPUE 30 Interviews Boat Days Coho CPUE 30 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	22	: 00	·	39	40	26	001
Chinook 3 Chinook CPU Coho 2 Coho CPUE 29 Interviews Boat Days Chinook 1 Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 33 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE	23 98.5	80 284.5	23 57.5	52	40 72.5	26 110	231 675
Chinook CPU Coho CPUE 29 Interviews Boat Days Chinook 1 Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	,270	3,545	339	324	686	2,566	10,730
Coho CPUE 29 Interviews Boat Days Chinook 11 Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho S Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	33.2	12.5	5.9	6.2	9.5	23.3	15.9
<ul> <li>29 Interviews Boat Days Chinook 11 Chinook CPU Coho 3 Coho CPUE</li> <li>30 Interviews Boat Days 2 Chinook CPU Coho 11 Coho CPUE</li> <li>31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE</li> <li>32 Interviews Boat Days Chinook CPU Coho CPUE</li> <li>33 Interviews Boat Days Chinook CPU Coho CPUE</li> </ul>	,262	5,297	3,775	105	1,807	6,340	19,586
Boat Days Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 25 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho 25 Coho CPUE	23	18.6	65.7	2	24.9	57.6	29
Chinook 1 Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	10	65	44	37	39	27	222
Chinook CPU Coho 3 Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	79.5	226.5	119.5	45	90.5	110.5	671.5
Coho CPUE 30 Interviews Boat Days 2 Chinook 25 Chinook CPU Coho CPUE 31 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	,402	1,710	498	344	811	1,852	6,617
Coho CPUE 30 Interviews Boat Days 2 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho CPUE	17.6	7.5 8,581	4.2	7.6 177	9	16.8	9.9
Boat Days 2 Chinook 5 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho cPUE	,315 41.7	37.9	9,232 77.3	3.9	3,119 34.5	4,180 37.8	28,604 42.6
Boat Days 2 Chinook 5 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook CPU Coho cPUE	36	60	20	26	27	18	187
Chinook 5 Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho CPUE	10.5	224	52	31.5	54.5	58	630.5
Chinook CPU Coho 11 Coho CPUE 31 Interviews Boat Days Chinook Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	,440	2,490	75	128	480	549	9,162
Coho CPUE 31 Interviews Boat Days Chinook Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	25.8	11.1	1.4	4.1	8.8	9.5	14.5
<ul> <li>31 Interviews Boat Days Chinook Chinook CPU Coho CPUE</li> <li>32 Interviews Boat Days Chinook Chinook CPU Coho</li> </ul>	,868	8,924	4,183	455	1,536	2,366	29,332
Boat Days Chinook Chinook CPU Coho 5 Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	56.4	39.8	80.4	14.4	28.2	40.8	46.5
Chinook Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	11	68	19	52	34	7	191
Chinook CPU Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	56	294.5	47	57.5	96.5	32	583.5
Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	0	0	0	0	0	0	0
Coho CPUE 32 Interviews Boat Days Chinook Chinook CPU Coho	,153	23,184	2,753	1,099	6,959	1,413	40,561
Boat Days Chinook Chinook CPU Coho	92	78.7	58.6	19.1	72.1	44.2	69.5
Boat Days Chinook Chinook CPU Coho	2	31	9	74	12	4	132
Chinook CPU Coho	8	130	31	92.5	32	16	309.5
Coho	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
Cono CPUE 1	843	8,906	1,964	2,937	1,804	357	16,811
	05.4	68.5	63.5	31.8	56.4	22.3	54.3
33 Interviews	15	60	18	35	25	16	169
Boat Days	74	302.5	63	74.5	102.5	64	680.5
Chinook Chinook CPU	0 0	0	0	0	0	0	0
	,627	21,894	4,768	2,934	7,075	2,267	46,565
	.03.1	72.4	75.7	39.4	69	35.4	68.4

Table 22. Troll fishery performance data for 1990.

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				Sampli	ing Area			
Stat. Week	-	1	2	3	4	5	6	Total
34	Interviews Boat Days	6 10	44 80.5	0	60 75	12 19	8	130 198.5
	Chinook	82	931	0	253	161	191	1,618
	Chinook CPU Coho Coho CPUE	8.2 543 54.3	11.6 5,086 63.2	0 0 0	3.4 2,488 33.2	8.5 846 44.5	13.6 525 37.5	8.2 9,488 47.8
35	Interviews	29	23	0	68	11.5	27	166
55	Boat Days Chinook	89 0	72.5 32	0	133 0	47.5 0	98 0	440 32
	Chinook CPU Coho	0 8,858	0.4 4,886	0	0 4,311	0 2,328	0 4,031	0.1 24,414
	Coho CPUE	99.5	67.4	0	32.4	2,328 49	41.1	55.5
36	Interviews Boat Days	13 38	5 8	1 3	54 122.5	6 15	23 80	102 266.5
	Chinook Chinook CPU	0	0	0	0	0	0	0
	Coho Coho CPUE	3,010 79.2	313 39.1	159 53	2,688 21.9	539 35.9	3,692 46.2	10,401 39
37	Boat Days	15 54.5	13 35.5	1 1	63 188	9 31.5	13 51.9	114 362.4
	Chinook Chinook CPU Coho	0 0 2,415	0 0 1,459	0 0 14	0 0 4,434	0 0 1,249	0 0 2,320	0 0 11,891
	Coho CPUE	44.3	41.1	14	23.6	39.7	44.7	32.8
38	Interviews Boat Days	6 8	2 3.5	0	17 48	2 3	20 89	47 151.5
	Chinook Chinook CPU Coho	0 0 251	0 0 110	0 0 0	0 0 1,069	0 0 168	0 0 4,152	0 0 5,750
	Coho CPUE	31.4	31.4	0	22.3	56	46.7	38

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Table 22. Troll fishery performance data for 1990 (continued).

APPENDICES

#### Appendix A: Listing of Project Supported Reports

The following is a list of ADF&G, Division of Commercial Fisheries publications in which the data collection and/or analysis and reporting was partially or fully supported by this Federal Aid Southeast Port Sampling Project.

#### 1988 REGIONAL INFORMATION REPORTS

Number	Title	<u>Date</u>		Author
1J88 - 23	Data: Abundance, Age, Sex, And Size Of Sockeye Salmon Catches And Escape- ments In S.E. Alaska In 1987 (U.S./Can)	Sept.	. 1988	McPherson
1J88 - 26	Migratory Timing And Escapement Of Taku River Salmon Stocks in 1987 (U.S./Can)	Sept.	. 1988	McGregor
1J88 - 27	Winter Troll Fishery Sampling, 1987 (U.S./Can)	Sept	1988	Van Alen
1J88 - 29	Sockeye Salmon Micro-Wire Tagging Studies, 1987 (U.S./Can)	Sept	. 1988	Bergander
1J88 - 32	Summary Of The 1988 Purse Seine Skipper Questionnaires On Chinook Mortality (non-contract U.S./Can)	Nov.	1988	Rowse
1J88 - 43	Fishery Contributions, Escapements, Harvest Rates, Migratory Patterns And Survival Rates of Wild Coho Salmon Stocks In S.E. Alaska Based On Coded- Wire Tagging Studies, 1987 - 1988. Fed. Aid. Contract No. NA-87-ABD-00301	Dec.	1988	Shaul
1J88 - 46	Southeast Alaska Port Sampling Project, 1988. Report For The Period July 1, 1987 to June 30, 1988. Fed. Aid Contract No. NA-87-ABD-00301	Dec.	1988	Van Alen
	1989 REGIONAL INFORMATION REPORT	'S		
1J89 - 09	Data And Programs For The Trans- boundary Stikine, Taku and Alsek Rivers Needed To Implement The Pacific Salmon Treaty	Apr	1989	Marshall

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1J89 - 16 S.E. Alaska Troll Fishery June 1989 Davis Performance Monitoring, 1988 (U.S./Can and Fed. Aid)

1J89 - 17	Fishing Effort, Harvest, And Hatchery Contributions Of Chinook Salmon In Experimental Troll Fisheries During June 1988	Mar	1989	Pahlke
1J89 - 18	Contrib., Exploitation, And Migratory Timing Of Returns Of Sockeye Salmon To The Lynn Canal In 1987 Based On Analysis Of Scale Patterns.	Dec	1989	McPherson
1J89 - 25	Fishery Contrib., Escapements, Harvest Rates, Migratory Patterns, And Survival Rates Of Wild Coho Salmon Stocks In S.E. Alaska Based On Coded-Wire Tagging Studies, 1988 - 1989. (Fed. Aid)	Dec.	1989	Shaul
1J89 - 26	S.E. Alaska Port Sampling Project Annual Report For The Period July 1, 1988 to June 30, 1989. (Fed. Aid)	Dec.	1989	Oliver
1 <i>3</i> 89 - 36	Data: Abundance, Age, Sex, and Size of Coho Salmon Catches and Escape- ments in S.E. Alaska, 1986 (U.S./Can. and Fed. Aid)	Sept	1989	Van Alen
1J89 - 37	Portland Canal Juvenile Chum Salmon Coded Wire Tagging Project, 1988 (U.S./Can.)	Aug	1989	Koerner
1J89 - 39	Winter Troll Fishery, 1988 (U.S./Can.)	Sept	1989	Van Alen
1J89 - 43	Taku River and Port Snettisham Sockeye Salmon Stock Proportions In 1988 S.E. Alaska and Canadian Fisheries (U.S./Can.)	Şept	1989	Mc Gregor
1J89 - 44	Stock Compositions of Sockeye Salmon Catches In S.E. Alaska's Dist. 106 And In The Stikine River, 1988, Estimated With Scale Pattern Analysis (U.S./Can.)	Sept	1989	Jensen
1J89 - 45	Contrib. Of Alaska, Canadian, and Transboundary Sockeye Stocks To Catches In S.E. Alaska Purse Seine and Gill Net Fisheries, Dist. 101 - 108, 1988, Based On Analysis Of Scale Patterns (U.S./Can.)	Sept	1989	Oliver
1J90 - 13	Data: Abundance, Age, Sex, And Size Of Salmon Returns To The Yakutat Area In 1988	July		Rowse

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1J90 - 14	Maturity Estimates Of Chinook Salmon Catch In June Fisheries In S.E. Alaska, 1989	July	Pahlke
1J90 - 18	Fishery Contrib., Escape., Harvest Rates, Migratory Patterns, And Survival Rates Of Wild Coho Salmon Stocks In S.E. Alaska Based On Coded-Wire Tagging Studies, 1989-1990 (Fed. Aid)	Sept.	Shaul
1J90 - 23	Stock Compositions of Sockeye Salmon Catches In S.E. Alaska's Districts 106 & 108 And In The Stikine River, 1989, Estimated With Scale Pattern Analysis (U.S./Can. and Fed. Aid)	Sept.	Lynch
1J90 - 24	Portland Canal Juvenile Chum Salmon Coded Wire Tagging Project, 1989 (U.S./Can.)	Sept.	Koerner
1J90 - 25	S.E. Alaska Troll Fishery Perfor- mance, Monitoring, 1989 (U.S./Can. and Fed. Aid)	Sept.	Davis
1J90 - 26	Stock Compositions Of Sockeye Salmon Catches In S.E. Alaska's Dist. 111 And The Taku River, 1989, Estimated With Scale Pattern Analysis (U.S./Can.)	Sept.	Jensen
1J90 - 27	Chinook Salmon Stock Assessment In S.E. Alaska, 1989 (U.S./Can)	Sept.	Pahlke
1J90 - 29	Contribution Of Alaskan And Canadian Sockeye Stocks To Catches In S.E. Alaska Purse Seine And Gill Net Fisheries, Dist. 101-108, 1989, Based On Analyses Of Scale Patterns (U.S./Can.)	Sept.	Oliver
1J90 - 32	Data: Abundance, Age, Sex, And Size Of Sockeye Salmon Catches and Escapements In S.E. Alaska, 1988	Nov.	McPherson
1J90 - 34	S.E. Alaska Port Sampling Project Annual Report For The Period July 1 To June 30, 1990 (Fed. Aid)	Dec.	Oliver
1J91-06	Data: Abundance, Age, Sex And Size Of Coho Salmon Catches Of Coho Salmon Catches And Escapements In S.E. Alaska, 1987	Mar.	Wood

1J91-15 Data: Abundance, Age, Sex, and Size May Rowse of Sockeye Salmon Catches and Escapements in Southeast Alaska in 1989

#### TECHNICAL FISHERY REPORTS

- No. 88-08 Abundance, age, sex, and size of sockeye salmon catches and escapements in Southeast Alaska in 1986. By Scott A. McPherson, Andrew J. McGregor, and Fred E. Bergander. June 1988. 42 pp.
- No. 88-12 Abundamce, age, sex, and size of sockeye salmon catches and escapements in Southeast Alaska in 1987. By Scott A. McPherson, Andrew J. McGregor, and Mark A. Olsen. September 1988. 57 pp.
- No. 88-13 Stock compositions of sockeye salmon catches in Southeast Alaska's Districts 106 and 108 and in the Stikine River, 1987, estimated with scale pattern analysis. By: Kathleen A. Jensen and Iris S. Frank. October 1988. 77 pp.
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