ADF&G TECHNICAL DATA REPORT NO. 81
(Limited Distribution)

STATE OF ALASKA
Bill Sheffield, Governor

SH156.8 .M33 1983 no. 81

PRINCE WILLIAM SOUND SALMON TAGGING RESEARCH, 1981

By:
Michael L. McCurdy

January 1983

SH
156.8
.M33
no.18
1983

DEPARTMENT OF FISH AND GAME
3-2000, Juneau, Alaska 99802

Don Collinsworth
Acting Commissioner

ADF&G TECHNICAL DATA REPORTS

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

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

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

PRINCE WILLIAM SOUND SALMON TAGGING RESEARCH, 1981[1]

by

Michael L. McCurdy
Research Project Leader

Alaska Department of Fish and Game
Division of Commercial Fisheries
Cordova, Alaska 99574

1983

[1] This investigation was partially funded by the Federal Coastal Energy Impact Program under Contract No. NA-79-AA-CZ-113 as issued by the Alaska Department of Community and Regional Affairs.

TABLE OF CONTENTS

	Page
LIST OF TABLES	i
LIST OF FIGURES	ii
ABSTRACT	iii
INTRODUCTION	1
MATERIALS AND METHODS	1
RESULTS	3
DISCUSSION	3
ACKNOWLEDGMENTS	31
REFERENCE	32
APPENDIX A	33

LIST OF TABLES

Table		Page
1.	Tagging summary for the proposed Valdez Fisheries Development Association's Solomon Gulch hatchery, Port Valdez, Prince William Sound, 1981	4
2.	Tagging summary for the Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery, Unakwik Inlet, Prince William Sound, 1981	5
3.	Tagging summary for the proposed Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981	6
4.	Tagging summary for the Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981	7
5.	Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for the Valdez Fisheries Development Association's Solomon Gulch hatchery, Prince William Sound, 1981	11
6.	Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, conducted for the Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery, Prince William Sound, 1981	14
7.	Results of tagging experiments, in percentage of returns, by species, by tagging sites and dates, for Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981	19
8.	Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981	25

LIST OF FIGURES

Figure		Page
1.	Prince William Sound management area	2
2.	Approximate tectonic effects of the 1964 Alaska earthquake, expressed in feet of uplift or subsidence, on Prince William Sound	8
3.	Location of Valdez Fisheries Development Association's Solomon Gulch hatchery and associated tagging sites, Prince William Sound, 1981	10
4.	Location of Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery and associated tagging sites, Prince William Sound, 1981	13
5.	Location of Prince William Sound Aquaculture Corporation's proposed Esther Island hatchery and associated tagging sites, Prince William Sound, 1981	18
6.	Location of Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981	24

ABSTRACT

In 1981 a tag and tag recovery program was conducted by the Alaska Department of Fish and Game on adult Pacific salmon *(Oncorhynchus* sp*)* in Prince William Sound. The program's short term objective was to determine temporal and spatial relationships of wild and hatchery stocks in the general areas of existing hatcheries and temporal and spatial occurrences of wild stock in the general areas of proposed hatchery sites. The long term objective is to provide the Department with a basis for management techniques to prevent either under or overharvesting of either group of fish.

A total of 3,859 salmon was tagged with labeled and sequentially numbered Peterson disc tags. Salmon were captured with a purse seine operated from a chartered fishing vessel. Tag recovery was from the commercial fishery and spawning ground surveys; a total of 703 tags were recovered.

Four hatcheries were involved in this study; twenty tagging sites were used.

KEY WORDS: tag and tag recovery, adult salmon, wild and hatchery stocks, temporal and spatial occurrences, existing and proposed hatcheries.

INTRODUCTION

At present, most wild Pacific salmon *(Oncorhynchus* sp*)* stocks in Prince William Sound (Figure 1) are in a state of high productivity; stocks that suffered the depletive effects of the 1964 earthquake are increasing through protective management practices and favorable environmental factors. In conjunction with this upward trend in wild stock production, there is also a new and productive salmon hatchery program in Prince William Sound. The advent of this hatchery program presents a complex problem to the area fishery manager. It is very difficult to successfully manage for both wild and hatchery returns that will have similar timing and migration routes, but yet require different exploitation rates. At present, Alaska Department of Fish and Game (ADF&G) policy dictates that "if complexities arise in managing mixed stocks, including both hatchery and wild fish, it will be State policy to manage the collective resources in a manner that favors protection of the wild stocks." (ADF&G 1978). However, in reality, the resource manager must allow the private nonprofit hatchery owners and the common property fishery participants to harvest the hatchery returns in a timely manner to: (1) ensure a quality catch, and (2) allow a sufficient and timely escapement to the hatchery for its financial and brood stock requirements.

In order to provide a data base to solve this problem, it was considered necessary to conduct a tag and tag recovery program in the general areas of existing and proposed hatchery sites. The 1981 program involved four different hatcheries, which consisted of one public and three private nonprofit sites. The public site is Cannery Creek, now operational; this site is operated by the ADF&G, Fisheries Rehabilitation, Enhancement, and Development Division (F.R.E.D.). The private nonprofit sites are operated or proposed by the following corporations: (1) Solomon Gulch as proposed by the Valdez Fisheries Development Association (V.F.D.A.), (2) Esther Island facility as proposed by the Prince William Sound Aquaculture Corporation (P.W.S.A.C.), and (3) Port San Juan, Evans Island site, as operated by P.W.S.A.C.

MATERIALS AND METHODS

Salmon for tagging were captured using a purse seine operated from a chartered purse seine vessel. Each fish was tagged with a sequentially numbered 19 mm (3/4 in) diameter Peterson disc tag. Only species was recorded along with tagging site and date, i.e. no data were taken regarding age, weight, length, or sex. Fish for tagging were captured at established commercial fishery sites only. Tagging was conducted 5 days per week on a Wednesday through Sunday basis. With the exception of special openings or closures, the Prince William Sound fishery is conducted Monday through Friday. Tagging on weekends was conducted to attain a lead of at least 24 hours on migration routes before any possible fishery interceptions could occur.

Tag recoveries were accomplished via the commercial fishery and spawning ground escapement surveys. Fishermen were provided with data recording forms and were alerted to the program through P.W.S.A.C.'s Newsletter and news releases through

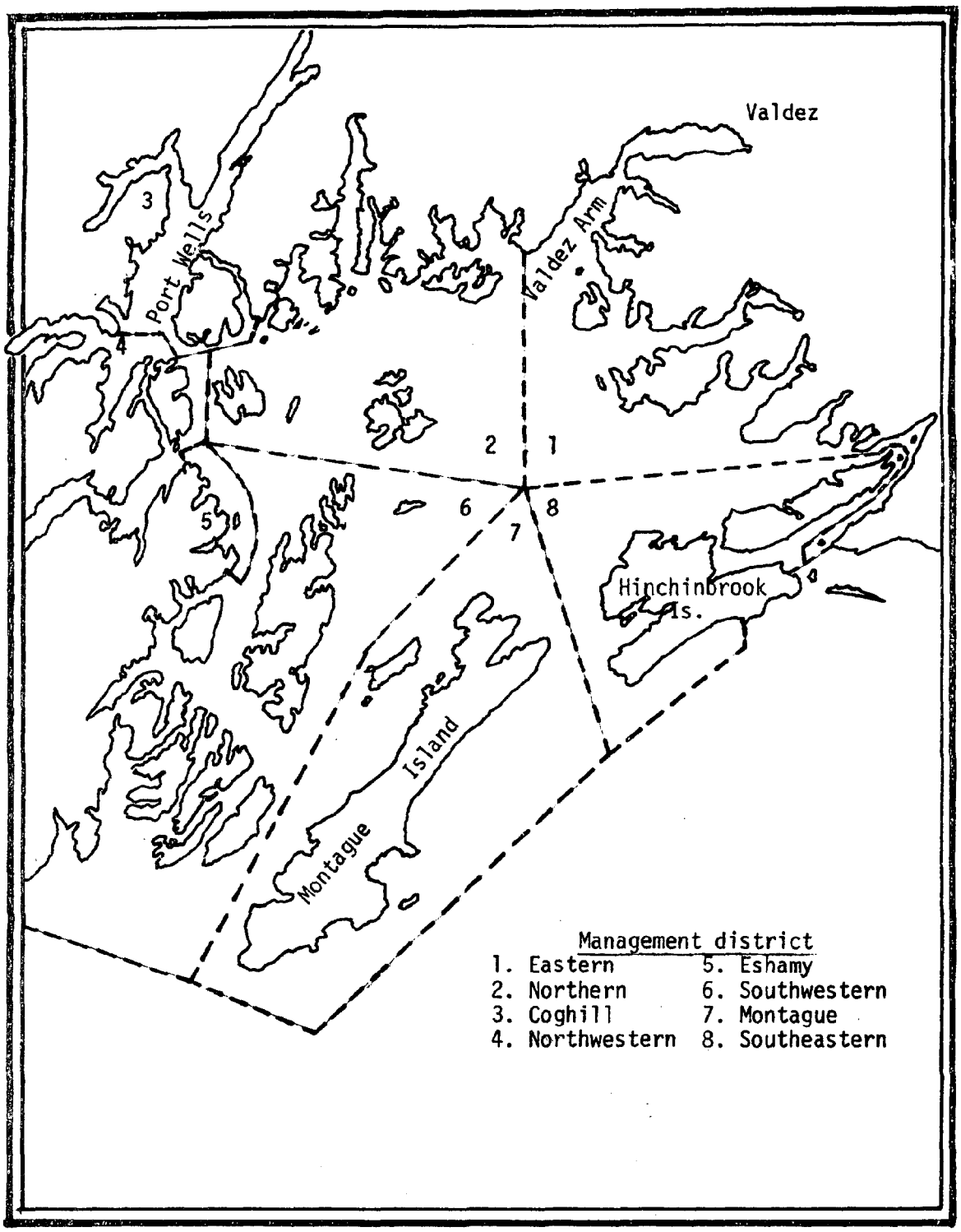

Figure 1. Prince William Sound management area.

the local newspaper and radio station. They were requested to return their recovery data at their earliest convenience. The stream tag recovery segment was conducted by two, two-man Commercial Fisheries Division crews who used the State vessel MONTAGUE as a base of operations. In addition, F.R.E.D. Division, P.W.S.A.C., V.F.D.A., Nerka, Inc., U.S. Forest Service, and Commercial Fisheries Division weir personnel also conducted ground stream surveys. This effort resulted in somewhat over 200 streams being surveyed at least two to three times for the presence of tagged salmon. A listing of the Prince William Sound salmon streams by district and statistical area is given in Appendix A.

All data resulting from this program were entered into the Prince William Sound salmon computer file for future use regarding fishery management and modeling.

RESULTS

Over the duration of the program a total of 20 different sites for all of the hatchery sites involved was used to evaluate presence of wild and hatchery stocks. A total of 3,448 pink salmon *(O. gorbuscha)*, 363 chum salmon *(O. keta)*, 18 sockeye salmon *(O. nerka)*, and 30 coho salmon *(O. kisutch)* was tagged during the program. No chinook salmon *(O. tshawytscha)* were tagged. Tables 1 through 4 show tagging summaries, by species, tagging site, and date for each of the hatchery sites.

Tag recovery results for each site and species are presented for each tagging experiment. These results are expressed as percentage of return by district. The percentages are further broken down into catch and individual stream recoveries which represent their respective portions of the total number of recoveries from the experiment involved. The total district figures represent 100% of the recoveries; individual catch and/or stream recoveries do not always add to 100% as a result of rounding.

DISCUSSION

As mentioned above, no extensive post-1964 earthquake odd-year tagging programs have been conducted in Prince William Sound. This is a major factor for data comparison for Prince William Sound pink and chum salmon stocks because of the following reasons:

1) The 1964 Alaska earthquake greatly altered the Sound's topography through severe tectonic disturbances, which resulted in land mass vertical movements ranging from +32 feet to -6 feet (Figure 2).

2) Results of tectonic movements ranged from the complete removal of established intertidal spawning grounds from tidal influences through land uplift to the complete loss of established intertidal and freshwater spawning grounds through the continuous inundation of saltwater as effected by land subsidence.

Table 1. Tagging summary for the proposed Valdez Fisheries Development Association's Solomon Gulch hatchery, Port Valdez, Prince William Sound, 1981.

Tag site	Date(s)	Species					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Point Lowe	8/05	0	0	3	49	21	73
	8/06	0	0	18	147	98	263
	Total	0	0	21	196	119	336
20 Mile Beach	8/06	0	0	1	4	0	5
Total		0	0	22	200	119	341

Table 2. Tagging summary for the Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery, Unakwik Inlet, Prince William Sound, 1981.

Tag site	Date(s)	Species					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Irish Cove, Glacier Island	7/20	0	0	0	92	0	92
Granite Point	7/20	0	2	0	85	3	90
Unakwik Point	7/20	0	0	0	7	27	34
	7/21	0	0	0	17	13	30
	Total	0	0	0	24	40	64
Kiniklik	7/22	0	0	0	73	6	79
Point Pellew	7/21	0	1	0	11	0	12
Mueller Cove	7/20	0	1	0	111	9	121
Siwash Bay Entrance	8/08	0	0	0	15	1	16
Eastside Unakwik Inlet	7/21	0	0	0	57	48	105
Total		0	4	0	468	107	579

Table 3. Tagging summary for the proposed Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981.

Tag site	Date(s)	Species					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Hodgkins Point	7/25	0	1	0	35	4	40
	7/26	0	0	1	107	9	117
	Total	0	1	1	142	13	157
Culross Island	7/22	0	2	0	188	16	206
	7/23	0	3	2	422	48	475
	7/25	0	0	0	139	14	153
	7/26	0	0	0	64	12	76
	Total	0	5	2	813	90	910
Total		0	6	3	955	103	1,067

Table 4. Tagging summary for the Prince William Sound Aquaculture Association's San Juan hatchery, Prince William Sound, 1981.

Tag site	Date(s)	Species					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Chenega Island	7/29	0	1	0	176	7	184
South Knight Island Passage	7/30	0	0	0	27	0	27
Fox Farm	7/31	0	1	1	328	5	335
	8/16	0	0	0	251	5	256
	Total	0	1	1	579	10	591
Middle Cape	8/01	0	0	4	313	3	320
Squirrel Bay	7/31	0	0	0	65	0	65
	8/01	0	0	0	164	0	164
	Total	0	0	0	229	0	229
Bishop Rock	7/30	0	1	0	4	0	5
	8/14	0	5	0	284	12	301
	Total	0	6	0	288	12	306
Sawmill Bay	8/15	0	0	0	201	2	203
Shelter Bay	7/30	0	0	0	12	0	12
Total		0	8	5	1,825	34	1,872

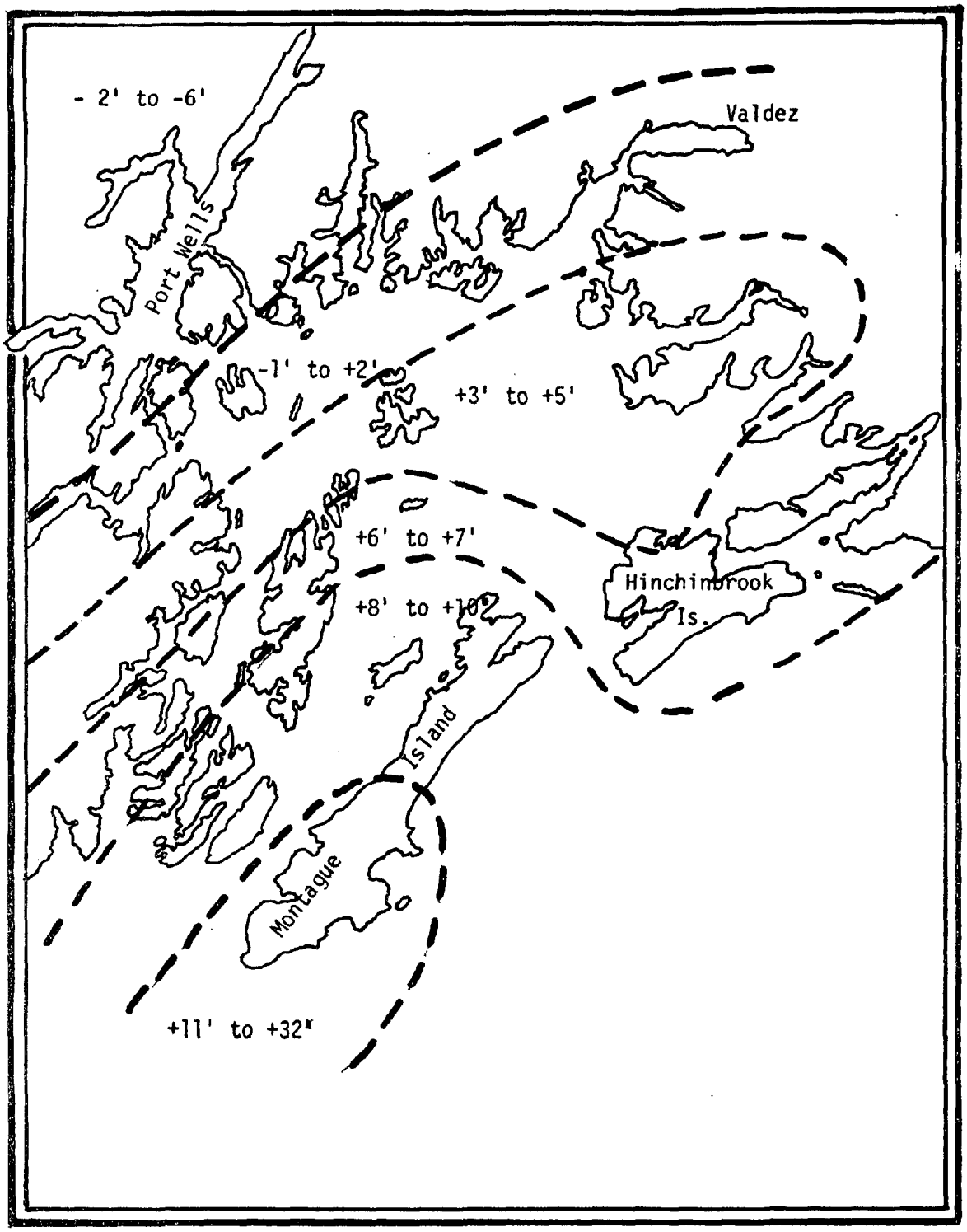

Figure 2. Approximate tectonic effects of the 1964 Alaska earthquake, expressed in feet of uplift or subsidence, on Prince William Sound.

3) The loss of established intertidal spawning grounds greatly affected the Sound's even- and odd-year pink salmon stocks in that prior to the earthquake even-year pink salmon stocks experienced greater productivity than odd-year stocks as a result of different spawner distribution, i.e., an average of 75% of even-year pink salmon spawners utilized intertidal spawning grounds while odd-year spawners only averaged 50%, the consequence of this was a greater loss of established spawning grounds to even-year pink salmon.

4) The altered intertidal area resulted in reversed productivity rates to the favor of odd-year stocks which utilize to a greater extent upstream or freshwater spawning grounds, that experienced far less disturbances as a result of the earthquake.

5) The earthquake also affected return timing of both stocks of fish. Consequently, as a result of the above factors, comparisons between pre- and post-earthquake pink stocks are difficult. The chum salmon stocks were also affected by the earthquake; the results of which were lowered productivity rates overall. Some of these effects have been subtle and slow in coming and are not understood at this time. The Sound's major sockeye salmon stocks seem to be the least affected of the three species as many of these stocks spawn in lakeshore springs.

Figures 3 through 6 show the hatchery sites, proposed and existing, and their associated tagging sites. Tables 5 through 8 show the results of each of the tagging experiments, by hatchery site, dates, species, and type and location of tag recovery.

As the reader studies the data regarding pink salmon, it will soon become apparent that not only will the area management staff have to manage a particular hatchery for its stocks and wild stocks occurring in the area in question, but will also have to keep in mind that other hatchery stocks are occurring in that particular area at the same time. To what degree this phenomenon occurs in the future and what management problems may arise with pink salmon or other hatchery raised species remains to be seen as the various hatcheries come into full production.

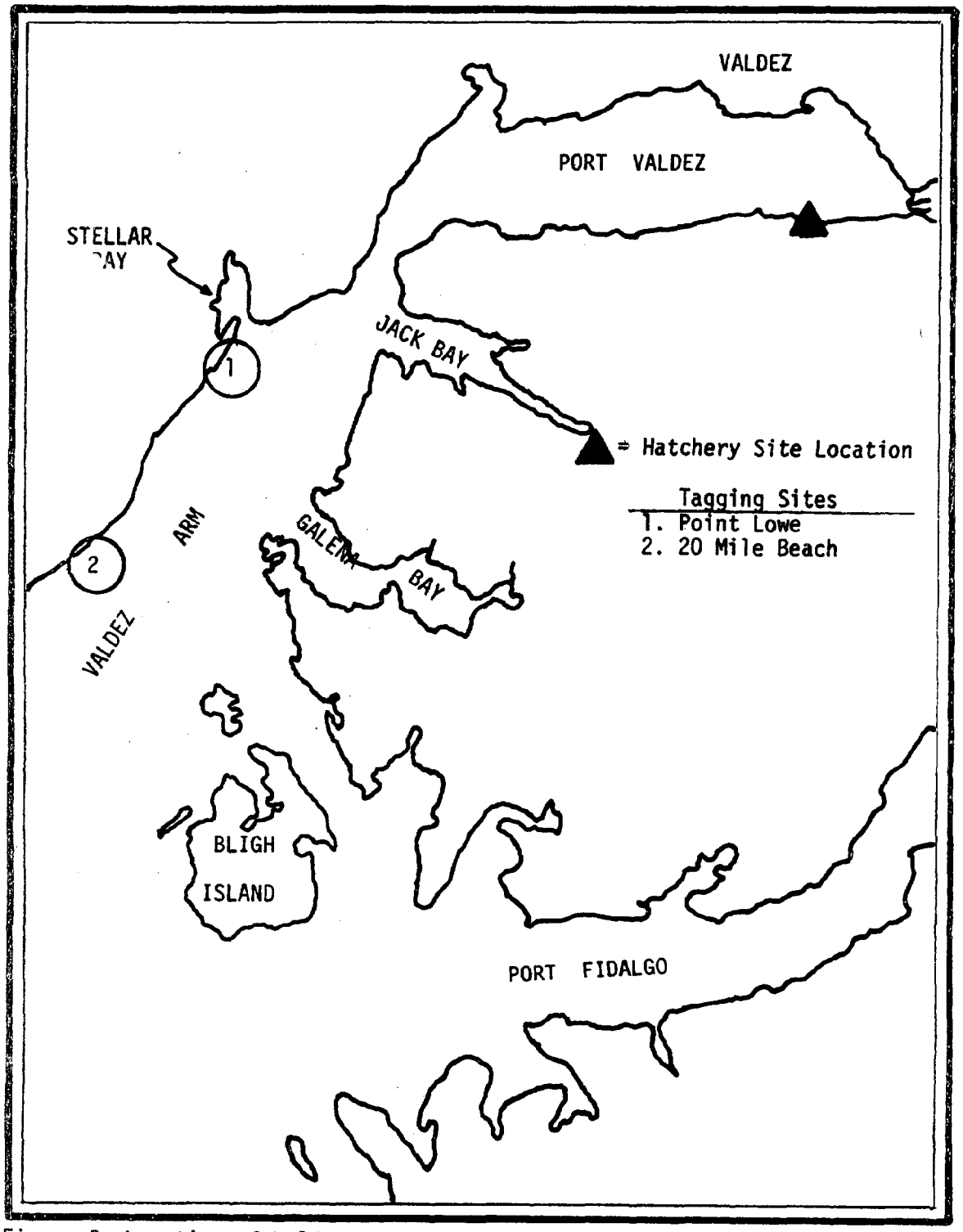

Figure 3. Location of Valdez Fisheries Development Association's Solomon Gulch hatchery and associated tagging sites, Prince William Sound, 1981.

Table 5. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for the Valdez Fisheries Development Association's Solomon Gulch hatchery, Prince William Sound, 1981.

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Point Lowe		8/05				
No. tagged	50					
No. recovered	11					
% recovered	22.0					
District						
Eastern	90.0%		Johnson Cove	18.2	Donaldson Cr.	9.1
			Galena Bay	18.2	Levshakoff Cr.	27.3
			Sawmill/S.Valdez	9.1	Stellar Creek	9.1
Northern	9.1%				Wells River	9.1
		8/06				
No. tagged	147					
No. recovered	15					
% recovered	10.2					
District						
Eastern	100.0%		Johnson Cove	20.0	Duck River	6.7
			Galena Bay	6.7	Stellar Creek	33.3
			Sawmill/S.Valdez	33.3		
20 Mile Beach		8/06				
No. tagged	4					
No. recovered	1					
% recovered	25.0					
District						
Eastern	100.0%				Stellar Creek	100.0

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Point Lowe		8/05				
No. tagged	20					
No. recovered	1					
% recovered	5.0					
District						
Eastern	100.0%		Sawmill/S.Valdez	100.0		

-Continued-

Table 5. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for the Valdez Fisheries Development Association's Solomon Gulch hatchery, Prince William Sound, 1981 (continued).

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Point Lowe (Continued)		8/06				
No. tagged	98					
No. recovered	8					
% recovered	8.2					
District						
Eastern	87.5%				Sunny River	12.5
					Crooked Creek	75.0
Northern	12.5%				Siwash Creek	12.5

			Coho Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Point Lowe		8/05				
No. tagged	3					
No. recovered	0					
% recovered	0.0					
		8/06				
No. tagged	18					
No. recovered	1					
% recovered	5.6					
District						
Eastern	100.0%		Port Valdez	100.0		
20 Mile Beach		8/06				
No. tagged	1					
No. recovered	0					
% recovered	0.0					

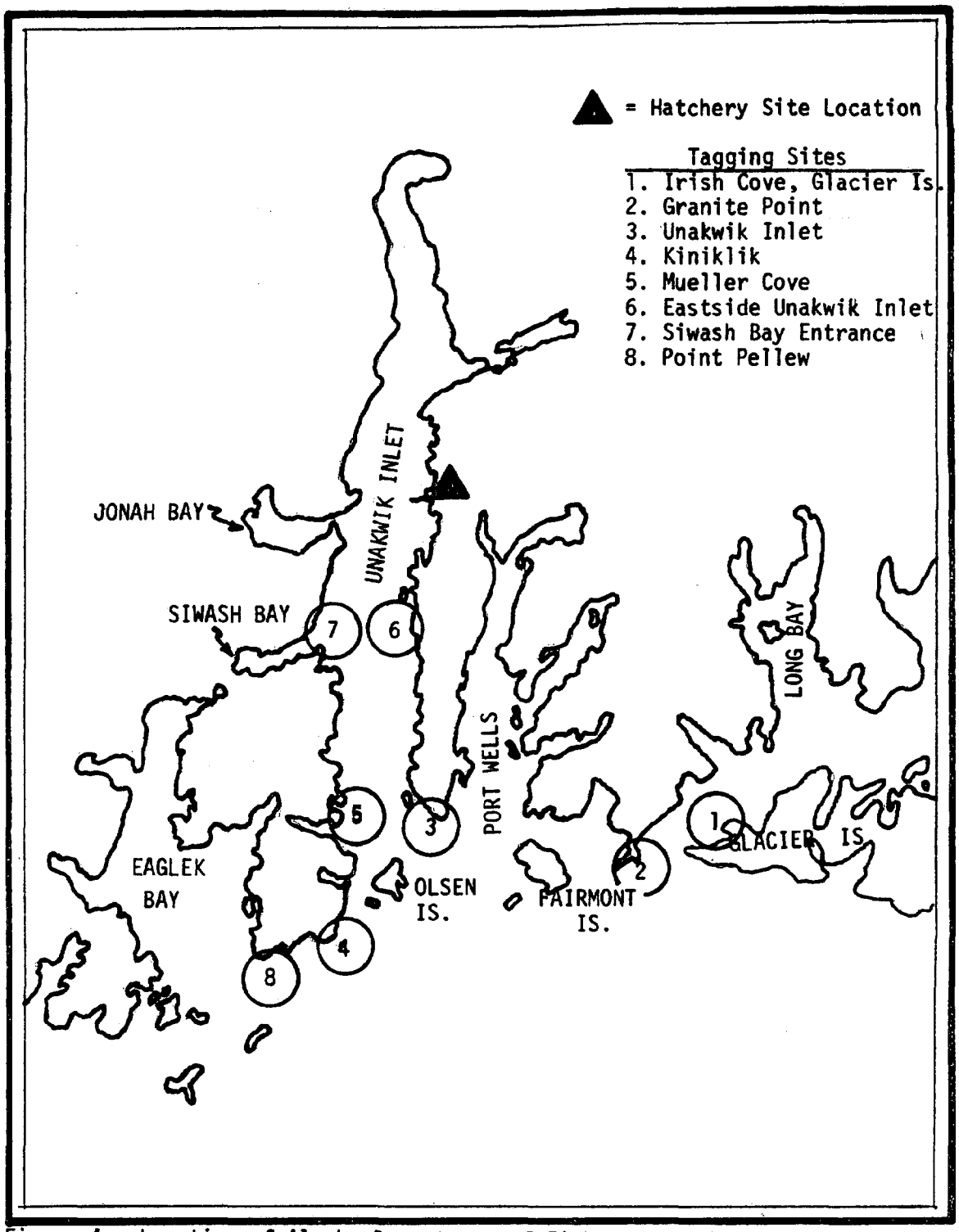

Figure 4. Location of Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery and associated tagging sites, Prince William Sound, 1981.

Table 6. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, conducted for the Alaska Department of Fish and Game's F. R. E. D. Division Cannery Creek hatchery, Prince William Sound, 1981.

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Irish Cove, Glacier Island		7/20				
No. tagged	92					
No. recovered	4					
% recovered	4.3					
District						
Eastern	25.0%		Galena Bay	25.0		
Northern	75.0%		Kiniklik	50.0	Wells River	25.0
Unakwik Point		7/20				
No. tagged	7					
No. recovered	3					
% recovered	42.9					
District						
Northern	100.0%		Kiniklik	33.3	Siwash River	33.3
			Mid Unakwik	33.3		
		7/21				
No. tagged	17					
No. recovered	4					
% recovered	23.5					
District						
Northern	75.0%		Unakwik Point	25.0	Jonah Creek	25.0
			Mid Unakwik	25.0		
Coghill	25.0%		Esther Island/ College Fiord	25.0		
Kiniklik		7/22				
No. tagged	73					
No. recovered	15					
% recovered	20.5					
District						
Northern	86.7%		Unakwik Point	6.7	Wells River	6.7
			Kiniklik	26.7	Cannery Creek	13.3
			Point Pellew	13.3	Jonah Creek	6.7
			Mid Unakwik	6.7	Siwash River	6.7
Coghill	13.3%		Esther Island/ College Fiord	13.3		

-Continued-

Table 6. Results of tagging experiments, in percentage of return, by species, tagging sites and dates, conducted for the Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery, Prince William Sound, 1981 (continued).

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Point Pellew		7/21				
No. tagged	11					
No. recovered	4					
% recovered	36.4					
District						
Northern	75.0%		Unakwik Point	25.0		
			Kiniklik	50.0		
Coghill	25.0%				Swanson Creek	25.0
Mueller Cove		7/20				
No. tagged	111					
No. recovered	18					
% recovered	16.2					
District						
Northern	100.0%		Unakwik Point	11.1	Backyard Creek	16.7
			Kiniklik	38.9	Wells River	11.1
			Mid Unakwik	5.6	Cannery Creek	11.1
					Unakwik Creek	5.6
Eastside Unakwik Inlet		7/21				
No. tagged	57					
No. recovered	4					
% recovered	7.0					
District						
Northern	75.0%		Mid Unakwik	25.0	Jonah Creek	50.0
Coghill	25.0%		Esther Island/ College Fiord	25.0		
Granite Point		7/20				
No. tagged	85					
No. recovered	10					
% recovered	11.8					
District						
Northern	100.0%		Unakwik Point	10.0	Backyard Creek	10.0
			Kiniklik	50.0	Wells River	20.0
					Jonah Creek	10.0
Siwash Bay Entrance		8/08				
No. tagged	15					
No. recovered	0					
% recovered	0.0					

-Continued-

Table 6. Results of tagging experiments, in percentage of return, by species, tagging sites and dates, conducted for the Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery, Prince William Sound, 1981 (continued).

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Unakwik Point		7/20				
No. tagged	27					
No. recovered	5					
% recovered	18.5					
District						
Northern	100.0%		Kiniklik	20.0	Siwash River	20.0
			Jonah Bay	20.0		
			Mid Unakwik	40.0		
		7/21				
No. tagged	13					
No. recovered	6					
% recovered	46.2					
District						
Northern	100.0%		Point Pellew	16.7	Cannery Creek	16.7
			Mid Unakwik	50.0	Jonah Creek	16.7
Kiniklik		7/22				
No. tagged	6					
No. recovered	2					
% recovered	33.3					
District						
Northern	100.0%		Kiniklik	100.0		
Mueller Cove		7/20				
No. tagged	9					
No. recovered	0					
% recovered	0.0					
Eastside Unakwik Inlet		7/21				
No. tagged	48					
No. recovered	8					
% recovered	16.7					
District						
Northern	100.0%		Southside Glacier Island	25.0	Jonah Creek	12.5
					Siwash River	12.5
			Unakwik Point	12.5		
			Kiniklik	12.5		
			Mid Unakwik	25.0		
Granite Point		7/20				
No. tagged	3					
No. recovered	0					
% recovered	0.0					

-Continued-

Table 6. Results of tagging experiments, in percentage of return, by species, tagging sites and dates, conducted for the Alaska Department of Fish and Game's F.R.E.D. Division Cannery Creek hatchery, Prince William Sound, 1981 (continued).

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Siwash Bay Entrance		8/08				
No. tagged	1					
No. recovered	1					
% recovered	100.0					
District						
Northern	100.0%				Unakwik Creek	100.0

			Sockeye Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Point Pellew		7/21				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
Mueller Cove		7/20				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
Granite Point		7/20				
No. tagged	2					
No. recovered	0					
% recovered	0.0					

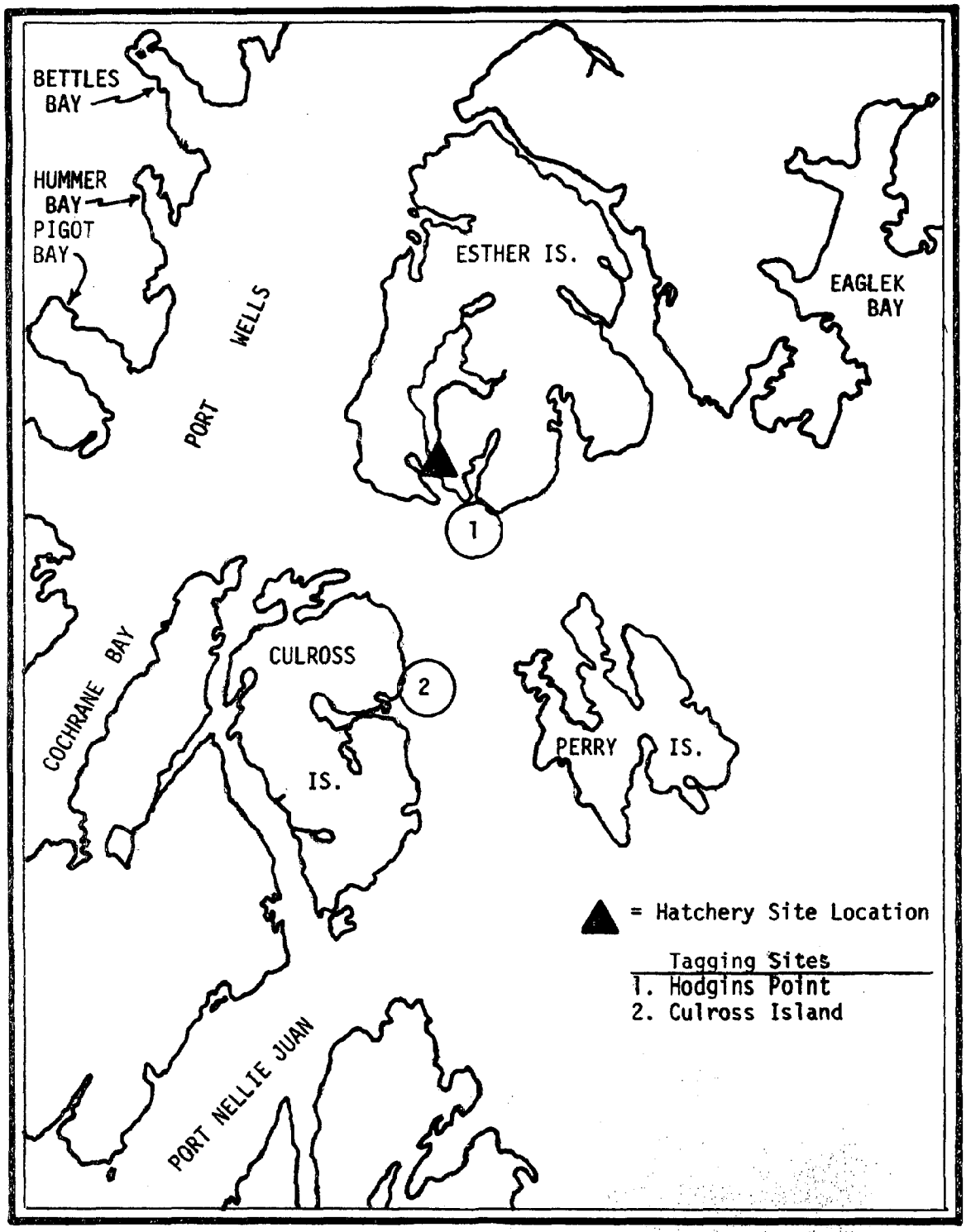

Figure 5. Location of Prince William Sound Aquaculture Corporation's proposed Esther Island hatchery and associated tagging sites, Prince William Sound, 1981.

Table 7. Results of tagging experiments, in percentage of returns, by species, by tagging sites and dates, for Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981.

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Hodgkins Point		7/25				
No. tagged	35					
No. recovered	4					
% recovered	11.4					
District						
Coghill	50.0%		Esther Island/ College Fiord	25.0	Mill Creek	25.0
Northwestern	25.0%				Wickett Creek	25.0
Southeastern	25.0%		Hawkins Island	25.0		
		7/26				
No. tagged	107					
No. recovered	12					
% recovered	11.2					
District						
Coghill	66.7%		Esther Island/ College Fiord	25.0	Swanson Creek	33.3
					Coghill River	8.3
Northwestern	25.0%		Shipyard	8.3	Paulson Creek	16.7
Southwestern	8.3%		Eastside Chenega	8.3		
Culross Island		7/22				
No. tagged	188					
No. recovered	26					
% recovered	13.8					
District						
Northern	11.5%		Kiniklik	3.8		
			Point Pellew	3.8		
			Mid Unakwik	3.8		
Coghill	53.8%		Esther Island/ College Fiord	34.6	Hobo Creek	3.8
					Swanson Creek	15.4
Northwestern	15.4%				Paulson Creek	3.8
					Mink Creek	11.5
Southwestern	19.2%		Eastside Chenega	3.8		
			Flemming Island/ Bainbridge/ Point Countess	3.8		
			Shelter Bay	3.8		
			Eastshore Knight Island	7.7		

-Continued-

Table 7. Results of tagging experiments, in percentage of returns, by species, by tagging sites and dates, for Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981 (continued).

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Culross Island (Continued)						
		7/23				
No. tagged	422					
No. recovered	58					
% recovered	13.7					
District						
Eastern	5.2%		Port Gravina	3.4		
			Boulder Bay	1.7		
Northern	6.9%		Unakwik Point	1.7	Wells River	1.7
			Mid Unakwik	3.4		
Coghill	60.3%		Esther Island/ College Fiord	20.7	Hobo Creek	1.7
					Mill Creek	6.9
			Westside Port Wells	5.2	Meacham Creek	1.7
					Swanson Creek	20.7
					Coghill River	3.4
Northwestern	12.1%				Logging Camp Cr.	1.7
					Paulson Creek	5.2
					Cochran Creek	3.4
					Mink Creek	1.7
Southwestern	13.8%		Eastside Chenega	3.4	Larsen Creek	1.7
			Flemming Island/ Bainbridge/ Point Countess	1.7		
			Snug Harbor/Port Helen	1.7		
			Shelter Bay	1.7		
			Fox Farm/ Elrington Pass	1.7		
			Eastshore Knight Island	1.7		
Southeastern	1.7%		Anderson Bay/ Double Bay	1.7		
		7/25				
No. tagged	139					
No. recovered	18					
% recovered	12.9					
District						
Coghill	61.1%		Esther Island/ College Fiord	33.3	Meacham Creek	5.6
					Swanson Creek	22.2
Northwestern	22.2%		Eastside Culross	5.6	Culross Creek	11.1
					McClure Creek	5.6
Eshamy	5.6%				J.D.Solf Creek	5.6

-Continued-

Table 7. Results of tagging experiments, in percentage of returns, by species, by tagging sites and dates, for Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981 (continued).

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Culross Island (Continued)						
Southwestern	5.6%		Eastside Chenega	5.6		
Southeastern	5.6%		Port Etches	5.6		
		7/26				
No. tagged	64					
No. recovered	14					
% recovered	21.9					
District						
Coghill	92.9%		Esther Island/ College Fiord	42.9	Hobo Creek	7.1
					Swanson Creek	35.7
					Coghill River	7.1
Northwestern	7.1%				Cove Creek	7.1

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Hodgkins Point		7/25				
No. tagged	4					
No. recovered	0					
% recovered	0.0					
		7/26				
No. tagged	9					
No. recovered	2					
% recovered	22.2					
District						
Coghill	100.0%		Esther Island/ College Fiord	100.0		
Culross Island		7/22				
No. tagged	16					
No. recovered	3					
% recovered	18.8					
District						
Coghill	100.0%				Mill Creek	33.3
					Meacham Creek	33.3
					Swanson Creek	33.3
		7/23				
No. tagged	48					
No. recovered	10					
% recovered	20.8					

-Continued-

Table 7. Results of tagging experiments, in percentage of returns, by species, by tagging sites and dates, for Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981 (continued).

Tag sites		Tagging Dates	Chum Salmon Catch Area	%	Escapement Stream	%
Culross Island (Continued)						
District						
Northern	10.0%		Kiniklik	10.0		
Coghill	90.0%		Esther Island/ College Fiord	50.0	Mill Creek	20.0
					Hummer Creek	10.0
					Swanson Creek	10.0
		7/25				
No. tagged	14					
No. recovered	1					
% recovered	7.1					
District						
Southwestern	100.0%		Sawmill Bay	100.0		
		7/26				
No. tagged	12					
No. recovered	3					
% recovered	25.0					
District						
Coghill	66.7%				Mill Creek	33.3
					Swanson Creek	33.3
Southwestern	33.3%		Eastside Chenega	33.3		

Tag sites		Tagging Dates	Sockeye Salmon Catch Area	%	Escapement Stream	%
Hodgkins Point		7/25				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
Culross Island		7/22				
No. tagged	2					
No. recovered	0					
% recovered	0.0					
		7/23				
No. tagged	3					
No. recovered	0					
% recovered	0.0					

-Continued-

Table 7. Results of tagging experiments, in percentage of returns, by species, by tagging sites and dates, for Prince William Sound Aquaculture Corporation's Esther Island hatchery, Prince William Sound, 1981 (continued).

			Coho Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Hodgkins Point		7/26				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
Culross Island		7/23				
No. tagged	2					
No. recovered	0					
% recovered	0.0					

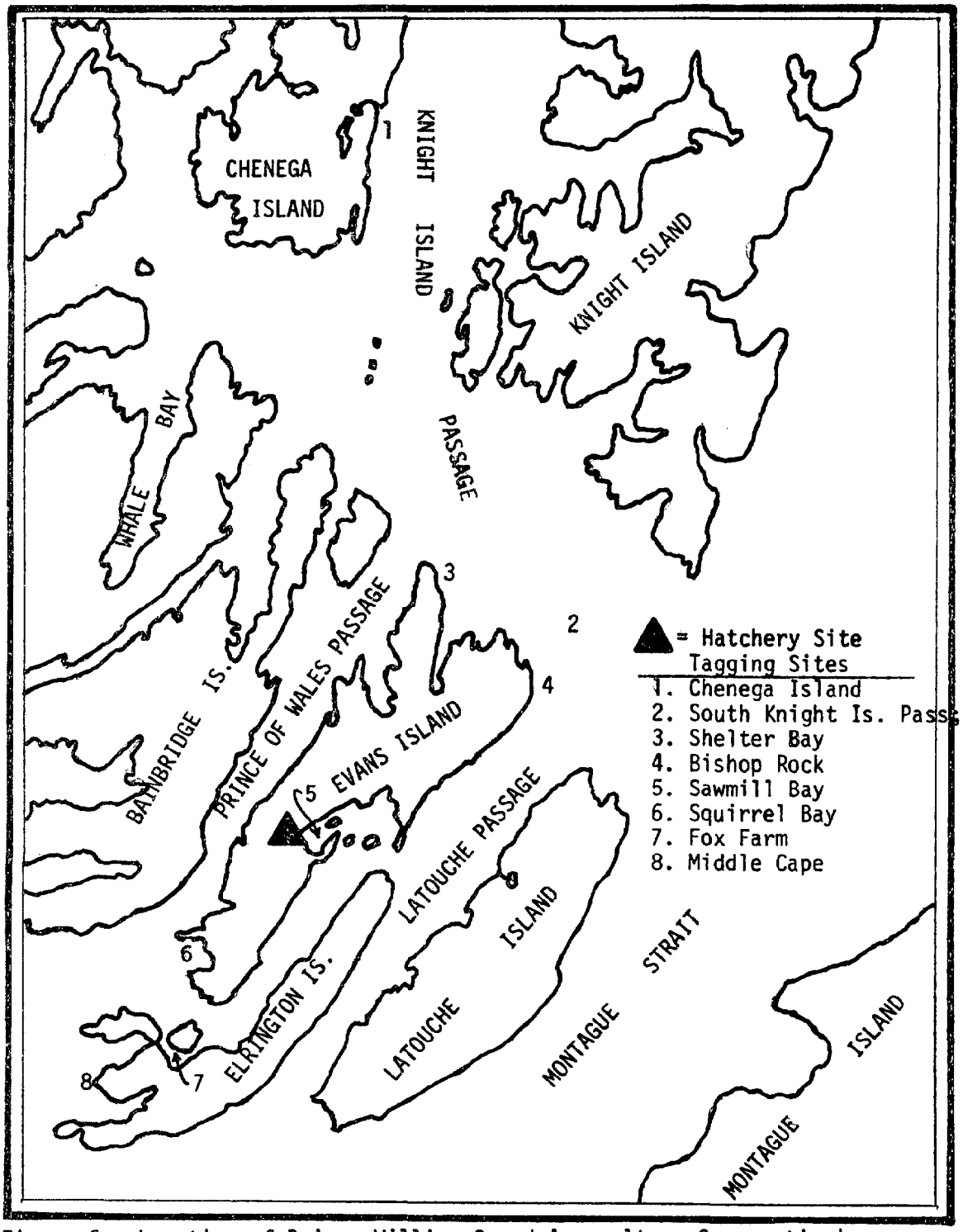

Figure 6. Location of Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981.

Table 8. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981.

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Chenega Island		7/29				
No. tagged	176					
No. recovered	32					
% recovered	18.2					
District						
Northern	3.1%		Kiniklik	3.1		
Coghill	6.3%				Harrison Creek	3.1
					Hobo Creek	3.1
Southwestern	84.4%		Eastside Chenega	59.4	Erb Creek	3.1
			Shelter Bay	6.3	Bainbridge Cr.	3.1
			Eastside Latouche	3.1	Halverson Creek	3.1
			Sawmill Bay	3.1		
			Fox Farm/ Elrington Pass	3.1		
Southeastern	6.3%		Hawkins Island	3.1		
			Port Etches	3.1		
South Knight Island Passage		7/30				
No. tagged	27					
No. recovered	7					
% recovered	25.9					
District						
Southwestern	100.0%		Eastside Chenega	28.6		
			Shelter Bay	14.3		
			Sawmill Bay	42.9		
			Fox Farm/ Elrington Pass	14.3		
Fox Farm		7/31				
No. tagged	328					
No. recovered	58					
% recovered	17.7					
District						
Eastern	10.3%		Porcupine Point	1.7	Gladhough Cr.	1.7
			Jack Bay	1.7		
			Sawmill/S.Valdez	5.2		
Coghill	1.7%		Esther Island/ College Fiord	1.7		
Northwestern	1.7%				Culross Creek	1.7

-Continued-

Table 8. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981 (continued).

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Fox Farm (Continued)						
District						
Southwestern	84.5%		Eastside Chenega	8.6	Bainbridge Cr.	1.7
			Shelter Bay	3.4	Claw Creek	1.7
			Bishop Rock to Sawmill Bay	3.4	Johnson Creek	1.7
					Larsen Creek	22.4
			Fox Farm/ Elrington Pass	5.2		
			Sawmill Bay	34.5		
			Prince of Wales	1.7		
Southeastern	1.7%		Hawkins Island	1.7		
		8/16				
No. tagged	251					
No. recovered	66					
% recovered	26.3					
District						
Southwestern	97.0%		Sawmill Bay	66.7	Pablo Creek	3.0
					Falls Creek	1.5
					Larsen Creek	25.8
Montague	1.5%				Swamp Creek	1.5
Southeastern	1.5%				Cook Creek	1.5
Middle Cape		8/01				
No. tagged	313					
No. recovered	55					
% recovered	17.6					
District						
Eastern	16.4%		Galena Bay	3.6	Irish Creek	3.6
			Port Fidalgo	1.8	Gregorieff Cr.	1.8
			Jack Bay	1.8		
			Sawmill/S.Valdez	3.6		
Northern	3.6%		Kiniklik	1.8	Cannery Creek	1.8
Southwestern	72.7%		Eastside Chenega	7.3	Totemoff Creek	1.8
			Snug Harbor/ Port Helen	3.6	Johnson Creek	1.8
					Ashton Creek	1.8
			Shelter Bay	7.3	Larsen Creek	16.4
			Bishop Rock to Sawmill Bay	1.8		
			Middle Cape/ South Twin Bay	3.6		
			Sawmill	20.0		
			Fox Farm/ Elrington Pass	7.3		

-Continued-

Table 8. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981 (continued).

Tag sites		Tagging Dates	Pink Salmon Catch Area	%	Pink Salmon Escapement Stream	%
Middle Cape (Continued)						
District						
Montague	3.6%		North Montague	1.8	Swamp Creek	1.8
Southeastern	3.6%		Hawkins	3.6		
Squirrel Bay		7/31				
No. tagged	65					
No. recovered	14					
% recovered	21.5					
District						
Coghill	7.1%				Swanson Creek	7.1
Southwestern	92.9%		Eastside Chenega	21.4	Larsen Creek	7.1
			Middle Cape/ South Twin Bay	7.1		
			Sawmill Bay	28.6		
			Fox Farm/ Elrington Pass	21.4		
			Prince of Wales	7.1		
		8/01				
No. tagged	164					
No. recovered	28					
% recovered	17.1					
District						
Eastern	3.6%		Galena Bay	3.6		
Southwestern	92.9%		Eastside Chenega	17.9	Pablo Creek	3.6
			Snug Harbor/ Port Helen	3.6	Larsen Creek	7.1
			Shelter Bay	3.6		
			Bishop Rock to Sawmill Bay	3.6		
			Sawmill Bay	46.4		
			Fox Farm/ Elrington Pass	7.1		
Southeastern	3.6%		Anderson Bay/ Double Bay	3.6		
Bishop Rock		7/30				
No. tagged	4					
No. recovered	1					
% recovered	25.0					
District						
Southwestern	100.0%		Bishop Rock to Sawmill Bay	100.0		

-Continued-

Table 8. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981 (continued).

			Pink Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Bishop Rock (Continued)		8/14				
No. tagged	284					
No. recovered	69					
% recovered	24.3					
District						
Eastern	2.9%				Kirkwood Creek	1.4
					Indian Creek	1.4
Northwestern	2.9%				Culross Creek	1.4
					McClure Creek	1.4
Southwestern	94.2%		Sawmill Bay	72.5	Larsen Creek	21.7
Sawmill Bay		8/15				
No. tagged	201					
No. recovered	95					
% recovered	47.3					
District						
Northern	2.1%				Fin Creek	1.1
					Cannery Creek	1.1
Southwestern	97.9%		Sawmill Bay	69.5	Ashton Creek	1.1
					Larsen Creek	27.4
Shelter Bay		7/30				
No. tagged	12					
No. recovered	1					
% recovered	8.3					
District						
Southwestern	100.0%		Sawmill Bay	100.0		

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Chenega Island		7/29				
No. tagged	10					
No. recovered	1					
% recovered	10.0					
District						
Eshamy	100.0%				Eshamy River	100.0

-Continued-

Table 8. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981 (continued).

			Chum Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Fox Farm		7/31				
No. tagged	5					
No. recovered	0					
% recovered	0.0					
		8/16				
No. tagged	5					
No. recovered	1					
% recovered	20.0					
District						
Southwestern	100.0%				Larsen Creek	100.0
Middle Cape		8/01				
No. tagged	3					
No. recovered	0					
% recovered	0.0					
Bishop Rock		8/14				
No. tagged	12					
No. recovered	2					
% recovered	16.7					
District						
Eastern	50.0%				Sunny River	50.0
Southwestern	50.0%				Larsen Creek	50.0
Sawmill Bay		8/15				
No. tagged	2					
No. recovered	0					
% recovered	0.0					

			Sockeye Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Chenega Island		7/29				
No. tagged	1					
No. recovered	0					
% recovered	0.0					

-Continued-

Table 8. Results of tagging experiments, in percentage of returns, by species, tagging sites and dates, for Prince William Sound Aquaculture Corporation's San Juan hatchery, Prince William Sound, 1981 (continued).

			Sockeye Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Fox Farm		7/31				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
Bishop Rock		7/30				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
		8/14				
No. tagged	5					
No. recovered	1					
% recovered	20.0					
District						
Eshamy	100.0%				Eshamy River	100.0

			Coho Salmon			
		Tagging	Catch		Escapement	
Tag sites		Dates	Area	%	Stream	%
Fox Farm		7/31				
No. tagged	1					
No. recovered	0					
% recovered	0.0					
Middle Cape		8/01				
No. tagged	4					
No. recovered	0					
% recovered	0.0					

-Continued-

ACKNOWLEDGMENTS

The author would like to thank the following individuals and agencies for their valuable assistance in making this program a success: Alaska Department of Fish and Game personnel Mike Jackson, Randy Rust, Tom Kohler, Dan Dougherty, David Dickson, Wayne Lonn, and Audrey Denison; Rich Mattson of P.W.S.A.C.; Jason Wells of V.F.D.A.; the commercial fishermen of Prince William Sound; and personnel of the United States Forest Service.

REFERENCE

Alaska Department of Fish and Game. 1978. Discussion of draft of Policies and Procedures - Private Nonprofit Hatchery Program, Regional Comprehensive Planning. November 8. Policy No. PNP 2.2 Natural Stock Consideration, Page 12.

APPENDIX A

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981.

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Eastern District			
1	221-10		Hartney Bay, Orca Inlet
2		Hartney Creek	Hartney Bay, Orca Inlet
3		Nicolet Creek	Three Mile Bay, Orca Inlet
4		Heney Creek	Three Mile Bay, Orca Inlet
5		Eccles Creek	Whiskey Slough, Orca Inlet
6		Odiak Slough	Orca Inlet
7		Ocean Dock Creek	Orca Inlet
8		Fleming Creek	Orca Inlet
9		Crater Lake Creek	NEFCO Cannery, Orca Inlet
10		Little Humpy Creek	Humpy Cove, Orca Inlet
11		Humpy Creek	Humpy Cove, Orca Inlet
12		Shepard Creek	Shepard Spit, Orca Inlet
13			Nelson Bay, Orca Inlet
14			Nelson Bay, Orca Inlet
15		Nelson Creek	Nelson Bay, Orca Inlet
16		Rude River	Nelson Bay, Orca Inlet
17	221-10	Goat Creek	Nelson Bay, Orca Inlet
18	221-20	Hidden Creek	Hidden Lagoon, Simpson Bay
19		Twin Lakes Creek	Simpson Bay
20		Spring Creek	Simpson Bay
21		Rogue Creek	Simpson Bay
22			Simpson Bay
23		Chase River	Simpson Bay
24			Simpson Bay
25			Simpson Bay
26		Simpson Creek	Simpson Bay
27		Smith Creek	Simpson Bay
28		Durkee Creek	Alice Cove
29			Sheep Bay
30			Sheep Bay
31			Sheep Bay
32			Sheep Bay
33			Sheep Bay
34			Sheep Bay
35		Koppen Creek	Sheep Bay
36		Sheep River	Sheep Bay
37		Allen Creek	Sheep Bay
38			Sheep Bay
39	221-20		Sheep Bay

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Eastern District, continued.			
40	221-30	Gravina Point Creek	Port Gravina
41		Pass Creek	Port Gravina
42			Port Gravina
43			Port Gravina
44			Port Gravina
45		Plateau Creek	Port Gravina
46		Comfort Creek	Comfort Cove, Port Gravina
47		Native Creek	Port Gravina
48		Beartrap River	Beartrap Bay, Port Gravina
49		Cataract Creek	Beartrap Bay, Port Gravina
50		Gravina River	Port Gravina
51		Olsen Creek	Olsen Bay, Port Gravina
51A		Parshas Creek	Parshas Bay, Port Gravina
52		Control Creek	Olsen Bay, Port Gravina
53			Olsen Bay, Port Gravina
54		Carlsen Creek	Port Gravina
55			St. Matthews Bay, Port Gravina
56		St. Matthews Creek	St. Matthews Bay, Port Gravina
57			St. Matthews Bay, Port Gravina
58			St. Matthews Bay, Port Gravina
59			St. Matthews Bay, Port Gravina
60			St. Matthews Bay, Port Gravina
61			St. Matthews Bay, Port Gravina
62			Humphrey's Hole, Port Gravina
63			Humphrey's Hole, Port Gravina
64			Hell's Hole, Port Gravina
65		Coho Creek	Hell's Hole, Port Gravina
66			Hell's Hole, Port Gravina
67	221-30	Knowles Creek	Knowles Head
68	221-40		Snug Corner Cove, Port Fidalgo
69			Snug Corner Cove, Port Fidalgo
70			Two Moon Bay, Port Fidalgo
71			Two Moon Bay, Port Fidalgo
72		Two Moon Creek	Two Moon Bay, Port Fidalgo
73		Tundra Creek	Two Moon Bay, Port Fidalgo
74			Port Fidalgo
75			Port Fidalgo
76		Irish Creek	Irish Cove, Port Fidalgo
77			Port Fidalgo
78			Whalen Bay, Port Fidalgo
79			Whalen Bay, Port Fidalgo
80		Whalen Creek	Whalen Bay, Port Fidalgo

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Eastern District, continued.			
81	221-40		Whalen Bay, Port Fidalgo
82			Port Fidalgo
83		Keta Creek	Fidalgo River Delta, Port Fidalgo
84			Fidalgo River Delta, Port Fidalgo
85			Fidalgo River Delta, Port Fidalgo
86		Fidalgo River	Port Fidalgo
87		Sunny River	Sunny Bay, Port Fidalgo
88		Short Creek	Sunny Bay, Port Fidalgo
89		Fish Creek	Fish Bay, Port Fidalgo
90			Fish Bay, Port Fidalgo
91			Fish Bay, Port Fidalgo
92		Shale Creek	Fish Bay, Port Fidalgo
93		Kirkwood Creek	Fish Bay, Port Fidalgo
94		Rock Creek	Fish Bay, Port Fidalgo
95		Cutthroat Creek	Fish Bay, Port Fidalgo
96		Banzer Creek	Landlocked Bay, Port Fidalgo
97			Landlocked Bay, Port Fidalgo
98		Rainbow Falls Creek	Landlocked Bay, Port Fidalgo
99		Lagoon Creek	Landlocked Bay, Port Fidalgo
100		Borodkin Creek	Boulder Bay, Port Fidalgo
101		Tedishoff Creek	Boulder Bay, Port Fidalgo
102	221-40	Tatitlek Creek	Boulder Bay, Port Fidalgo
103	221-50	Brown Creek	Tatitlek Narrows
104		Boardwalk Creek	Virgin Bay
105		Bridge Creek	Virgin Bay
106		Gladhough Creek	Virgin Bay
107	221-50	Black Creek	Black Point, Valdez Arm
108	221-40	Bligh Creek	Bligh Island
109		Ranch Creek	Cloudman Bay, Bligh Island
110		Fox Creek	Cloudman Bay, Bligh Island
111		Cloudman Creek	Cloudman Bay, Bligh Island
112		Katelnikoff Creek	Tatitlek Narrows, Bligh Island
113	221-40	Busby Creek	West Bay, Bligh Island
114	221-50	Turner Creek	Galena Bay, Valdez Arm
115		Millard Creek	Galena Bay, Valdez Arm
116		Duck River	Galena Bay, Valdez Arm
117		Indian Creek	Galena Bay, Valdez Arm
118		Krause Creek	Galena Bay, Valdez Arm
119		Johnson Cove Creek	Johnson Cove, Valdez Arm
120		Donaldson Creek	Johnson Cove, Valdez Arm

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Eastern District, continued.			
121	221-50	Levshakoff Creek	Jack Bay, Valdez Arm
122			Jack Bay, Valdez Arm
123		Gregorieff Creek	Jack Bay, Valdez Arm
124			Jack Bay, Valdez Arm
125			Jack Bay, Valdez Arm
126			Jack Bay, Valdez Arm
127		Naomoff River	Jack Bay, Valdez Arm
128			Jack Bay, Valdez Arm
129	221-50	Vlasoff Creek	Jack Bay, Valdez Arm
130	221-60	Confusion Creek	Anderson Bay, Port Valdez
131		Gorge Creek	Port Valdez
132			Port Valdez
133		Sawmill Creek	Port Valdez
134		Dayville Creek	Port Valdez
135		Allison Creek	Port Valdez
136		Solomon Creek	Port Valdez
137		Lowe River	Port Valdez
138		Dump Creek	Valdez Flats, Port Valdez
139		Dock Creek	Valdez Flats, Port Valdez
140		Old Town Creek	Valdez Flats, Port Valdez
141		Airport Creek	Valdez Flats, Port Valdez
142		Pipe Creek	Valdez Flats, Port Valdez
143		Siwash Creek	Port Valdez
144			Port Valdez
145		Crooked Creek	Port Valdez
146		Seepage Creek	Port Valdez
147		Mineral Creek	Port Valdez
148			Mineral Creek Flats, Port Valdez
149		Gold Creek	Port Valdez
150	221-60	Kaydas Creek	Port Valdez
151	221-50	Port Creek	Valdez Narrows, Valdez Arm
152		Twin Falls Creek	Sawmill Bay, Valdez Arm
153		Stellar Creek	Sawmill Bay, Valdez Arm
154			Sawmill Bay, Valdez Arm
155	221-50		Valdez Arm

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Northern District			
201	222-10	Emerald Creek	Emerald Cove, Columbia Bay
202			Columbia Bay
203		Lake Creek	Columbia Bay
204			Columbia Bay
205		Columbia Creek	Columbia Glacier
206			Columbia Glacier
207			Granite Cove, Glacier Island Passage
208			Granite Cove, Glacier Island Passage
209		Useless Creek	Useless Cove, Glacier Island Passage
210		Elf Creek	Useless Cove, Glacier Island Passage
211		Middle Creek	Long Bay, Glacier Island Passage
212		Inner Creek	Long Bay, Glacier Island Passage
213		Bench Mark Creek	Long Bay, Glacier Island Passage
214		Long Creek	Long Bay, Glacier Island Passage
215			Long Bay, Glacier Island Passage
216		Vanishing Creek	Long Bay, Glacier Island Passage
217		Spring Stream	Long Bay, Glacier Island Passage
218		Billy's Creek	Billy's Hole, Glacier Island Passage
219		Gravel Creek	Billy's Hole, Glacier Island Passage
220		Fin Creek	Eickelberg Bay, Glacier Island Pass.
221		Eickelberg Creek	Eickelberg Bay, Glacier Island Pass.
222		Sere Creek	Eickelberg Bay, Glacier Island Pass.
223	222-10		Glacier Island Passage
224	222-20	Backyard Creek	Fairmount Island Passage
225		Fletcher Creek	Fairmount Island Passage
226		White Creek	Granite Bay
227		Granite Creek	Granite Bay
228		Right Creek	Cedar Bay
229		Cedar Creek	Cedar Bay
230			Cedar Bay Lagoon
231			Cedar Bay
232		Delta Creek	Wells Bay
233		Surplus Creek	Wells Bay
234		Wells River	Wells Bay
235			Wells Bay
236			Wells Bay
237			Wells Bay
238		Entrance Creek	Unakwik Inlet
239			Unakwik Inlet
240			Cannery Cove
241	222-20	Cannery Creek	Unakwik Inlet

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Northern District, continued.			
242	222-50	Cowpen Creek	Unakwik Inlet
243			Cowpen Cove, Unakwik Inlet
244		Miners River	Unakwik Inlet
245			Unakwik Inlet
246			Unakwik Inlet
247			Unakwik Inlet
248			Unakwik Inlet
249			Unakwik Inlet
250			Unakwik Inlet
251			Unakwik Inlet
252			Unakwik Inlet
253			Unakwik Inlet
254			Unakwik Inlet
255	222-50		Unakwik Inlet
256	222-20		Jonah Bay, Unakwik Inlet
257		Complex Creek	Jonah Bay, Unakwik Inlet
258		Williams Creek	Jonah Bay, Unakwik Inlet
259		Jonah Creek	Jonah Bay, Unakwik Inlet
260		Marker Creek	Jonah Bay, Unakwik Inlet
261		Plundered Creek	Jonah Bay, Unakwik Inlet
262			Siwash Bay, Unakwik Inlet
263		Waterfall Creek	Siwash Bay, Unakwik Inlet
264		Siwash River	Siwash Bay, Unakwik Inlet
265		Unakwik Creek	Siwash Bay, Unakwik Inlet
266		Olsen Cove Creek	Olsen Cove
267			Olsen Cove
268			Olsen Cove
269	222-20	Kiniklik Creek	Kiniklik Cove
270	222-30	Pellew Creek	Point Pellew
271		Anchorage Creek	Point Pellew, Eaglek Bay
272			Eaglek Bay
273		Schoppe Creek	Schoppe Bay, Eaglek Bay
274			Schoppe Bay, Eaglek Bay
275		Concealed Creek	Schoppe Bay, Eaglek Bay
276		Black Bear Creek	Eaglek Bay
277		Dead Creek	Eaglek Bay
278		Comeback Creek	Eaglek Bay
279		Canyon Creek	Eaglek Bay
280		Poor Creek	Eaglek Bay
281		Eaglek River	Eaglek Bay

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Northern District, continued.			
282	222-30	Good Creek	Eaglek River Delta, Eaglek Bay
283		Bad Creek	Eaglek River Delta, Eaglek Bay
284			Cascade Bay, Eaglek Bay
285		Cascade River	Cascade Bay, Eaglek Bay
286			Cascade Bay, Eaglek Bay
287			Cascade Bay, Eaglek Bay
288		High Creek	Derickson Bay, Eaglek Bay
289		Derickson Creek	Derickson Bay, Eaglek Bay
290			Derickson Bay, Eaglek Bay
291		Low Creek	Derickson Bay, Eaglek Bay
292		Papoose Creek	Squaw Bay
293		West Twin Creek	Perry Island
294		East Twin Creek	Perry Island
295	222-30	Lambert Lagoon	Perry Island
296	222-40	Naked Creek	Cabin Bay, Naked Island
297	222-40	Clock Creek	Peak Island
298	222-10	Finski Creek	Glacier Island
299	222-10	Campbell Creek	Glacier Island
Coghill District			
300	223-20	Red Creek	Esther Passage
301			Esther Passage
302		Stakeout Creek	Esther Passage
303		Triple Creek	Esther Passage
304		Passing Creek	Esther Passage
305		Pot Creek	Esther Passage
306			Esther Passage
307		Village Creek	Esther Passage
308	223-20	Nonsense Creek	Esther Passage
309	223-30		Port Wells
310		Golden Lagoon	Port Wells
311		Golden River	Port Wells
312			Golden Bay, Port Wells
313			Golden Bay, Port Wells
314		Avery River	College Fiord
315		Fools Creek	College Fiord
316		Reef Creek	College Fiord
317			College Fiord

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Coghill District, continued.			
318	223-30	Crescent River	College Fiord
319		Amherst Springs	College Fiord
320		Amherst River	College Fiord
321		Lafayette River	College Fiord
322		Coghill River	College Fiord
323			College Fiord
324			College Fiord
325			College Fiord
326			College Fiord
327		Holyoke Creek	College Fiord
328	223-30		College Fiord
329	223-20		Esther Island, Port Wells
330		Gran Creek	Esther Island, Port Wells
331			Granite Bay, Esther Is., Port Wells
332			Granite Bay, Esther Is., Port Wells
333		South Gran Creek	Granite Bay, Esther Is., Port Wells
334	223-20	Error Creek	Esther Island, Port Wells
335	223-40		Lake Bay, Esther Island
336		Esther River	Lake Bay, Esther Island
337			Quillian Bay, Esther Island
338			Quillian Bay, Esther Island
339			Esther Bay, Esther Island
340			Esther Bay, Esther Island
341	223-40		Esther Bay, Esther Island
342	223-20		Shoestring Bay, Esther Island
343			Shoestring Bay, Esther Island
344		Shoestring Creek	Shoestring Bay, Esther Island
345	223-20		Esther Passage, Esther Island
400	223-10		Point Pakenham, Barry Arm
401			Point Pakenham, Barry Arm
402		Mosquito Creek	Barry Arm
403			Barry Arm
404			Barry Arm
405			Barry Arm
406			Harriman Fiord
407			Harriman Fiord
408			Serpentine Flats, Harriman Fiord
409			Serpentine Flats, Harriman Fiord
410			Harriman Fiord

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Coghill District, continued.			
411	223-10		Barry Arm, Point Doran
412			Barry Arm
413		Barry Creek	Barry Arm
414		Harrison Creek	Harrison Lagoon, Port Wells
415		Wanigan Creek	Harrison Bay, Port Wells
416		Mine Creek	Granite Mine Creek, Port Wells
417		Hobo Creek	Hobo Bay, Port Wells
418			Bettles Bay, Port Wells
419		Worthless Creek	Bettles Lagoon, Port Wells
420		Barren Creek	Bettles Lagoon, Port Wells
421		Mill Creek	Bettles Lagoon, Port Wells
422		Bettles River	Bettles Bay, Port Wells
423		Backout Creek	Bettles Bay, Port Wells
424		Old Creek	Hummer Bay, Port Wells
425		Hummer Creek	Hummer Bay, Port Wells
426		Outer Creek	Hummer Bay, Port Wells
427		Chasm Creek	Pirate Cove, Port Wells
428		Pirate Creek	Pirate Cove, Port Wells
429		Airplane Creek	Pigot Bay, Port Wells
430		Meacham Creek	Pigot Bay, Port Wells
431		Pigot River	Pigot Bay, Port Wells
432		Swanson Creek	Pigot Bay, Port Wells
433	223-10	Longitude Creek	Pigot Point, Port Wells
Northwestern District			
434	224-10	Entry Cove Creek	Passage Canal
435		Logging Camp Creek	Logging Camp Bay, Passage Canal
436		Poe River	Passage Canal
437		Wind Creek	Billings Delta, Passage Canal
438		Billings Creek	Passage Canal
439		West Wind Creek	Billings Delta, Passage Canal
440		Shakespeare Creek	Passage Canal
441		Whittier Creek	Passage Canal
442		Cove Creek	Passage Canal
443		Trinity Creek	Passage Canal
444		Clean Creek	Shotgun Cove, Passage Canal
445		Barge Creek	Shotgun Cove, Passage Canal
446		Shotgun Creek	Shotgun Cove, Passage Canal
447		Squirrel Creek	Passage Canal
448			Blackstone Bay

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Northwestern District, continued.			
449	224-10		Blackstone Bay
450		Tebenkof Creek	Blackstone Bay
451		Blackstone Creek	Blackstone Bay
452			Surprise Cove, Cochrane Bay
453		Surprise Creek	Surprise Cove, Cochrane Bay
454		Halferty Creek	Cochrane Bay
455		Paulson Creek	Cochrane Bay
456			Cochrane Bay
457			Cochrane Bay
458		Parks Creek	Cochrane Bay
459		Rainy Creek	Cochrane Bay
460		Strom Creek	Cochrane Bay
461		Cochrane Creek	Cochrane Bay
462			Cochrane Bay
463			Cochrane Bay
464		Gilbert Creek	Cochrane Bay
465		Robber's Creek	Cochrane Bay
466			Cochrane Bay
467			Cochrane Bay
468			Cochrane Bay
469	224-10	Wickett Creek	Cochrane Bay
470	224-30		Culross Passage
471		Narrows Creek	Culross Passage
472			Culross Passage
473			Goose Bay, Culross Passage
474			Long Bay, Culross Passage
475			Long Bay, Culross Passage
476		Shrode Creek	Long Bay, Culross Passage
477			Long Bay, Culross Passage
478			Culross Island, Culross Passage
479	224-30	Culross Creek	Culross Passage
480	224-40	Mink Creek	Mink Harbor, Port Nellie Juan
481			North Nellie Juan
482			North Nellie Juan
483			North Nellie Juan
484		East Finger Creek	Port Nellie Juan
485		West Finger Creek	Kings Bay
486		Turn Creek	Kings Bay
487		Kings River	Kings Bay
488		Nellie Juan River	Kings Bay

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Northwestern District, continued.			
489	224-40	Manley Creek	Port Nellie Juan
490		Greystone Creek	Port Nellie Juan
491		Deep Water Creek	Port Nellie Juan
492			Port Nellie Juan
493		Most Creek	Port Nellie Juan
494			McClure Bay, Port Nellie Juan
495		Chimevisky Creek	McClure Bay, Port Nellie Juan
496			McClure Bay, Port Nellie Juan
497			McClure Bay, Port Nellie Juan
498		McClure Creek	McClure Bay, Port Nellie Juan
499	224-40	Shipyard Creek	Port Nellie Juan
Eshamy District			
500	225-10	Point Nellie Juan Cr.	
501	225-10	Tiedeman Creek	Foul Bay
502	225-20	Discher Creek	Main Bay
503		Main River	Main Bay
504		Comstock Creek	Main Bay
505	225-20	Hana Creek	Falls Bay
506	225-30	Loomis Creek	Eshamy Bay
507		Gumboot Creek	Eshamy Bay
508		J. D. Solf Creek	Eshamy Lagoon, Eshamy Bay
509			Eshamy Lagoon, Eshamy Bay
510		Eleshansky Creek	Eshamy Lagoon, Eshamy Bay
511		Eshamy River	Eshamy Lagoon, Eshamy Bay
512			Eshamy Lagoon, Eshamy Bay
513			Eshamy Bay
514			Eshamy Bay
515			Eshamy Bay
516	225-30	Clemence Creek	Eshamy Bay
Southwestern District			
600	226-20		Granite Bay, Dangerous Passage
601		Paddy Creek	Paddy Bay, Dangerous Passage
602		Nacktan Creek	Paddy Bay, Dangerous Passage
603		Ewan Creek	Ewan Bay, Dangerous Passage
604		Erb Creek	Ewan Bay, Dangerous Passage
605			Ewan Bay, Dangerous Passage

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Southwestern District, continued.			
606	226-20		Jackpot Bay, Dangerous Passage
607			Jackpot Bay, Dangerous Passage
608		Jackpot River	Jackpot Bay, Dangerous Passage
609			Jackpot Bay, Dangerous Passage
610		Kompkoff River	Jackpot Bay, Dangerous Passage
611			Jackpot Bay, Dangerous Passage
612			Jackpot Bay, Dangerous Passage
613		Jackson Creek	Jackpot Bay, Dangerous Passage
614		Spiros Creek	Jackpot Bay, Dangerous Passage
615			Jackpot Bay, Dangerous Passage
616		Tiger Creek	Icy Bay, Dangerous Passage
617		Princeton Creek	Icy Bay, Dangerous Passage
618		Junction Creek	Chenega Is., Knight Is. Passage
619			Masked Bay, Chenega Island
620			Chenega Island, Dangerous Passage
621		Totemoff Creek	Chenega Island, Dangerous Passage
622			Chenega Island, Dangerous Passage
623		Brizgaloff Creek	Chenega Island, Dangerous Passage
624			Chenega Island
625		Kononoff Creek	Chenega Island
626			Kake Cove, Chenega Island
627		Kake Creek	Kake Cove, Chenega Island
628		Chenega Creek	Chenega Is., Knight Is. Passage
629			Whale Bay
630		Bainbridge Creek	Whale Bay
631		Wolverine Creek	Whale Bay
632		Claw Creek	Whale Bay
633		Pablo Creek	Whale Bay
634		Passover Creek	Whale Bay
635			Whale Bay
636		Whale Creek	Whale Bay
637	226-20	Countess Creek	Point Countess, Knight Is. Passage
638	226-40		Bainbridge Passage
639	226-50	Passage Creek	Bainbridge Passage
640			Port Bainbridge
641			Port Bainbridge
642			Port Bainbridge
643			Port Bainbridge
644			Auk Bay, Port Bainbridge
645			Port Bainbridge
646		Puget Lake	Puget Bay
647			Puget Bay

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Southwestern District, continued.			
648	226-50		Puget Bay
649		Puget River	Puget Bay
650			Puget Bay
651		Doubtful Creek	Swanson Bay, Bainbridge Island
652			Hogg Bay, Bainbridge Island
653		Hogg Creek	Hogg Bay, Bainbridge Island
654	226-50		Hogg Bay, Bainbridge Island
655	226-40	Johnson Creek	Bainbridge Island
656		Halverson Creek	Bainbridge Island
657			Prince of Wales Passage
658			Prince of Wales Pass., Evans Island
659			Prince of Wales Pass., Evans Island
660			Prince of Wales Pass., Evans Island
661		Calvert Creek	Shelter Bay, Evans Island
662			Shelter Bay, Evans Island
663		Shelter Creek	Shelter Bay, Evans Island
664		Evans Creek	Evans Island
665		Bjorn Creek	Latouche Passage, Evans Island
666		O'Brien Creek	Crab Bay, Evans Island
667		Anderson Creek	Sawmill Bay, Evans Island
668		Ashton Creek	Sawmill Bay, Evans Island
669		Larsen Creek	Sawmill Bay, Evans Island
670		Montgomery Creek	Latouche Island
671			Big Bay, Latouche Island
672			Big Bay, Latouche Island
673		Falls Creek	Big Bay, Latouche Island
674			Big Bay, Latouche Island
675		Chicken Creek	Latouche Island
676		Horseshoe Creek	Horseshoe Bay, Latouche Island
677		Hayden Creek	Latouche Island
678			Sleepy Bay, Latouche Island
679			Latouche Island, Montague Strait
680	226-40	Thumb Creek	Thumb Bay, Mummy Bay, Knight Island
681	226-30	Hogan Creek	Hogan Bay, Knight Island
682		Snug Harbor Creek	Snug Harbor, Knight Island
683			Snug Harbor, Knight Island
684		South Creek	Marsha Bay, Knight Island
685		North Creek	Marsha Bay, Knight Island

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Southwestern District, continued.			
686	226-30		Bay of Isles, Knight Island
687		Sockeye Creek	Bay of Isles, Knight Island
688	226-30		Bay of Isles, Knight Island
689	226-10	Louis Creek	Louis Bay, Knight Island
690			Herring Bay, Knight Island
691			Herring Bay, Knight Island
692	226-10	Herring Creek	Herring Bay, Knight Island
693	226-20		Lower Herring Bay, Knight Island
694			Johnson Bay, Knight Island
695		Audrey Creek	Drier Bay, Knight Island
696			Drier Bay, Knight Island
697		Barnes Creek	Barnes Cove, Drier Bay, Knight Is.
698		Mallard Creek	Barnes Cove, Drier Bay, Knight Is.
699	226-20	Cathead Creek	Cathead Bay, Drier Bay, Knight Is.
Montague District			
700	227-10	San Juan Creek	San Juan Bay, Montague Island
701		Trap Creek	MacLeod Harbor, Montague Island
702		Point Creek	MacLeod Harbor, Montague Island
703		Clam Beach Creek	MacLeod Harbor, Montague Island
704			MacLeod Harbor, Montague Island
705			MacLeod Harbor, Montague Island
706		Logger's Creek	MacLeod Harbor, Montague Island
707		MacLeod Creek	MacLeod Harbor, Montague Island
708			Montague Strait, Montague Island
709			Montague Strait, Montague Island
710		Hanning Creek	Hanning Bay, Montague Island
711		Quadra Creek	Hanning Bay, Montague Island
712			Montague Island
713			Montague Island
714			Montague Island
715			Montague Island
716			Montague Island
717			Montague Island
718			Montague Island
719			Montague Island
720			Montague Island

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Montague District, continued.			
721	227-10		Montague Island
722			Montague Island
723			Montague Island
724			Montague Island
725			Montague Island
726		Montague Creek	Montague Island
727			Montague Island
728			Montague Island
729	227-10		Montague Island
730	227-20		Montague Island
731			Montague Island
732			Montague Island
733			Montague Island
734			Montague Island
735			Montague Island
736			Montague Island
737			Montague Island
738		Russell Creek	Montague Island
739		Swamp Creek	Montague Island
740		Kelez Creek	Port Chalmers, Montague Island
741		Chalmers River	Port Chalmers, Montague Island
742			Port Chalmers, Montague Island
743			Port Chalmers, Montague Island
744		Wilby Creek	Port Chalmers, Montague Island
745		Wild Creek	Port Chalmers, Montague Island
746		Schuman Creek	Port Chalmers, Montague Island
747		Cabin Creek	Port Chalmers, Montague Island
748		Gilmour Creek	Montague Island
749		Shad Creek	Montague Island
750			Montague Island
751			Stockdale Harbor, Montague Island
752		Stockdale Creek	Stockdale Harbor, Montague Island
753			Stockdale Harbor, Montague Island
754		Dry Creek	Stockdale Harbor, Montague Island
755			Stockdale Harbor, Montague Island
756		Graveyard Creek	Montague Island
757			Montague Island
758			Rocky Bay, Montague Island
759		Rocky Creek	Rocky Bay, Montague Island
760		Curran Creek	Curran Anchorage, Rocky Bay
761			Rocky Bay, Montague Island

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Montague District, continued.			
762	227-20		Zaikof Bay, Montague Island
763			Zaikof Bay, Montague Island
764			Zaikof Bay, Montague Island
765			Zaikof Bay, Montague Island
766		Carr Creek	Zaikof Bay, Montague Island
767			Zaikof Bay, Montague Island
768			Zaikof Bay, Montague Island
769		Zaikof Creek	Zaikof Bay, Montague Island
770		Udall Creek	Zaikof Bay, Montague Island
771		McKernan Creek	Zaikof Bay, Montague Island
772			Zaikof Bay, Montague Island
773			Zaikof Bay, Montague Island
774		Rosswog Creek	Zaikof Bay, Montague Island
775		Pautzke Creek	Zaikof Bay, Montague Island
776			Zaikof Bay, Montague Island
777	227-20	Schooner Creek	Zaikof Bay, Montague Island
778	227-30	Beach River	East Montague Island
779		Nellie Martin River	Patton Bay, Montague Island
780			Patton Bay, Montague Island
781			Patton Bay, Montague Island
782		Patton Creek	Patton Bay, Montague Island
783			Jeanie Cove, Montague Island
784		Jeanie Creek	Jeanie Cove, Montague Island
785			Jeanie Cove, Montague Island
786			Southeast Montague Island
787	227-30	Deception Creek	Southeast Montague Island
788	227-20	Green Creek	Green Island
789	227-20	Gibbon Creek	Gibbon Anchorage, Green Island
Southeastern District			
800	228-60	Lighthouse Creek	Cape Hinchinbrook, Hinchinbrook Is.
801			Cape Hinchinbrook, Hinchinbrook Is.
802			Cape Hinchinbrook, Hinchinbrook Is.
803		English Creek	English Bay, Port Etches
804			Port Etches, Hinchinbrook Island
805			Port Etches, Hinchinbrook Island
806		Dog Salmon Creek	Port Etches, Hinchinbrook Island
807		Beaver Creek	Port Etches, Hinchinbrook Island

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Southeastern District			
808	228-60		Garden Cove, Port Etches
809			Garden Cove, Port Etches
810		Garden Creek	Garden Cove, Port Etches
811		Etches Creek	Port Etches, Hinchinbrook Island
812		Nuchek Creek	Port Etches, Hinchinbrook Island
813			Port Etches, Hinchinbrook Island
814			Port Etches, Hinchinbrook Island
815	228-60	Constantine Creek	Hinchinbrook Island
816	228-50	Bear Cape Creek	Hinchinbrook Island
817		Deer Creek	Hinchinbrook Island
818		Juania Creek	Hinchinbrook Island
819			Shelter Bay, Hinchinbrook Island
820			Shelter Bay, Hinchinbrook Island
821		Brown Bear Creek	Shelter Bay, Hinchinbrook Island
822			Shelter Bay, Hinchinbrook Island
823	228-50	Johnstone Creek	Hinchinbrook Island
824	228-40		Hinchinbrook Island
825		Eagle Point Creek	Hinchinbrook Island
826			Anderson Bay, Hinchinbrook Island
827		Captain Creek	Anderson Bay, Hinchinbrook Island
828		Cook Creek	Anderson Bay, Hinchinbrook Island
829		King Creek	Double Bay, Hinchinbrook Island
830			Double Bay, Hinchinbrook Island
831		Double Creek	Double Bay, Hinchinbrook Island
832	228-40		Double Bay, Hinchinbrook Island
833	228-20	Bates Creek	Fish Bay, Hinchinbrook Island
834		Hardy Creek	Fish Bay, Hinchinbrook Island
835		Scott Creek	Hawkins Cutoff, Hinchinbrook Island
836		Dan's Creek	Dan's Bay, Hinchinbrook Island
837		Seal Creek	Dan's Bay, Hinchinbrook Island
838		Cub Creek	Dan's Bay, Hinchinbrook Island
839		Goose Creek	Dan's Bay, Hinchinbrook Island
840	228-20	Mallard Creek	Hinchinbrook Island
841	228-10	Kenny Creek	Hinchinbrook Island
842	228-20	Muddy Creek	Hawkins Cutoff, Hawkins Island
843	228-20		Hawkins Cutoff, Hawkins Island

-Continued-

Appendix A. Sequential list of salmon stream numbers, names, and locations, by management district and statistical area number, Prince William Sound, Alaska, 1981 (continued).

ADF&G stream number	Statistical area number	Stream name	Descriptive location
Southeastern District, continued.			
844	228-30	Makaka Creek	Hawkins Island
845			Makaka Point, Hawkins Island
846			Makaka Point, Hawkins Island
847		Hawkins Creek	Hawkins Island
848		Corner Creek	Canoe Passage, Hawkins Island
849		Rollins Creek	Canoe Passage, Hawkins Island
850		Canoe Creek	Canoe Passage, Hawkins Island
851		Zillesenoff Creek	Canoe Passage, Hawkins Island
852		USFS Trail Creek	Canoe Passage, Hawkins Island
853		Whiskey Creek	Whiskey Cove, Hawkins Island
854		Bar Creek	Whiskey Cove, Hawkins Island
855		Gravel Beach Creek	Hawkins Island
856		West Lagoon	Cedar Bay, Hawkins Island
857		East Lagoon	Cedar Bay, Hawkins Island
858		North Lagoon	Cedar Bay, Hawkins Island
859			Windy Bay, Hawkins Island
860			Windy Bay, Hawkins Island
861		Bernard Creek	Windy Bay, Hawkins Island
862	228-30	Clamdigger's Cove	Hawkins Island
863	228-10	Orca Creek	Hawkins Island
864		Orca Narrows Creek	Orca Channel, Hawkins Island
865		Deep Creek	Deep Bay, Orca Inlet, Hawkins Island
866		Hyde Creek	Mud Bay, Orca Inlet, Hawkins Island
867	228-10	Trail Creek	Orca Inlet, Hawkins Island
868	228-20	Bluff Creek	Hawkins Cutoff, Hawkins Island
869		Crab Bay	Hawkins Cutoff, Hawkins Island
870		FAA Creek	Hawkins Cutoff, Hawkins Island
871	228-20	Derelict Creek	Hawkins Cutoff, Hawkins Island

NOAA COASTAL SERVICES CENTER LIBRARY
3 6668 14103 7962