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PRINCE WILLIAM SOUND GENERAL DISTRICTS 1978 BROOD YEAR PINK (*Oncorhynchus gorbuscha*) AND CHUM SALMON (*O. keta*) AERIAL AND GROUND ESCAPEMENT SURVEYS AND PRE-EMERGENT FRY INDEX PROGRAM

By:
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1980

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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.

PRINCE WILLIAM SOUND GENERAL DISTRICTS 1978 BROOD YEAR PINK *(ONCORHYNCHUS GORBUSCHA)* AND CHUM SALMON *(O. KETA)* AERIAL AND GROUND ESCAPEMENT SURVEYS AND PRE-EMERGENT FRY INDEX PROGRAM

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PREFACE

This is the third of an annual series of data reports concerning Prince William Sound pink and chum salmon spawning escapement surveying and pre-emergent fry indexing programs.

The intent of the report is to consolidate all of the data resulting from the above programs for the convenience of department staff and resource users.

INTRODUCTION

This report is third in an annual series that presents data gathered on Prince William Sound, Alaska (Figure 1) pink salmon *(Oncorhynchus gorbuscha)* and chum salmon *(O. keta)* adult returns. The report will present for the 1978 brood year: (1) aerial and ground escapement estimates, and (2) pre-emergent fry indices. No egg deposition study was conducted as a result of budgetary reductions.

The aerial and ground escapement surveys are presented by district, stream number, name, and date. Pre-emergent salmon fry data are presented by stream name and number, date, and sample zone.

Aerial and ground escapement surveys have been conducted in Prince William Sound since the mid-1920's, while pre-emergent fry studies were initiated in the late 1950's. Since Alaska statehood these two programs have provided the basis for pink and chum salmon management in Prince William Sound.

METHODS AND MATERIALS

See Alaska Department of Fish and Game Technical Data Report No. 51 for methods and materials used for the programs presented in this report.

RESULTS

Aerial and Ground Salmon Escapement Surveys

Weekly estimates from both aerial and ground counts, cumulative weekly total counts, and calculated season totals by stream and district are shown in Appendix A for pink salmon and in Appendix B for chum salmon.

District summaries by week, cumulative weekly totals by district, and calculated season total for Prince William Sound is given at the end of the district summaries for both pink and and chum salmon.

Pink Salmon:

The estimated total spawning escapement of 1,055,610 pink salmon in 1978 is 29.7% below the desired upper escapement range of 1.5 million and 15.6% below the desired minimum range of 1.25 million pink salmon for Prince William Sound spawning streams. Pink salmon returns in general were well distributed in 1978 resulting in improvements in spawning escapements in all districts, except the Eastern District, over the parent year 1976. The Eastern District which was expected to produce the major share of the early and middle runs of pink salmon, as reflected by the parent year, produced below average returns in 1978. The estimated pink salmon escapement to the Eastern District was 66.6% of the minimum desired level.

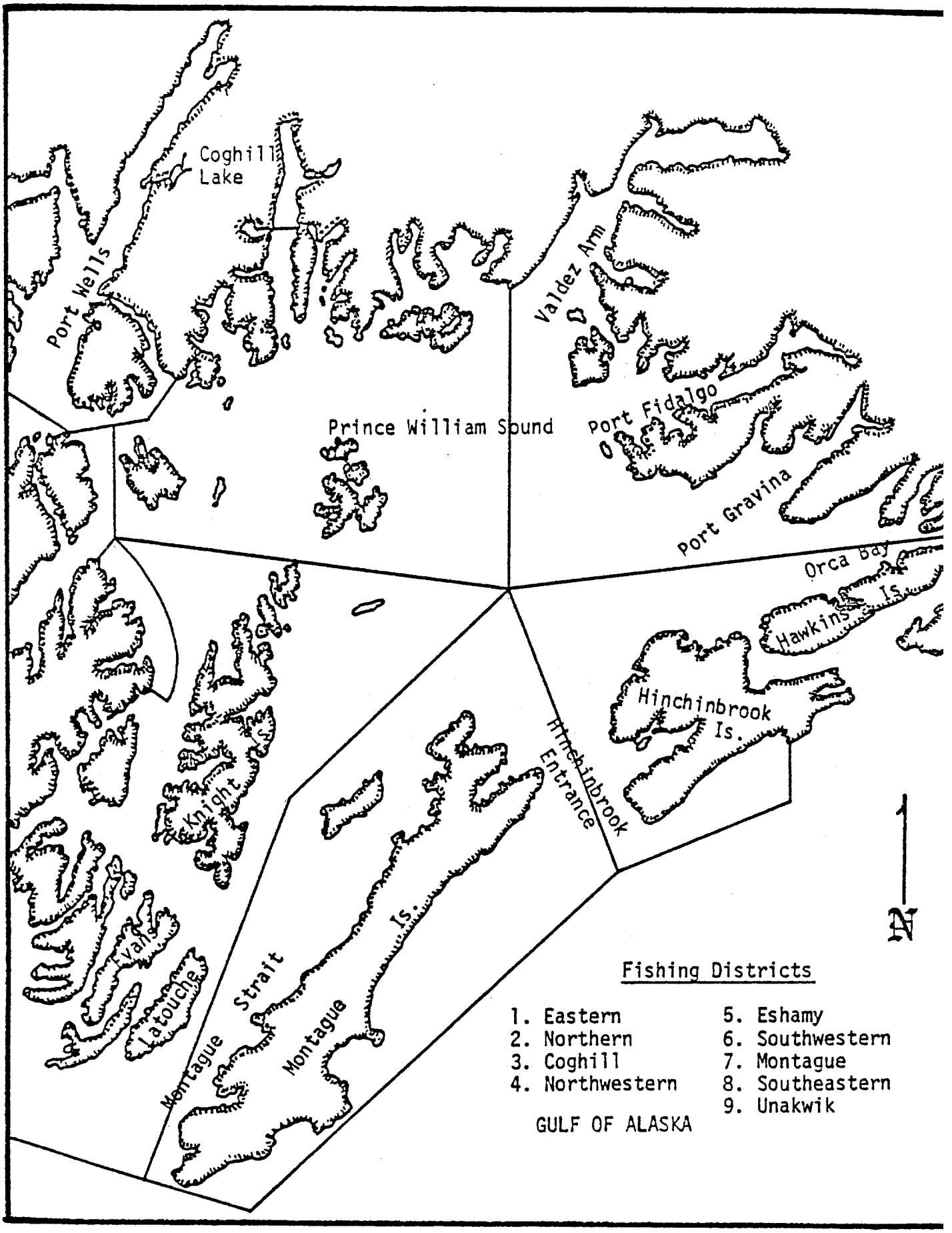

Figure 1. Prince William Sound Eshamy and General Districts commercial fisheries management areas.

This is the first time since the disastrous years of 1972 and 1974 that the Eastern District has fallen below the minimum desired escapement level.

The Montague District which had a record low escapement of 11.5% of the minimum level in 1976 apparently experienced excellent survival that year as the 1978 spawning escapement improved dramatically to 45.8% of the minimum level. The pink escapements, as in recent years, was primarily to streams at the north end of Montague Island.

The Northern District which has continued to produce strong on the even-year cycle, had an excellent pink salmon escapement near the upper desired level in 1978. The 1978 spawning escapement is a 26% improvement over the parent year 1976.

The Southwestern and Eshamy Districts were the most improved of all the streams in Prince William Sound as a result of complete commercial fishing closures in these districts in 1978. Since these districts are nearest entrance areas of Prince William Sound and remote from 1978 fishing sites there was little, if any, interception of pinks destined for the streams in the districts. This resulted in the largest spawning escapement ever obtained during Statehood.

Table 1 shows the 1978 Prince William Sound estimated pink salmon spawning escapement by district and comparisons with desired escapement ranges.

Appendix A shows the results of the 1978 aerial and ground escapement surveys.

Chum Salmon:

Chum salmon returns of about 650,000 fish were approximately 102% of the forecast point estimate of 640,000. This return indicated good survival from the parent brood year 1974 which had an escapement of 195,000. Considering the better than average return in 1978, the resulting spawning escapements ranged from excellent in the Eastern District to nothing in the Montague District. The 1978 chum escapement and returning runs were skewed to the northern and eastern portions of Prince William Sound which is very similar to the parent brood year 1974 escapements.

The chum salmon escapement distribution in 1978 shows that the northern and eastern streams of Prince William Sound produced about 96% of the returning fish. This distribution is similar to the parent brood year of 1974 which had 98% of the return produced in the northern and eastern mainland streams. Some improvement over the parent brood year escapements was realized in the Southwestern and Southeastern Districts. The Montague District which contributes about 57% of the desired escapement had no observed escapement for the second year in a row. The minimal escapement of 90 chum salmon observed in 1974 apparently did not produce any observable return.

Table 2 shows the 1978 Prince William Sound estimated chum salmon spawning escapement by district and comparisons with desired escapement ranges.

Table 1. Estimated pink salmon spawning escapement by district, Prince William Sound, 1978.

District	Pink Salmon Desired Range	Estimated Escapement	Percent of Minimum
Eastern	403,750 - 484,500	268,940	66.6
Northern	140,000 - 168,000	159,870	114.1
Northwestern & Coghill	262,500 - 315,000	200,950	76.5
Southwestern & Eshamy	112,500 - 135,000	220,340	195.8
Montague	106,250 - 127,500	48,680	45.8
Southeastern	225,000 - 270,000	156,830	69.7
TOTAL	1,250,000 - 1,500,000	1,055,610	84.4

Table 2. Estimated chum salmon spawning escapement by district, Prince William Sound, 1978.

District	Chum Salmon Desired Range	Estimated Escapement	Percent of Minimum
Eastern	87,200 - 109,000	102,290	117.3
Northern	29,400 - 36,750	25,410	86.4
Northwestern & Coghill	48,600 - 60,750	27,650	56.8
Southwestern & Eshamy	3,400 - 4,250	500	14.7
Montague	11,400 - 14,250	0	0.0
Southeastern	20,000 - 25,000	6,030	30.1
TOTAL	200,000 - 250,000	161,880	80.9

Appendix B shows the results of the 1978 aerial and ground escapement surveys.

Salmon Pre-emergent Fry Index

The 1978 brood year pre-emergent fry index program was initiated on 19 March and terminated on 5 April 1979. A total of 32 streams were sampled with 1,024 individual samples collected. The purpose of this program is to provide a pre-emergent fry abundance index for pink and chum salmon. This index, in turn, provides the basis for annual forecasts of adult returns to Prince William Sound.

Table 3 compares with the 1978 brood year pink salmon pre-emergent fry indices with even-year averages and chum salmon with all years averages. Only the years occurring after the 1964 earthquake are used.

Appendix C shows the program results for the 1978 brood year.

Pink Salmon:

Of the 32 streams indexed for brood year 1978 pink salmon pre-emergent fry 24 of them were above their even average fry per square meter, 6 were below, and 2 were virtually even with their average index.

It appears that the cold, clear weather the Sound experienced in February 1979 had a detrimental effect on fry production as an abnormally high number of dead fry were found in many streams. The mortalities were especially evident in the upstream zone. The streams that appeared to be hardest hit were Koppen Creek, Bainbridge Creek, Canoe Creek, and Bernard Creek. Pre-emergent fry mortalities appeared most severe in Bainbridge Creek where no live fry were found above the intertidal zone.

Despite this mortality overall pre-emergent fry production appeared good and indicates a fishable return for 1980.

Chum Salmon:

A total of 22 streams were indexed for chum salmon pre-emergent fry abundance. Of these 9 were above, 7 below, and 6 were virtually even with their respective average fry per square meter figures.

Streams that appeared to be the strongest were Koppen Creek, Control Creek, Sunny River, Duck River, Coghill River, Mill Creek, and Paulson Creek. These streams represent that entire spectrum of chum salmon return timing.

The pre-emergent fry indexed for brood year 1978 will form the basis for forecasting the 1982 return of 4-year-old adults.

Table 3. Comparison of even-year pink salmon and all years chum salmon live pre-emergent fry indices for brood years 1965 - 1977 with brood year 1978 live pre-emergent fry indices, in fry per square meter, Prince William Sound.

Stream Name and Number	PINK SALMON			CHUM SALMON		
	Total Live Fry Indexed[1]	Average[1]	Brood Year 1978[1]	Total Live Fry Indexed[1]	Average[1]	Brood Year 1978[1]
Humpy Creek, #11	18	3	0	---[2]	---	---
Koppen Creek, #35	1,058	176	334	708	59	216
Control Creek, #52	2,244	374	439	369	31	102
Whalen Creek, #80	225	37	129	21	2	0
Sunny River, #87	289	48	60	2,136	178	439
Gladhough Creek, #106	1,562	260	4	---[2]	---	---
Duck River, #116	3,315	552	1,058	3,125	260	401
Indian Creek, #117	2,883	480	754	2,138	178	114
Gregorieff Creek, #123	2,384	397	226	1,402	117	6
Gorge Creek, #131	3,190	532	228	1,471	123	40
Stellar Creek, #153	3,152	525	874	1,931	161	87
Eickelberg Creek, #221	786	131	74	61	5	39
Unakwik Creek, #265	1,386	231	307	50	4	0
Blackbear Creek, #276	1,982	330	761	1,137	95	192
Coghill River, #322	68	11	94	242	20	221
Mill Creek, #421	622	104	620	1,013	84	419
Meacham Creek, #430	1,698	283	404	353	29	26
Paulson Creek, #455	871	145	956	1,077	90	166
Mink Creek, #480	3,836	639	249	451	38	13
Erb Creek, #604	1,179	196	352	6	0	0
Totemoff Creek, #621	2,970	495	713	---[2]	---	---
Bainbridge Creek, #630	908	151	46	3	0	0
Claw Creek, #632	593	99	153	---[2]	---	---
Falls Creek, #673	1,360	227	260	---[2]	---	---
Hayden Creek, #677	232	39	194	---[2]	---	---
Wilby Creek, #744	167	28	33	---[2]	---	---
Cabin Creek, #747	502	84	263	---[2]	---	---
Shad Creek, #749	274	55	137	---[2]	---	---
Constantine Creek, #815	698	116	171	449	37	42
Cook Creek, #828	1,282	214	379	389	32	1
Canoe Creek, #850	1,696	283	775	157	13	0
Bernard Creek, #861	957	160	334	---[2]	---	---

[1] Rounded to the nearest whole fish.
[2] Chum salmon not present in this stream.

APPENDIX A

Pink salmon escapement estimates by stream and district, cumulative weekly totals by stream, and calculated season totals by stream and district.

A recapitulation by district, week, and season total estimated spawning escapement is given at the end of district totals.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978.

District: Eastern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2¢	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
2	Hartney Creek	0*	0*	0*	0*	0*	340*	680*	1370	680*	340*	170*	80*	0*	0*	3660	1460
5	Eccles Creek	0*	0*	0*	0*	0*	0*	0*	10	10*	0*	0*	0*	0*	0*	20	10
8	Fleming Creek	0*	0*	0*	0*	0*	0*	0	0*	0*	0*	0*	0*	0*	0*	0	0
11	Humpy Creek	0*	0*	0*	0*	0	50	150	70	150	130	200	100*	50*	0*	900	360
19	Twin Lakes Cr.	0*	0	0	0*	0	0	0	0	0	100	0	500	250*	0*	850	340
20	Spring Creek	0*	0	0	0*	0	0	0	0	0	0*	0	650	380*	190*	1220	490
21	Rogue Creek	0*	0	0	0*	0	50	50	0	20	50	0	0	0*	0*	170	70
23	Chase River	0*	0*	0*	0*	0	0	0	0	0	0*	0*	0	0*	0*	0	0
35	Koppen Creek	0*	0	0	5400	6000	12000	14000	11000	6500	3610	4500	3100	1550*	780*	68440	27380
36	Sheep River	40*	80*	150	530*	1200	2500	2500	3800	2500	2250*	2000	1100	550*	0*	19200	7680
37	Allen Creek	0*	0*	0	0*	0	0	0	0	150	670	500	450	230*	0*	2000	800
41	Pass Creek	0*	0*	0*	0*	0	0	0	0	500	2810	150	1000	500*	0*	4960	1980
45	Plateau Creek	0*	0*	0*	0*	0*	0*	0	0	0	0*	0	0	0*	0*	0	0
46	Comfort Creek	0*	0	0	0*	0	0	50	700	1100	800*	500	350	180*	0*	3680	1470
48	Beartrap River	0*	0	0	0	0	470	500	760	8000	11500*	15000	7500*	3750*	0*	47480	18990
49	Cataract Creek	0*	0*	0*	0*	0*	0	0	0	350	1180*	2000	1000*	500*	0*	5030	2010
51	Olsen Creek	0*	0	10	10	0	5000	1000	6500	7500	5060	9000	5000	2500*	1250*	42830	17130
52	Control Creek	0*	0	10	10	200	970	1500	2580	4000	4450	3480*	2500	1250*	0*	20950	8380
54	Carlsen Creek	0*	0	0	0*	0	170	100	410	500	1170	500	250*	130*	0*	3230	1290
56	St. Matthews Cr.	0*	0*	0	0*	0	70	200	530	1500	2380	2500	1250*	630*	0*	9060	3620
71	W. Two Moon Bay	0*	0*	0*	0*	0*	0*	0*	0	50	280*	500	250*	130*	0*	1210	480
72	Two Moon Creek	0*	0*	0*	0*	0*	0*	0*	0	150	580*	1000	500*	250*	0*	2480	990
73	Tundra Creek	0*	0*	0*	0*	0*	0*	0*	0	50	130*	200	100*	50*	0*	530	210
76	Irish Creek	0*	0*	0*	0*	0	700	1000	1100	3500	5070	3000	1500*	750*	0*	16620	6650
80	Whalen Creek	0*	0	0	30	50	1230	1000	1250	2800	4560	4000	2000*	1000*	0*	17920	7170
83	Keta Creek	0*	0*	0*	300*	600*	1200	1500	1800	3000	1690	1100*	500#	250*	0*	11940	4780

* Interpolation. ___ Ground counts.

¢ Aerial surveys by Pete Fridgen. # Counted by Wally Noerenberg.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Eastern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2¢	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
87	Sunny River	0*	0*	0*	0*	50*	100	300	700	900	1200*	1500	750*	380*	0*	5880	2350
88	Short Creek	0*	0*	0*	0*	150*	300	300	300	600	1550*	2500	1250*	630*	0*	7580	3030
89	Fish Creek	0*	0	0	250*	500	1790	3510*	5220	7500	7770	8000	4000*	2000*	0*	40540	16220
92	Shale Creek	0*	0*	0	0*	0	80	150	360	1000	1480	500	250*	130*	0*	3950	1580
93	Kirkwood Creek	0*	0*	0	0*	0	540	450	350	700	1120	1500	750*	380*	0*	5790	2320
94	Rock Creek	0*	0*	0	0*	0	50	50*	0	500	750*	1000	500*	250*	0*	3100	1240
99	Lagoon Creek	0*	0*	0	0*	0	470	800	1100	3000	5220	2000	1000*	500*	0*	14090	5640
106	Gladhough Cr.	0*	0*	0*	40*	80*	160	10	250*	500	630	1000	500*	250*	0*	3420	1370
107	Black Creek	0*	0*	0*	0*	0*	0	0	150*	300	650*	1000	500*	250*	0*	2850	1140
114	Turner Creek	0*	0*	0	0*	0	0	0	0	0	0*	0	0*	0*	0*	0	0
115	Millard Creek	0*	0	0	0*	0	130	0	5000	7000	3000	1500	750*	380*	0*	17760	4440 1/
116	Duck River	0*	0*	0	0*	0	0	0	1000	10000	12250*&	25000	35000#	17500*	8750*	109500	43800
117	Indian Creek	30*	50	50	60	500	2650	2000	5500	5500	5750*	6000	3000*	1500*	750*	33340	13340
120	Donaldson Cr.	0*	0	100	100	100	440	200	500	500	700	500	250*	130*	0*	3520	1410
121	Levshakoff Cr.	0*	0	10	20	100	970	1000	800	1500	990	2000	1000*	500*	0*	8890	3560
123	Gregorieff Cr.	0*	0	20	30	300	900	700	970	1200	1810	3500	1750*	880*	0*	12060	4820
127	Naomoff River	0*	0*	0	30*	50	3000	2000	1500	4700	3100*	1500	750*	380*	0*	17010	6800
129	Vlasoff Creek	0*	0*	0	250*	500	2100	1000	2600	5000	4000*	3000	1500*	750*	0*	20700	8280
131	Gorge Creek	0*	0*	0*	10	10*	250	400	700	1000	500	250*	130*	0*	0*	3250	1300
133	Sawmill Creek	0*	0*	0*	50*	100	170	1000	1500	2000	370	190*	100*	0*	0*	5480	2190
137	Lowe River	0*	0*	0*	0*	0*	120*	230*	450*	900	450*	230*	120*	0*	0*	2500	1000

* Interpolations. ___ Ground counts. ¢ Aerial surveys by Pete Fridgen. 1/ Stream life factor 4.0.

& Interpolation based on 70% pinks and 30% chums. Percentages as per ground surveyor observations.

\# Counted by Wally Noerenberg.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Eastern		WEEK ENDING DATE															
Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2¢	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW÷2.5
143	Siwash Creek	0*	0*	0*	0*	0*	0*	0*	0*	0	0*	0*	0*	0*	0*	0	0
145	Crooked Creek	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0	0
148	Mineral Flats	0*	0*	0*	0*	0	250*	500	200	200	100*	50*	30*	0*	0*	1330	530
152	Twin Falls Cr.	0*	0*	50*	100*	200*	400	100	100	800	1650*	2500	1250*	630*	0*	7780	3110
153	Stellar Creek	100*	200	400	930	1500	9500	9000	7860	8500	7580	10000	5000*	2500*	1250*	64320	25730
50**	Gravina River										5500**						
Eastern Totals		170	330	800	8150	12190	49120	47930	68990	106810	111430	125520	89810	44800	12970	679020	268940

* = Interpolations. ___ = Ground counts. ** = Not included in totals. ¢ = Aerial surveys by Pete Fridgen.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Northern		WEEK ENDING DATES															
Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
213	Bench Mark Creek	0*	0*	0*	0*	0	0*	0	100	50	470	240*	120*	60*	0*	1040	420
214	Long Creek	0*	0*	0*	50*	100	0	0	300	2000	4130	4000*	2000*	1000*	500*	14080	5630
216	Vanishing Creek	0*	0*	0*	0*	0	10	0	3620	4500	4180	5000*	2500*	1250*	630*	21690	8680
217	Spring Stream	0*	0*	0*	0*	0	0*	0	600	1500	2000*	1000*	500*	250*	130*	5980	2390
218	Billy's Creek	0*	0*	0	0*	0	0*	0*	0	0	0*	0*	0*	0*	0*	0	0
221	Eickelberg Creek	0*	0*	0*	0*	0*	0*	0	0	100	590	1000*	500*	250*	130*	2570	1030
224	Backyard Creek	0*	0*	0*	0*	0*	0	0	0	2500	5600	2800*	1400*	700*	350*	13350	5340
227	Granite Creek	0*	0*	0*	0*	0*	0	0	0	1400	2800*	1400*	700*	350*	180*	6830	2730
229	Cedar Creek	0*	0*	0	0*	0	110	1200	3000	4500	4900	10000*	5000*	2500*	1250*	32460	12980
234	Wells River	0*	0	0	0	300	130	500	1500	10500	6840	3420*	1710*	860*	430*	26190	10480
241	Cannery Creek	0*	0*	0	0*	0	0	1000	4200	6500	10000Δ	5000*	2500*	1250*	630*	31080	7770 1/
259	Jonah Creek	0*	0*	0	400*	800	2270	4000	7320	6000	4600	2300*	1150*	580*	290*	29710	7430 1/
264	Siwash River	0*	0*	2050*	4100*	8200	8000	10000	12000	14000	16140	20000*	10000*	5000*	2500*	111990	44800
265	Unakwik Creek	0*	0*	40*	80*	150	1200	800	1090	2200	5080	2540*	1270*	640*	320*	15410	6160
276	Black Bear Creek	0*	0*	0*	0*	0	0	500	5220	3500	5870	8000*	4000*	2000*	1000*	30090	12040
277	Eaglek Bay E.	0*	0*	0*	0*	0	0	0	200	300	3000*	1500*	750*	380*	190*	6320	2530
278	Eaglek Bay E.	0*	0*	0*	0*	0	100	300*	500	150	1650	3000*	1500*	750*	380*	8330	3330
279	Canyon Creek	0*	0*	0*	0*	0	1000	2000	15000	11000	5500*	2750*	1380*	690*	350*	39670	15870
282	Eaglek River Del.	0*	0*	0*	0*	0	0	1000	2500	3000	1080	1000*	500*	250*	130*	9460	3780
283	Unnamed Creek	0*	0*	0*	0*	0	300	200	3000	3000	5000*	2500*	1250*	630*	320*	16200	6480
272	Eaglek Bay E.**									270**							
Northern Totals		0	0	2090	4630	9550	13120	21500	60150	76700	89430	77450	38730	19390	9710	422450	159870

* = Interpolations. ___ = Ground counts. 1/ = Stream life factor 4.0

Δ = Counted by T. Kohler. ** = Not included in totals.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Coghill

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
303	Triple Creek	0*	0*	0*	0*	0	100	300	780	2000	1660	1600*	800*	400*	200*	7840	3140
307	Village Creek	0*	0*	0*	0*	0	0	50	100	500	270	600*	300*	150*	0*	1970	790
310	Golden Lagoon	0*	0*	0*	0*	0*	0*	0	20	100	1000*	500*	250*	130*	0*	2000	800
314	Avery River	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0*	0	0
322	Coghill River - (below weir)	0*	0*	0*	130*	250*	500	4000	3000	26000	13000*	6500*	3250*	1630*	820*	59080	147701/
322	Coghill River (lake count)	0*	0*	20	50*	70	40	0*	0*	0*	0*	0*	0*	0*	0*	180	180+
414	Harrison Lagoon	0*	0*	0*	250*	500*	990	700	620	1700	930	460*	230*	120*	0*	6500	2600
417	Hobo Creek	0*	0*	0*	0*	0*	0	0*	0	0	0*	0*	0*	0*	0*	0	0
421	Mill Creek	0*	0*	0*	0*	0	80	1000	2800	3500	5000*	2500*	1250*	630*	320*	17080	6830
424	Port Wells	0*	0*	0*	0*	0	0	10	150	1000	4510	2260*	1130*	570*	280*	9910	3960
425	Hummer Creek	0*	0*	0*	0*	0	300	500	700	3000	5000*	2500*	1250*	630*	320*	14200	5680
428	Pirate Creek	0*	0*	0*	0*	0	0	10	600	600	760	1000*	1000*	500*	250*	4720	1890
430	Meacham Creek	0*	0*	0*	0*	0	970	1500	5500	5000	4680	2340*	1170*	590*	300*	22050	8820
432	Swanson Creek	0*	0*	450*	900*	1800	5000	9000	14000	14000	10000*	5000*	2500*	1250*	630*	64530	25810
Coghill Totals		0	0	470	1330	2620	7980	17070	28270	57400	46810	25260	13130	6600	3120	210060	75270

* = Interpolations. ___ = Ground counts. 1/ = Stream life factor 4.0.

+ = Weir count accepted at full value.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Northwestern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
435	Logging Camp Cr.	0*	0*	0*	0*	0	0	50	600	400	2000*	1000*	500*	250*	0*	4800	1920
450	Tebenkof Creek	0*	0*	0*	0*	0	920	500	3140	4500	3220	1610*	810*	400*	0*	15100	6040
451	Blackstone Creek	0*	0*	0*	0*	0	60*	120	1500	1800	900*	450*	230*	120*	0*	5180	2070
454	Halferty Creek	0*	0*	0*	0*	0	0	1000	500	6500	3250*	1620*	810*	400*	0*	14080	5630
455	Paulson Creek	0*	0*	0*	0*	0	2510	2500	3170	2000	5480	2740*	1370*	680*	0*	20450	8180
458	Parks Creek	0*	0*	0*	0*	0	4600	6500	3000	7000	3500*	1750*	880*	440*	0*	27670	11070
469	Wickett Creek	0*	0*	0*	0*	310*	620	1320*	2030	2350*	2670	1340*	670*	340*	0*	11650	4660
471	Narrows Creek	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0	0
476	Shrode Creek	0*	0*	0*	0*	0	0	200	5000	22000	30000*	15000*	7500*	3750*	1880*	85330	34130
479	Culross Creek	0*	0*	0*	0*	0	0	200	1300	2000	2390	10000*	5000*	2500*	1250*	24640	9860
480	Mink Creek	0*	0*	100*	200*	400	2030	3500	3450	5000	6730	15000*	7500*	3750*	1880*	49540	19820
484	Finger Creek E.	0*	0*	0*	0*	80*	150	400	510	1200	1120	2500*	1250*	630*	0*	7840	3140
485	Finger Creek W.	0*	0*	0*	0*	750*	1500	3000	4000	3500	4350	5000*	2500*	1250*	630*	26480	10590
493	Most Creek	0*	0*	0*	0*	10*	20	50	190	300	430	500*	250*	0*	0*	1750	700
495	Chimevisky Lagoon	0*	0*	0*	0*	0	150$	400*	650	2500	2880	5000*	2500*	1250*	630*	15960	6380
498	McLure Creek	0*	0*	0*	0*	0	80*	150	400	650	1400*	700*	350*	0*	0*	3730	1490
Northwestern Totals		0	0	100	200	1550	12640	19890	29440	61700	70320	64210	32120	15760	6270	314200	125680

* = Interpolations. ___ = Ground counts. $ = Counted at high tide.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Eshamy

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
506	Loomis Creek	0*	0*	0*	0*	0*	40*	70*	140*	280	320	160*	80*	40*	0*	1130	450
507	Gumboot Creek	0*	0*	0*	0*	0*	170*	340*	680*	1350	2000	1000*	500*	250*	0*	6290	2520
508	N. shore, Eshamy Lagoon	0*	0*	0*	0*	0*	0*	0*	0*	0	0	0*	0*	0*	0*	0	0
510	Elishansky Creek	0*	0*	0*	0*	0*	10*	20*	40*	80	1700	850*	430*	220*	0*	3350	1340
511	Eshamy River	0*	0*	0*	0*	30*	50*	90*	180*	350	500	250*	130*	70*	0*	1650	660
	Eshamy River (weir count)	0*	0	0	0	0	3	2	20	98	310	170	80*	40*	0*	720@	720
Eshamy Totals		0	0	0	0	30	270	520	1040	2060	4520	2260	1140	580	0	12420++	5690

District: Southwestern

601	Paddy Creek	0*	0*	0*	0*	0	0	100	500	600	460	2500*	1250*	630*	320*	6360	2540
602	Nacktan Creek	0*	0*	0*	0*	0	0	0	200	600	1000*	500*	250*	130*	0*	2680	1070
603	Ewan Creek	0*	0*	0*	0*	0	100	300	2500	2500	5000*	10000*	15000*	7500*	3750*	46650	18660
604	Erb Creek	0*	0*	0*	0*	0	730	400	1000	2000	2610	5000*	2500*	1250*	630*	16120	6450
608	Jackpot River	0*	0*	0*	0*	0	800	8000	40000	50000	50000*	50000*	25000*	12500*	6250*	242550	606401/

* = Interpolations. ___ = Ground counts. @ = Rounded to the nearest ten fish and accepted at full value.

++ = Less the Eshamy River weir count. 1/ = Stream life factor 4.0.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District:	Southwestern (cont.)	WEEK ENDING DATES															
Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
610	Kompkoff River	0*	0*	0*	0*	0	120	200	900	1000	1550	2000*	1000*	500*	250*	7520	3010
611	W. Arm, Jackpot	0*	0*	0*	0*	0	0	0	10	50	1000*	500*	250*	130*	0*	1940	780
612	W. Arm, Jackpot	0*	0*	0*	0*	0	10	30*	50	150	500*	250*	130*	0*	0*	1120	450
613	Jackson Creek	0*	0*	0*	100*	200	500	1000	4500	4200	5500*	2750*	1380*	690*	350*	21170	8470
621	Totemoff Creek	0*	0*	0*	0*	20*	40	200	2300	1500	4800	7000*	3500*	1750*	880*	21990	8800
623	Brizgaloff Creek	0*	0*	0*	0*	0*	0	400	3000	3200	10000*	5000*	2500*	1250*	630*	25980	10390
630	Bainbridge Creek	0*	0*	0*	0*	0	2650	8000	12000	19000	16500*	14000*	7000*	3500*	1750*	84400	33760
632	Claw Creek	0*	0*	0*	0*	0	1140	700	600	1100	1340	2000*	1000*	500*	250*	8630	3450
633	Pablo Creek	0*	0*	0*	0*	0	940	500	950	1600	2280	4000*	2000*	1000*	500*	13770	5510
634	Whale Bay	0*	0*	0*	0*	0	0	0	200	200	1000*	500*	250*	130*	0*	2280	910
636	Whale Creek	0*	0*	0*	0*	0	50*	100	1500	1000	6000*	3000*	1500*	750*	380*	14280	5710
653	Hogg Creek	0*	0*	0*	0*	0*	30	300	600	1000*	1200*	600*	300*	150*	0*	4180	1670
655	Johnson Creek	0*	0*	0*	0*	0	770	1000	4500	7000	7810	10000*	5000*	2500*	1250*	39830	15930
656	Halverson Creek	0*	0*	0*	0*	0	1730	2000	1260	1500	2300	6000*	3000*	1500*	750*	20040	8020
665	Bjorne Creek	0*	0*	0*	0*	0	0	0	2500	2200	4000*	2000*	1000*	500*	250*	12450	4980
666	O'Brien Creek	0*	0*	0*	0*	0	0	400	1670	2400	3320	1660*	830*	420*	210*	10910	4360
670	Montgomery Creek	0*	0*	0*	0*	0*	0*	0	20	50	150*	80*	40*	0*	0*	340	140
672	Big Bay - Latouche Island	0*	0*	0*	0*	0*	0*	0	0	10	700*	350*	180*	90*	0*	1330	530
673	Falls Creek	0*	0*	0*	0*	0*	0	200	780	2100	1000	2900#	1450*	720*	360*	9510	3800
676	Horseshoe Creek	0*	0*	0*	0*	0*	30*	50	600	800	1000*	1200*	600*	300*	150*	4730	1890
677	Hayden Creek	0*	0*	0*	0*	0*	0	20	1000	1300	940	1900#	950*	480*	240*	6830	2730
Southwestern Totals		0	0	0	100	220	9640	23900	83140	107060	131960	135960	77860	38870	19150	627590	214650

* = Interpolations. ___ = Ground counts.

= Counted by Wally Noerenberg.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Montague

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
702	Point Creek	0*	0*	0*	0*	0*	0*	30*	50	100	200*	100*	50*	0*	0*	530	210
703	Clam Beach Cr.	0*	0*	0*	0*	0*	0*	0*	0	0	100*	50*	0*	0*	0*	150	60
707	MacLeod Creek	0*	0*	0*	0*	0*	0*	10	400	400	200*	100*	50*	0*	0*	1160	460
710	Hanning Creek	0*	0*	0*	0*	0*	0*	0	150	100	100*	50*	0*	0*	0*	400	160
711	Quadra Creek	0*	0*	0*	0*	0*	150*	300	600	1300	650*	330*	160*	80*	0*	3570	1430
717	W. shore, Montague Island	0*	0*	0*	0*	0*	0*	0	50	0	0*	0*	0*	0*	0*	50	50@@
718	W. shore, Montague Island	0*	0*	0*	0*	0*	0*	0	100	100*	50*	0*	0*	0*	0*	250	100
719	W. shore, Montague Island	0*	0*	0*	0*	0*	0*	0	10	0	0*	0*	0*	0*	0*	10	10@@
722	W. shore, Montague Island	0*	0*	0*	0*	0*	0*	0	0	100	50*	0*	0*	0*	0*	150	60
724	W. shore, Montague Island	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0*	0	0
725	W. shore, Montague Island	0*	0*	0*	0*	0*	0*	0	0	300	150*	80*	40*	0*	0*	570	230
726	Montague Creek	0*	0*	0*	0*	0*	0*	0	100	100*	50*	0*	0*	0*	0*	250	100
738	Russell Creek	0*	0*	0*	0*	0*	0*	0	0	20	10*	0*	0*	0*	0*	30	20@@
739	Swamp Creek	0*	0*	0*	0*	0*	50*	100	2200	3700	2580*	1460	730*	360*	180*	11360	4540
740	Kelez Creek	0*	0*	0*	0*	0*	0*	0	600	1500	1290*	1090	550*	280*	140*	5450	2180
741	Chalmers River	0*	0*	0*	0*	0*	100*	200	50	600	300*	150*	80*	0*	0*	1480	590
744	Wilby Creek	0*	0*	0*	0*	0*	0*	0	900	530	870*	1140	1000*	500*	250*	5190	2080
745	Wild Creek	0*	0*	0*	0*	0*	0*	0	60	40	270*	490	1400*	700*	350*	3310	1320

* = Interpolations. ___ = Ground counts. @@ = Accepted as total escapement.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Montague (cont.)		WEEK ENDING DATES															
Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
746	Schuman Creek	0*	0*	0*	0*	0	0*	0	1300	1220	1180*	1140	570*	280*	140*	5830	2330
747	Cabin Creek	0*	0*	0*	0*	0	0*	0	2000	4010	7480*	10950	5480*	2740*	1370*	34030	13610
748	Gilmour Creek	0*	0*	0*	0*	0*	0*	0*	0	250	1000*	500*	250*	130*	0*	2130	850
749	Shad Creek	0*	0*	0*	0*	0*	500*	1000*	2000	1300	1600*	1890	2000*	1000*	500*	11790	4720
752	Stockdale Creek	0*	0*	0*	0*	0*	0*	0*	0	1800	2000*	1000*	500*	250*	130*	5680	2270
753	Stockdale Bay	0*	0*	0*	0*	0*	0*	0*	0	500	1500*	750*	380*	190*	100*	3420	1370
754	Dry Creek	0*	0*	0*	0*	0*	0*	80*	150	700	2000*	1000*	500*	250*	130*	4810	1920
758	Head Rocky Bay	0*	0*	0*	0*	0*	0*	0*	0	1850	1400*	940	1000*	500*	250*	5940	2380
759	Rocky Creek	0*	0*	0*	0*	0*	0*	0*	0	2000	2160*	2320	2500*	1250*	630*	10860	4340
766	Carr Creek	0*	0*	0*	0*	0*	0*	0*	0	0	0*	0*	0*	0*	0*	0	0
770	Udall Creek	0*	0*	0*	0*	0*	0*	0	0	0	150*	290	150*	80*	0*	670	270
771	McKernan Creek	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0*	0	0
774	Rosswog Creek	0*	0*	0*	0*	0*	0*	0	100	340	500*	650	330*	160*	80*	2160	860
775	Pautzke Creek	0*	0*	0*	0*	0*	0*	0	0	10	30*	50	50*	30*	0*	170	70
788	Green Creek	0*	0*	0*	0*	0*	0*	50*	100	50*	30*	0*	0*	0*	0*	230	90
Montague Totals		0	0	0	0	0	800	1770	10920	22920	27900	26520	17770	8780	4250	121630	48680

* = Interpolations. ___ = Ground counts.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District:	Southeastern	WEEK ENDING DATES															
Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW÷2.5
805	S. shore, Port Etches	0*	0*	0*	0*	0*	0	0	0*	0*	0*	0*	0*	0*	0*	0	0
806	Dog Salmon Creek	0*	0*	0*	0*	0*	0	0	0*	0	330*	660	330*	170*	80*	1570	630
807	Beaver Creek	0*	0*	0*	0*	0*	0	0	0*	0*	0*	0*	0*	0*	0*	0	0
810	Garden Creek	0*	0*	0*	0*	0*	0	0	700*	1400	2220*	3040	1520*	760*	380*	10020	4010
811	Etches Creek	0*	0*	0*	0*	0*	0	0	0*	0	0*	0*	0*	0*	0*	0	0
812	Nuchek Creek	0*	0*	0*	0*	250*	1100	1900	2000	10000	9600*	9200	4600*	3200*	1600*	43450	17380
815	Constantine Cr.	0*	0*	0*	0*	0	3500	4000	7500	11000	10010*	9010	4500*	2250*	1130*	52900	21160
817	Deer Creek	0*	0*	0*	0*	330*	650	800	1200	3200	1600*	800*	400*	200*	100*	9280	3710
818	Juania Creek	0*	0*	0*	0*	10*	30	40	600	1800	900*	450*	230*	120*	60*	4240	1700
821	Brown Bear Creek	0*	0*	0*	0*	200*	400	500	2500	4500	2250*	1130*	560*	280*	140*	12460	4980
827	Captain Creek	0*	0*	0*	0*	0*	0	200	800	2590	3950*	5300	2650*	1320*	660*	17470	6990
828	Cook Creek	0*	0*	0*	0*	190	370	1400	4500	7500	7230*	7050	3520*	1760*	880*	34400	13760
829	King Creek	0*	0*	0*	0*	0*	0	0	100	600	300*	150*	80*	0*	0*	1230	490
831	Double Creek	0*	0*	0*	0*	40*	70	200	1300	3300	3040*	2780	1390*	700*	350*	13170	5270
833	Bates Creek	0*	0*	0*	0*	0*	0	0	50	200	100*	50*	0*	0*	0*	400	160
834	Hardy Creek	0*	0*	0*	0*	0*	0	300	3500	6500	3250*	1620*	810*	400*	200*	16580	6630
835	Scott Creek	0*	0*	0*	0*	0*	0	600	1500	3000	1500*	750*	380*	190*	100*	8020	3210
836	Dan's Creek	0*	0*	0*	0*	0*	0	0	0	0	0*	0*	0*	0*	0*	0	0
837	Dan's Bay	0*	0*	0*	0*	0*	0	200	300	2400	1200*	600*	300*	150*	80*	5230	2090
839	Dan's Bay	0*	0*	0*	0*	0*	0	0	500	950	480*	240*	120*	60*	0*	2350	940
844	Makaka Creek	0*	0*	0*	0*	0*	0	0	2500	6000	9060*	12120	6060*	3030*	1520*	40290	16120
847	Hawkins Creek	0*	0*	0*	0*	0*	0	600	4000	10490	8910*	7330	3660*	1830*	920*	37740	15100
849	Rollins Creek	0*	0*	0*	0*	0*	0	0	300	1100	1400*	1690	840*	420*	210*	5960	2380

* = Interpolations. ___ = Ground counts.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Southeastern (cont.)

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW÷2.5
		WEEK ENDING DATES															
850	Canoe Creek	0*	0*	0*	0*	60*	110	1000	700	2050	2450*	2840	5000*	2500*	1250*	17960	7180
851	Zillesenoff Cr.	0*	0*	0*	0*	0*	0	0	300	1980	2290*	2600	1300*	650*	320*	9440	3780
856	Cedar Bay	0*	0*	0*	0*	0*	0	0	300	2200	1360*	520	1300*	650*	320*	6650	2660
857	Cedar Bay	0*	0*	0*	0*	0*	0	0	50	1110	1550*	2000	2800*	1400*	700*	9610	3840
858	Cedar Bay	0*	0*	0*	0*	0*	0	0	200	500	250*	120*	920*	460*	230*	2680	1070
861	Bernard Creek	0*	0*	0*	0*	0	80	190*	300	3500	3940*	4390	2200*	1100*	550*	16250	6500
862	Clamdiggers Cr.	0*	0*	0*	0*	0	0	0	100	500*	600*	300*	150*	80*	0*	1730	690
863	Orca Creek	0*	0*	0*	0*	30*	50	300	1400	1900	2290*	2680	1340*	670*	330*	10990	4400
Southeastern Totals		0	0	0	0	1110	6360	12230	37200	90270	82060	79420	46960	24350	12110	392070	156830

* = Interpolations. ___ = Ground counts.

Appendix Table A. Weekly estimate of live pink salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District Summaries

DISTRICT	WEEK ENDING DATES 6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
Eastern	170	330	800	8150	12190	49120	47930	68990	106810	111430	125520	89810	44800	12970	679020	268940
Northern	0	0	2090	4630	9550	13120	21500	60150	76700	89430	77450	38730	19390	9710	422450	159870
Coghill	0	0	470	1330	2620	7980	17070	28270	57400	46810	25260	13130	6600	3120	210060	75270
Northwestern	0	0	100	200	1550	12640	19890	29440	61700	70320	64210	32120	15760	6270	314200	125680
Eshamy	0	0	0	0	30	270	520	1040	2060	4520	2260	1140	580	0	12420	5690
Southwestern	0	0	0	100	220	9640	23900	83140	107060	131960	135690	77860	38870	19150	627590	214650
Montague	0	0	0	0	0	800	1770	10920	22920	27900	26520	17770	8780	4250	121630	48680
Southeastern	0	0	0	0	1110	6360	12230	37200	90270	82060	79420	46960	24350	12110	392070	156830
PWS Grand Totals	170	330	3460	14410	27270	99930	144810	319150	524920	564430	536330	317520	159130	67580	2779440	1055610

APPENDIX B

Chum salmon escapement estimates by stream, district, and calculated season total by stream and district.

A recapitulation by district, week, and season total estimated spawning escapement is given at the end of the district totals.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978.

District: Eastern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW÷2.5
		WEEK ENDING DATES															
2	Hartney Creek	0*	0*	0*	0*	0*	0*	10*	20	10*	0*	0*	0*	0*	0*	40	20
5	Eccles Creek	0*	0*	0*	0*	0*	0*	10*	20	10*	0*	0*	0*	0*	0*	40	20
20	Spring Creek	0*	0	0	0*	0	0	0	0	0	0*	0*	0*	0*	0*	0	0
21	Rogue Creek	0*	0	0	0*	0	0	0	0	0	0	0*	0*	0*	0*	0	0
23	Chase River	0*	150*	300*	650*	1300	1100	300	0	10	10*	0*	0	0*	0*	3820	1530
35	Koppen Creek	300*	600	4000	5780	8000	1480	2000	140	80*	20	10*	0	0*	0*	22410	8960
36	Sheep River	50*	100*	200	250*	300	500	500	200	0	0*	0*	0	0*	0*	2100	840
46	Comfort Creek	0*	0	200	400*	600	250	250	0	0	80*	150	0	0*	0*	1930	770
48	Beartrap River	750*	1500	3500	6150	5500	3180	4000	1660	560*	60	30*	20*	10*	0*	26920	10770
51	Olsen Creek	750*	1500	3000	3960	3500	1460	1820*	750	470*	190ϕ	100*	0	0*	0*	17500	7000
52	Control Creek	100*	200	600	990	1300	130	500	10	0	10	10*	0	0*	0*	3850	1540
54	Carlsen Creek	0*	0	0	0*	10	10	0	0	0	0	0*	0	0*	0*	20	10
80	Whalen Creek	0*	0	0	710	750	10	0	0	0	0	0*	0	0*	0*	1470	590
83	Keta Creek	0*	0*	0*	0*	0*	0	0	30	200	180	840*	2500#	1250*	650*	5650	2260
87	Sunny River	0*	0*	0*	0*	0*	0	0	200	1000	1500*	2000	5000	6000*	6000*	21700	8680
89	Fish Creek	0*	50	600	800*	1000	1280	2000	140	90*	40	20*	10*	0*	0*	6030	2410
99	Lagoon Creek	0*	150*	300	400*	500	1080	700	800	650*	730	370*	0	0*	0*	5680	2270
116	Duck River	0*	0*	50	2580*	5200	6000	12000	10000	5000	6250*	7500*&	3750	1880*	940*	61150	24460
117	Indian Creek	900*	1800	4450	4790	5000	2080	1500	40	0	0	0*	0	0*	0*	20560	8220
121	Levshakoff Creek	80*	150	240	360	450	370	500	20	0	0	0*	0	0*	0*	2170	870
123	Gregorieff Creek	50*	100	580	460	500	160	100	10	0	20	10*	0	0*	0*	1990	800
127	Naomoff Creek	0*	0*	0	450*	900	1600	5000	4100	2000	2250*	2500	500	250*	130*	19680	7870
129	Vlasoff Creek	0*	0*	0	0*	0	100	600	500	1000	1500*	2000	100	50*	30*	5880	2350

* = Interpolations. ___ = Ground counts. ϕ = 670 counted by Jack Helle on 8/24. 200 in mouth.

= Counted by Wally Noerenberg. & = Interpolation based on 30% chums as per ground surveyor estimate.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Eastern (cont.)

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW÷2.5
		WEEK ENDING DATES															
131	Gorge Creek	0*	180*	350*	700	450	150	400	0	0	0	0*	0*	0*	0*	2230	890
133	Sawmill Creek	0*	0*	70*	130*	250	50	1000	600*	200	0	0*	0*	0*	0*	2300	920
143	Siwash Creek	0*	0*	0*	0*	0*	0*	0*	0*	0	0*	0*	0*	0*	0*	0	0
145	Crooked Creek	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0	0
146	Seepage Creek	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0	0
148	Mineral Creek	0*	0*	0*	0*	0	600*	1200	2900	2600	1300*	650*	330*	170*	0*	9750	3900
152	Twin Falls Creek	0*	0*	0*	50*	100*	200	700	1200	1200	850*	500	400	200*	100*	5500	2200
153	Stellar Creek	0*	0	100	1000	1500	900	1000	250	0	200*	390	0	0*	0*	5340	2140
Eastern Totals		2980	6480	18540	30610	37110	22690	36090	23590	15080	15190	17080	12610	9810	7850	255710	102290

* = Interpolations. ___ = Ground counts.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Northern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
214	Long Creek	0*	0*	580*	1150*	2300	1750*	1200	700	1500	750*	380*	190*	0*	0*	10500	4200
216	Vanishing Creek	0*	0*	0*	0*	0	500	320*∞	140	120*∞	90	50*	0*	0*	0*	1220	490
217	Spring Stream	0*	100*	200*	400*	400	180*	50	100	100	50*	30*	0*	0*	0*	1610	640
221	Eickelberg Creek	0*	0*	0*	0*	0*	0*	0	0	0	0	0*	0*	0*	0*	0	0
229	Cedar Creek	0*	0*	0	900*	1800	2470	1250*∞	20	0	0	0*	0*	0*	0*	6440	2580
234	Wells River	150*	300	5500	4880	8200	4780	4000	2030*T	50	40	20*	0*	0*	0*	29950	11980
259	Jonah Creek	0*	0*	0	0*	0	80	160*∞	230	240*∞	260	130*	0*	0*	0*	1100	440
264	Siwash River	0*	0*	0*	0*	0	810	500	400	500	1580	790*	0*	0*	0*	4580	1830
276	Black Bear Creek	0*	0*	100*	200*	400	300	500	130	80*∞	30	20*	0*	0*	0*	1760	700
279	Canyon Creek	0*	0*	50*	100*	200	200	1000	500	1000	500*	250*	0*	0*	0*	3800	1520
282	Eaglek River Del.	0*	0*	0*	0*	0	0	0	1000	200	0	0*	0*	0*	0*	1200	480
283	Eaglek River Del.	0*	0*	0*	0*	0	200	500	500	100	50*	30*	0*	0*	0*	1380	550
Northern Totals		150	400	6430	7630	13300	11270	9480	5750	3890	3350	1700	190	0	0	63540	25410

* = Interpolations. ___ = Ground counts.

∞ = Interpolation used based on ground counts.

T = Interpolation based on aerial survey of week ending 8/5 and ground survey of week ending 8/19.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Coghill

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
310	Golden Lagoon	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0*	0	0
314	Avery River	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0*	0	0
322	Coghill River	0*	280*	560*	1130*	2250*	4500	8000	6500	10000	5000*	1000*	0*	0*	0*	39220	98101/
414	Harrison Lagoon	0*	0*	0*	0*	30*	0	200	0	0	30	20*	0*	0*	0*	280	110
421	Mill Creek	0*	0*	0*	30*	50	50	1000	1090	860*	620	310*	150*	0*	0*	4160	1660
424	Port Wells	0*	0*	0*	0*	0	30	0	0	0	0*	0*	0*	0*	0*	30	30
425	Hummer Bay	0*	0*	0*	0*	0	0	200	100	200	100*	50*	0*	0*	0*	650	260
430	Meacham Creek	0*	0*	0*	30*	50	100	80*	50	40*	40	20*	0*	0*	0*	410	160
432	Swanson Creek	0*	0*	0*	0*	0	400	500	1060	860*	660	330*	0*	0*	0*	3810	1520
Coghill Totals		0	280	560	1190	2380	5080	9980	8800	11960	6450	1730	150	0	0	48560	13550

District: Northwestern

450	Tebenkof Creek	0*	0*	0*	350*	700	990	1500	300	200*	100	50*	30*	0*	0*	4220	1690
451	Blackstone Creek	0*	0*	0*	0*	0	10*	10	0	0	0*	0*	0*	0*	0*	20	10##
454	Halferty Creek	0*	0*	0*	300*	600	1300	4000	2500	1000	500*	250*	130*	0*	0*	10580	4230
455	Paulson Creek	0*	0*	0*	350*	700	1290	500	120	0	0	0*	0*	0*	0*	2960	1180
458	Parks Creek	0*	0*	0*	30*	50	50	500	3000	500	250*	130*	0*	0*	0*	4510	1800
469	Wickett Creek	0*	0*	0*	80*	150*	300	200*	90	50*	0	0*	0*	0*	0*	870	350

* = Interpolations. ___ = Ground counts. 1/ = Stream life factor 4.0.

= Total escapement based on highest survey.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Northwestern (cont.)

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
476	Shrode Creek	0*	0*	0*	0*	0	0	200	500	250*	130*	0*	0*	0*	0*	1080	430
479	Culross Creek	0*	0*	0*	50*	100	500	600	0	0	0	0*	0*	0*	0*	1250	500
480	Mink Creek	0*	0*	0*	0*	0	210	110*	10	0	0	0*	0*	0*	0*	330	130
484	Finger Creek E.	0*	0*	0*	0*	0*	0	0	20	0	0	0*	0*	0*	0*	20	20##
485	Finger Creek W.	0*	0*	0*	0*	0*	0	0	30	30*	20	10*	0*	0*	0*	90	40
493	Most Creek	0*	0*	0*	0*	10*	30	30*	30	0	0	0*	0*	0*	0*	100	40
495	Chimevisky Lagoon	0*	0*	0*	200*	400	1700*	3000	2500	1250*	90$	50*	0*	0*	0*	9190	3680
Northwestern Totals		0	0	0	1360	2710	6380	10650	9100	3280	1090	490	160	0	0	35220	14100

District: Eshamy

510	Elishansky Cr.	0*	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0	0
515	South Shore	0*	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0	0
Eshamy Totals		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* = Interpolations. ___ = Ground counts.

= Total escapement based on highest survey.

$ = Counted at high tide.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Southwestern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW±2.5
		WEEK ENDING DATES															
604	Erb Creek	0*	0*	0*	0*	0	40	0	10	0	0	0*	0*	0*	0*	50	50@@
613	Jackson Creek	0*	0*	0*	0*	0	300	200	100*	0	0*	0*	0*	0*	0*	600	240
630	Bainbridge Creek	0*	0*	0*	0*	0	40	50*	50	0	0	0*	0*	0*	0*	140	60
633	Pablo Creek	0*	0*	0*	0*	0	20	0	10	0	0	0*	0*	0*	0*	30	30@@
666	O'Brien Creek	0*	0*	0*	0*	0	100*	200	10	0	0	0*	0*	0*	0*	310	120
Southwestern Totals		0	0	0	0	0	500	450	180	0	0	0	0	0	0	1130	500

District: Montague

707	MacLeod Creek	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0*	0*	0*	0*	0	0
710	Hanning Creek	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0*	0*	0*	0*	0	0
711	Quadra Creek	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0*	0*	0*	0*	0	0
726	Montague Creek	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0*	0*	0*	0*	0	0
738	Russell Creek	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0*	0*	0*	0*	0	0
739	Swamp Creek	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0	0*	0*	0*	0	0
741	Chalmers River	0*	0*	0*	0*	0*	0*	0	0*	0	0*	0*	0*	0*	0*	0	0

* = Interpolations. ___ = Ground counts.

@@ = Accepted as total escapement.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District: Montague (cont.)

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
		WEEK ENDING DATES															
745	Wild Creek	0*	0*	0*	0*	0*	0*	0	0	0	0*	0	0*	0*	0*	0	0
746	Schuman Creek	0*	0*	0*	0*	0	0*	0	0	0	0*	0*	0*	0*	0*	0	0
747	Cabin Creek	0*	0*	0*	0*	0*	0*	0	0	0	0*	0	0*	0*	0*	0	0
770	Udall Creek	0*	0*	0*	0*	0*	0*	0*	0	0	0*	0	0*	0*	0*	0	0
775	Pautzke Creek	0*	0*	0*	0*	0*	0*	0*	0	0	0*	0	0*	0*	0*	0	0
Montague Totals		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

District: Southeastern

Stream Number	Stream Name or Location	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
806	Dog Salmon Creek	0*	0*	0*	0*	0*	0	0	0*	0	0*	0	0*	0*	0*	0	0
810	Garden Creek	0*	0*	0*	0*	0*	0	0	10*	20	40*	50	30*	0*	0*	150	60
812	Nuchek Creek	0*	0*	0*	0*	0*	10	0	100	20	40*	50	30*	0*	0*	250	100
815	Constantine Creek	0*	0*	0*	750*	1500	2830	5500	2000	310	290*	280	140*	70*	0*	13670	5470
821	Brown Bear Creek	0*	0*	0*	0*	50*	100	200	100	0	.0*	0*	0*	0*	0*	450	180
828	Cook Creek	0*	0*	0*	0*	50*	100	0	0	20	10*	0	0*	0*	0*	180	70
831	Double Creek	0*	0*	0*	0*	0*	0	0	0	0	0*	0	0*	0*	0*	0	0
834	Hardy Creek	0*	0*	0*	0*	0*	0	0	0	0	0*	0*	0*	0*	0*	0	0
835	Scott Creek	0*	0*	0*	0*	0*	0*	0	0	0	0*	0*	0*	0*	0*	0	0
839	Dan's Creek	0*	0*	0*	0*	80*	150	0	50	0	0*	0*	0*	0*	0*	280	110
850	Canoe Creek	0*	0*	0*	0*	40*	70	0	0	0	0*	0	0*	0*	0*	110	40
Southeastern Totals		0	0	0	750	1720	3260	5700	2260	370	380	380	200	70	0	15090	6030

* = Interpolations. ___ = Ground counts.

Appendix Table B. Weekly estimate of live chum salmon in Prince William Sound spawning streams, by management district, 1978 (continued).

District Summaries	WEEK ENDING DATES															
DISTRICT	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	Cum. Weekly Totals	Cal. Season Totals EW+2.5
Eastern	2980	6480	18540	30610	37110	22690	36090	23590	15080	15190	17080	12610	9810	7850	255710	102290
Northern	150	400	6430	7630	13300	11270	9480	5750	3890	3350	1700	190	0	0	63540	25410
Coghill	0	280	560	1190	2380	5080	9980	8800	11960	6450	1730	150	0	0	48560	13550
Northwestern	0	0	0	1360	2710	6380	10650	9100	3280	1090	490	160	0	0	35220	14100
Eshamy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southwestern	0	0	0	0	0	0	500	450	180	0	0	0	0	0	1130	500
Montague	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southeastern	0	0	0	750	1720	3260	5700	2260	370	380	380	200	70	0	15090	6030
PWS Grand Totals	3130	7160	25530	41540	57220	48680	72400	49950	34760	26460	21380	13310	9880	7850	419250	161880

APPENDIX C

Pink and chum salmon pre-emergent fry indices by stream, date, and sample zones.

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979.

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Humpback Creek											
#011											
04/05/79											
N8'-10'	0	0	0	0	0	0	0	0	0	0	10
N10'-12'	0	0	0	0	0	0	0	0	0	0	10
CIT Total 1/	0	0	0	0	0	0	0	0	0	0	20
06'-8'	0	0	0	0	0	0	0	0	0	0	12
08'-10'	0	0	1	0	0	0	0	0	0	0	12
010'-12'	0	0	152	0	0	0	0	0	0	0	12
Subtotal	0	0	153	0	0	0	0	0	0	0	36
OUPST	0	0	0	0	0	0	0	0	0	0	12
CUPST Total 2/	0	0	153	0	0	0	0	0	0	0	48
Total	0	0	153	0	0	0	0	0	0	0	68
Koppen Creek											
#035											
03/19/79											
N6'-8'	0	0	3	1	4	0	0	0	0	0	20
N8'-10'	0	1583	5	3	1591	0	812	18	0	830	20
N10'-12'	0	1017	409	0	1426	0	803	3	0	806	20
CIT Total	0	2600	417	4	3021	0	1615	21	0	1636	60
08'-10'	0	986	345	3	1334	0	241	1	0	242	20
010'-12'	0	108	500	0	608	0	549	54	0	603	20
Subtotal	0	1094	845	3	1942	0	790	55	0	845	40
OUPST	0	40	0	200	240	0	1	0	100	101	20
CUPST Total	0	1134	845	203	2182	0	791	55	100	946	60
Total	0	3734	1262	207	5203	0	2406	76	100	2582	120

CIT = Current intertidal

CUPST = Current Upstream

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Control Creek											
#052											
03/20/79											
N6'-8'	0	74	34	6	114	0	0	0	0	0	12
N8'-10'	0	342	160	0	502	0	0	0	0	0	12
N10'-12'	0	110	566	1	677	0	0	0	0	0	12
CIT Total	0	526	760	7	1293	0	0	0	0	0	36
O6'-8'	0	1358	0	38	1396	0	83	0	0	83	12
O8'-10'	0	1033	0	6	1039	0	748	0	0	748	12
O10'-12'	0	474	20	39	533	0	0	0	0	0	12
Subtotal	0	2865	20	83	2968	0	831	0	0	831	36
OUPST	0	200	299	18	517	0	0	0	0	0	16
CUPST Total	0	3065	319	101	3485	0	831	0	0	831	52
Total	0	3591	1079	108	4778	0	831	0	0	831	88
Whalen Creek											
#080											
03/20/79											
N6'-8'	0	25	0	0	25	0	0	0	0	0	12
N8'-10'	0	526	141	0	667	0	0	0	0	0	12
N10'-12'	0	167	398	0	565	0	0	0	0	0	12
CIT Total	0	718	539	0	1257	0	0	0	0	0	36
O10'-12'	0	3	1120	0	1123	0	0	0	0	0	12
OUPST	0	0	135	0	135	0	0	0	0	0	12
CUPST Total	0	3	1255	0	1258	0	0	0	0	0	24
Total	0	721	1794	0	2515	0	0	0	0	0	60

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	CHUM SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Square Feet
Sunny River											
#087											
03/21/79											
N6'-8'	0	1	9	0	10	0	2	0	0	2	8
N8'-10'	0	6	3	0	9	0	323	2	0	325	8
N10'-12'	0	68	0	0	68	0	959	0	0	959	8
N10'-12'	0	112	0	150	262	0	145	0	0	145	8
N10'-12'	0	38	60	0	98	0	203	0	0	203	8
CIT Total	0	225	72	150	447	0	1632	2	0	1634	40
Gladhough Creek											
#106											
03/21/79											
06'-8'	0	0	60	0	60	0	0	0	0	0	10
08'-10'	0	7	135	0	142	0	0	0	0	0	10
010'-12'	0	2	5	20	27	0	0	0	0	0	6 (10)
CIT Total	0	9	200	20	229	0	0	0	0	0	26 (30)
OUPST	0	6	32	1	39	0	0	0	0	0	10
Total	0	15	232	21	268	0	0	0	0	0	36 (40)
Duck River											
#116											
03/22/79											
L6'-8'	0	667	21	0	688	0	13	6	0	19	8
R6'-8'	0	326	0	1	327	0	31	0	0	31	8
Sub Total	0	993	21	1	1015	0	44	6	0	50	16
L8'-10'	0	562	0	0	562	0	103	0	0	103	8
R8'-10'	0	390	0	0	390	0	104	0	0	104	8
Sub Total	0	952	0	0	952	0	207	0	0	207	16

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	CHUM SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Square Feet
L10'-12'	0	1683	0	0	1683	0	301	0	0	301	8
R10'-12'	0	356	0	0	356	0	533	0	0	533	8
Subtotal	0	2039	0	0	2039	0	834	0	0	834	16
CIT Total	0	3984	21	1	4006	0	1085	6	0	1091	48
LUPST	0	809	0	33	842	0	215	50	30	295	8
RUPST	0	971	0	10	981	0	215	10	0	225	8
HUPST	0	1324	5	10	1339	0	1172	15	0	1187	8
CUPST Total	0	3104	5	53	3162	0	1602	75	30	1707	24
Total	0	7088	26	54	7168	0	2687	81	30	2798	72
Indian Creek											
#117											
03/21/79											
06'-8'	0	349	0	0	349	0	15	0	0	15	20
08'-10'	0	434	20	0	454	0	102	0	0	102	20
010'-12'	0	3427	145	0	3572	0	517	0	0	517	20
CIT Total	0	4210	165	0	4375	0	634	0	0	634	60
OUPST	ICE										(20)
Total	0	4210	165	0	4375	0	634	0	0	634	60 (80)
Gregorieff Creek											
#123											
03/22/79											
06'-8'	0	49	6	0	55	0	2	0	0	2	12
08'-10'	0	80	0	1	81	0	26	0	0	26	12
010'-12'	0	881	0	59	940	0	1	0	20	21	12
CIT Total	0	1010	6	60	1076	0	29	0	20	49	36
OUPST	0	0	6	49	55	0	0	0	0	0	12
Total	0	1010	12	109	1131	0	29	0	20	49	48

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	CHUM SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Square Feet
Gorge Creek											
#131											
03/22/79											
06'-8'	0	0	0	0	0	0	0	0	0	0	14
08'-10'	0	226	0	0	226	0	27	0	0	27	14
010'-12'	0	663	0	0	663	0	129	0	0	129	14
CIT Total	0	889	0	0	889	0	156	0	0	156	42
Sawmill Creek											
#133											
03/23/79	COMPLETE STREAM COVERED WITH 18 INCHES TO 24 INCHES OF SNOW										(80)
Stellar Creek											
#153											
03/23/79											
N6'-8'	0	95	0	1	96	0	0	0	0	0	8
N8'-10'	0	34	24	14	72	0	0	0	0	0	14
N10'-12'	0	1851	75	0	1926	0	266	0	0	266	18
N10'-12'	0	243	150	0	393	0	440	50	90	580	12
CIT Total	0	2223	249	15	2487	0	706	50	90	846	52
OUPST	0	3419	10	20	3449	0	3	0	0	3	18
OUPST	0	1511	1419	18	2948	0	1	400	0	401	18
CUPST Total	0	4930	1429	38	6397	0	4	400	0	404	36
Total	0	7153	1678	53	8884	0	710	450	90	1250	88
Eickelberg Creek											
#221											
03/23/79											
06'-8'	0	116	0	0	116	0	0	0	0	0	10
08'-10'	0	0	3	0	3	0	110	0	0	110	10
010'-12'	0	91	25	0	116	0	0	0	0	0	10

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
CIT Total	0	207	28	0	235	0	110	0	0	110	30
OUPST	SNOW										(10)
Total	0	207	28	0	235	0	110	0	0	110	30 (40)
Unakwik Creek											
#265											
03/24/79											
N6'-8'	0	722	1	0	723	0	0	0	0	0	20
N8'-10'	0	613	20	0	633	0	0	0	0	0	20
N10'-12'	0	379	6	0	385	0	0	0	0	0	10
CIT Total	0	1714	27	0	1741	0	0	0	0	0	50
NUPST	0	0	0	0	0	0	0	0	0	0	10
Total	0	1714	27	0	1741	0	0	0	0	0	60
Blackbear Creek											
#276											
03/24/79											
N6'-8'	0	188	233	0	421	0	0	4	0	4	8
N8'-10'	0	211	132	0	343	0	1	15	0	16	8
N10'-12'	0	320	110	20	450	0	120	30	5	155	8
CIT Total	0	719	475	20	1214	0	121	49	5	175	24
NUPST	0	2112	5	725	2842	0	594	0	70	664	16
Total	0	2831	480	745	4056	0	715	49	75	839	40
Coghill River											
#322											
03/24/79											
N5'	0	245	1	0	246	0	576	0	0	576	28

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	CHUM SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Square Feet
Mill Creek											
#421											
03/25/79											
N6'-8'	0	926	15	0	941	0	117	0	0	117	16
N8'-10'	0	797	5	0	802	0	514	0	0	514	16
N10'-12'	0	1021	15	50	1086	0	1038	25	52	1115	16
CIT Total	0	2744	35	50	2829	0	1669	25	52	1746	48
NUPST	0	717	0	31	748	0	671	1	6	678	12
Total	0	3461	35	81	3577	0	2340	26	58	2424	60
Meacham Creek											
#430											
03/25/79											
N6'-8'	0	13	82	2	97	0	0	1	0	1	16
N8'-10'	0	206	5	3	214	0	0	0	0	0	8
N8'-10'	0	250	210	1	461	0	0	0	0	0	12
N10'-12'	0	453	225	8	686	0	12	0	0	12	8
N10'-12'	0	1588	27	0	1615	0	179	0	1	180	24
CIT Total	0	2510	549	14	3073	0	191	1	1	193	68
NUPST	0	496	500	1	997	0	0	0	0	0	12
Total	0	3006	1049	15	4070	0	191	1	1	193	80
Paulson Creek											
#455											
03/25/79											
N6'-8'	0	64	105	0	169	0	4	0	0	4	16
N8'-10'	0	406	0	0	406	0	3	0	0	3	12
N10'-12'	0	4153	5	1	4159	0	798	0	0	798	24
CIT Total	0	4623	110	1	4734	0	805	0	0	805	52
NUPST	SNOW										(20)
Total	0	4623	110	1	4734	0	805	0	0	805	52 (72)

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Mink Creek											
#480											
03/26/79											
06'-8'	0	280	88	0	368	0	0	0	0	0	20
08'-10'	0	72	1	0	73	0	0	0	0	0	20
010'-12'	0	1500	0	0	1500	0	98	0	0	98	20
CIT Total	0	1852	89	0	1941	0	98	0	0	98	60
OUPST	0	1	234	0	235	0	0	0	0	0	20
Total	0	1853	323	0	2176	0	98	0	0	98	80
Erb Creek											
#604											
03/26/79											
N6'-8'	0	0	0	0	0	0	0	0	0	0	8
N8'-10'	0	592	116	2	710	0	0	0	0	0	24
N10'-12'	0	463	40	0	503	0	0	0	0	0	8
CIT Total	0	1055	156	2	1213	0	0	0	0	0	40
NUPST	0	518	26	20	564	0	0	0	0	0	8
Total	0	1573	182	22	1777	0	0	0	0	0	48
Totemoff Creek											
#621											
03/26/79											
N6'-8'	0	20	66	0	86	0	0	0	0	0	10
N8'-10'	0	570	183	0	753	0	0	0	0	0	10
N10'-12'	0	2012	415	0	2427	0	0	0	0	0	20
CIT Total	0	2602	664	0	3266	0	0	0	0	0	40
NUPST	0	1378	181	0	1559	0	0	0	0	0	20
Total	0	3980	845	0	4825	0	0	0	0	0	60

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	CHUM SALMON Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Square Feet
Bainbridge Creek											
#630											
03/27/79											
N8'-10'	0	117	78	0	195	0	0	0	0	0	10
N10'-12'	0	255	248	1	504	0	0	0	0	0	16
CIT Total	0	372	326	1	699	0	0	0	0	0	26
O8'-10'	0	0	925	245	1170	0	0	0	0	0	20
O10'-12'	0	0	28	2015	2043	0	0	0	0	0	20
Subtotal	0	0	953	2260	3213	0	0	0	0	0	40
OUPST	0	0	410	557	967	0	0	0	0	0	20
CUPST Total	0	0	1363	2817	4180	0	0	0	0	0	60
Total	0	372	1689	2818	4879	0	0	0	0	0	86
Claw Creek											
#632											
03/27/79											
N6'-8'	DRY										(8)
N8'-10'	DRY										(8)
N10'-12'	0	314	0	0	314	0	0	0	0	0	16
CIT Total	0	314	0	0	314	0	0	0	0	0	16 (32)
NUPST	0	27	3	2	32	0	0	0	0	0	8
Total	0	341	3	2	346	0	0	0	0	0	24 (40)
Falls Creek											
#673											
03/27/79											
N6'-8'	0	329	75	0	404	0	0	0	0	0	20
N8'-10'	0	797	10	0	807	0	0	0	0	0	20
N10'-12'	0	803	10	2	815	0	0	0	0	0	20
CIT Total	0	1929	95	2	2026	0	0	0	0	0	60
NUPST	0	4	3	8	15	0	0	0	0	0	20
Total	0	1933	98	10	2041	0	0	0	0	0	80

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Hayden Creek											
#677											
03/27/79											
N6'-8'	0	418	0	0	418	0	0	0	0	0	8
N8'-10'	0	263	5	1	269	0	0	0	0	0	8
N10'-12'	0	40	1	0	41	0	0	0	0	0	12
CIT Total	0	721	6	1	728	0	0	0	0	0	28
NUPST	0	1	29	0	30	0	0	0	0	0	12
Total	0	722	35	1	758	0	0	0	0	0	40
Wilby Creek											
#744											
04/03/79											
N6'-8'	0	1	0	0	1	0	0	0	0	0	10
N8'-10'	0	123	100	0	223	0	0	0	0	0	10
N10'-12'	0	0	0	0	0	0	0	0	0	0	10
CIT Total	0	124	100	0	224	0	0	0	0	0	30
NUPST	0	0	0	0	0	0	0	0	0	0	10
Total	0	124	100	0	224	0	0	0	0	0	40
Cabin Creek											
#747											
04/03/79											
N8'-10'	0	239	790	0	1029	0	0	0	0	0	20
N10'-12'	5	624	1945	0	2574	0	0	0	0	0	20
CIT Total	5	863	2735	0	3603	0	0	0	0	0	40
NUPST	0	604	1160	21	1785	0	0	0	0	0	20
Total	5	1467	3895	21	5388	0	0	0	0	0	60

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Shad Creek											
#749											
04/03/79											
N6'-8'	0	36	110	2	148	0	0	0	0	0	10
N8'-10'	0	481	295	1	777	0	0	0	0	0	10
N10'-12'	0	244	12	0	256	0	0	0	0	0	10
CIT Total	0	761	417	3	1181	0	0	0	0	0	30
N8'-10'	0	4	220	0	224	0	0	0	0	0	10
N10'-12'	0	0	0	0	0	0	0	0	0	0	10
NUPST	0	0	0	0	0	0	0	0	0	0	10
CUPST Total	0	4	220	0	224	0	0	0	0	0	30
Total	0	765	637	3	1405	0	0	0	0	0	60
Constantine Creek											
#815											
04/04/79											
N9'	0	135	0	0	135	0	0	0	0	0	20
N10'	0	663	0	0	663	0	0	0	0	0	20
N11'	0	1014	0	0	1014	0	0	0	0	0	20
N12'	0	359	134	1	494	0	24	1	0	25	20
N13'	0	659	224	0	883	0	24	0	0	24	20
CIT Total	0	2830	358	1	3189	0	48	1	0	49	100
O6'-8'	0	40	54	0	94	0	423	5	0	428	20
O8'-10'	0	0	17	0	17	0	233	5	0	238	20
O10'-12'	0	0	0	0	0	0	0	0	0	0	20
OUPST	0	0	0	0	0	0	0	0	0	0	20
CUPST Total	0	40	71	0	111	0	656	10	0	666	80
Total	0	2870	429	1	3300	0	704	11	0	715	180

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Cook Creek											
#828											
04/04/79											
N8'-10'	0	452	163	0	615	0	4	0	0	4	16
N10'-12'	0	550	86	1	637	0	0	0	0	0	12
CIT Total	0	1002	249	1	1252	0	4	0	0	4	28
06'-8'	0	283	284	2	569	0	0	0	0	0	12
08'-10'	0	339	60	1	400	0	2	0	0	2	8
010'-12'	0	367	315	5	687	0	0	0	0	0	12
OUPST	0	549	305	2	856	0	0	0	0	0	12
CUPST Total	0	1538	964	10	2512	0	2	0	0	2	44
Total	0	2540	1213	11	3764	0	6	0	0	6	72
Canoe Creek											
#850											
04/02/79											
N6'-8'	0	176	12	0	188	0	0	0	0	0	10
N8'-10'	0	487	238	1	726	0	0	0	0	0	10
N10'-12'	0	2150	125	0	2275	0	1	0	0	1	10
CIT Total	0	2813	375	1	3189	0	1	0	0	1	30
010'-12'	0	158	220	3	381	0	0	0	0	0	10
OUPST	0	634	176	160	970	0	1	0	0	1	10
CUPST Total	0	792	396	163	1351	0	1	0	0	1	20
Total	0	3605	771	164	4540	0	2	0	0	2	50

Appendix Table C. Brood year 1978 pink and chum salmon pre-emergent fry data, by stream name and number, date sampled, and sample zone, Prince William Sound, 1979 (continued).

Stream name, number, date and sample zone	PINK SALMON					CHUM SALMON					Square Feet
	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	Live Eggs	Live Fry	Dead Eggs	Dead Fry	Total	
Bernard Creek											
#861											
04/02/79											
N6'-8'	0	270	41	5	316	0	0	0	0	0	16
N8'-10'	0	206	118	0	324	0	0	0	0	0	16
N10'-12'	0	1798	256	0	2054	0	0	0	0	0	16
CIT Total	0	2274	415	5	2694	0	0	0	0	0	48
08'-10'	0	0	130	210	340	0	0	0	0	0	16
010'-12'	0	697	42	4	743	0	0	0	0	0	16
0 UPST	0	15	0	0	15	0	0	0	0	0	16
CUPST Total	0	712	172	214	1098	0	0	0	0	0	48
Total	0	2986	587	219	3792	0	0	0	0	0	96

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