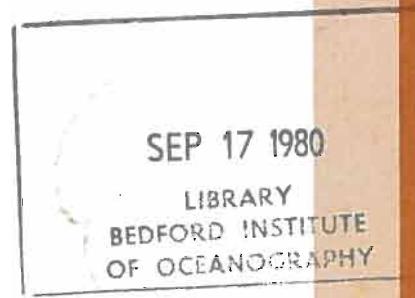


Data Record: Juvenile Salmon and Other Fish Species Captured by 50-Fathom Purse Seines in Nearshore Areas Near Nanaimo, 1976

R. V. Schmidt, M. C. Healey, F. P. Jordan, and R. M. Hunger

Department of Fisheries and Oceans
Resource Services Branch
Pacific Biological Station
Nanaimo, British Columbia V9R 5K6

November 1979



Canadian Data Report of Fisheries and Aquatic Sciences No. 168

PLEASE DO NOT
REMOVE FROM
LIBRARY



Government of Canada
Fisheries and Oceans

Gouvernement du Canada
Pêches et Océans

Canadian Data Report of Fisheries and Aquatic Sciences

These reports provide a medium for filing and archiving data compilations where little or no analysis is included. Such compilations commonly will have been prepared in support of other journal publications or reports. The subject matter of Data Reports reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries management, technology and development, ocean sciences, and aquatic environments relevant to Canada.

Numbers 1-25 in this series were issued as Fisheries and Marine Service Data Records. Numbers 26-160 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Data Reports. The current series name was changed with report number 161.

Data Reports are not intended for general distribution and the contents must not be referred to in other publications without prior written clearance from the issuing establishment. The correct citation appears above the abstract of each report.

Rapport statistique canadien des sciences halieutiques et aquatiques

Ces rapports servent de base à la compilation des données de classement et d'archives pour lesquelles il y a peu ou point d'analyse. Cette compilation aura d'ordinaire été préparée pour appuyer d'autres publications ou rapports. Les sujets des Rapports statistiques reflètent la vaste gamme des intérêts et politiques du Ministère des Pêches et des Océans, notamment gestion des pêches, techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les numéros 1 à 25 de cette série ont été publiés à titre de Records statistiques, Service des pêches et de la mer. Les numéros 26-160 ont été publiés à titre de Rapports statistiques du Service des pêches et de la mer, Ministère des Pêches et de l'Environnement. Le nom de la série a été modifié à partir du numéro 161.

Les Rapports statistiques ne sont pas préparés pour une vaste distribution et leur contenu ne doit pas être mentionné dans une publication sans autorisation écrite préalable de l'établissement auteur. Le titre exact paraît au haut du résumé de chaque rapport.

Canadian Data Report of Fisheries
and Aquatic Sciences No. 168

November 1979

DATA RECORD: JUVENILE SALMON AND OTHER FISH SPECIES CAPTURED
BY 50-FATHOM PURSE SEINES IN NEARSHORE AREAS NEAR NANAIMO, 1976

by

R. V. Schmidt, M. C. Healey, F. P. Jordan, and R. M. Hungar

Department of Fisheries and Oceans

Resource Services Branch

Pacific Biological Station

Nanaimo, British Columbia V9R 5K6

(c) Minister of Supply and Services Canada 1979

Cat. no. Fs 97-13/168

ISSN 0706-6465

ABSTRACT

Schmidt, R. V., M. C. Healey, F. P. Jordan, and R. M. Hungar. 1979. Data Record: Juvenile salmon and other fish species captured by 50-fathom purse seines in nearshore areas near Nanaimo, 1976 . Can. Data Rep. Fish. Aquat. Sci. 168: 83 p.

This report summarizes catches of juvenile salmon and other associated fishes in nearshore areas near Nanaimo. The catches were made by a 50-fathom purse seine. Average lengths, weights, and dry stomach content weights are included.

Key words: Salmon, intertidal, Pacific, Georgia Strait.

RÉSUMÉ

Schmidt, R. V., M. C. Healey, F. P. Jordan, and R. M. Hungar. 1979. Data Record: Juvenile salmon and other fish species captured by 50-fathom purse seines in nearshore areas near Nanaimo, 1976 . Can. Data Rep. Fish. Aquat. Sci. 168: 83 p.

Le rapport décrit de façon sommaire les prises de jeunes saumons et d'autres poissons associés réalisée près de Nanaïmo, dans des zones pré-côtières, à l'aide d'une senne à poche de 50 brasses halee à la main. Le rapport présente aussi les moyennes de la longueur, du poids et du contenu sec de l'estomac.

Mots clés: saumon, intertidal, Pacifique, détroit de Géorgie.

INTRODUCTION

In 1975 we began research on the population ecology of juvenile Pacific salmon (Oncorhynchus spp.) during the first few months after they enter the sea. Our research was part of a collaborative research project on the ecology of young salmon in the sea which emphasized interactions among young salmon, their food competitors, and their predators (Healey et al. 1976).

In 1975 and 1976 our research centered on young salmon in the Nanaimo area, particularly chum (O. keta) fry from the Nanaimo River. Our objectives were to estimate the daily emigration of chum fry from the Nanaimo River, their distribution and abundance in the local area, and the contribution of Nanaimo fry to the local population, their size and rate of growth, and their feeding habits. Previous reports summarized data on the distribution, abundance, growth of young salmon in the Nanaimo area in 1975 (Healey et al. 1977a, 1977b), and catch and food habits of young salmon and other species on the Nanaimo River estuary (Schmidt et al. 1978a), and the nearshore area (Schmidt et al. 1978b, 1978c, 1978d). This data record contains the information on catch and size of young salmon and other species captured by 50-fathom purse seines in nearshore areas near Nanaimo in 1976.

METHODS

We described capture techniques, marking techniques, sampling locations, and sample treatment in detail in a previous report (Healey et al. 1977a). Four locations in the Nanaimo area were sampled in 1976 (Fig. 1). The purse seine used was 90 m long by 7.2 m deep with 6 mm (1/4 in) woven mesh in the bunt. This seine was usually set in shallow water (3-10 m), and was retrieved and pursed by hand.

Catches were sorted by species on board the vessel and the number of each species was counted or estimated. Estimates of total catch were made where catches were large to avoid excessive mortality. Household sieves with plastic mesh were used to scoop the catch out of the bag of the seine net and the number of sieves full of fish in the catch was counted. Several sieves full of fish were retained for a sample and the number of fish per sieve and the composition of the salmon catch were estimated from the sample. Salmon were the only species regularly counted, although estimates or counts of other species were usually recorded. A sample of the salmon species was returned to the lab to be examined for tags, for length and weight measurements, and for stomach content analysis. In 1976, chum fry were tagged with fluorescent grit during downstream migration in the Nanaimo River (Table 1).

An intensive study to determine the relationship between feeding habits and distribution of food supply was undertaken on three separate dates during June (4th, 10th, and 17th). Samples were taken about every two

hours at 10 locations [(1, 6, 7, 12, 13, 14, 18, 19, 24, 25), (Fig. 2)] within area 1 (Fig. 1). Prior to the intensive sampling on June 4 and 10, marked juvenile chum and pink (O. gorbuscha) were released into area 1 (Table 2), and recaptures recorded on June 4 and 10, as well as for samples taken in area 1 on intervening days. Food organisms were sampled at locations 1-24 within area 1 (Fig. 2) concurrently with fishing on June 4, 10, and 17. Temperature, salinity and current measurements were also made at locations 1-24. Data on food organisms, temperature, salinity and currents are not included in this report. Summaries of the catch, length, weight, and dry stomach content weights for fish captured during this intensive sampling are included in this report.

Each table summarizes the catch data from a single area or sub-area. Multiple sets in an area may be reported singly or summarized as one table. Where convenient several tables have been grouped on one page, with data for a new date starting at the top of a new page. Understanding the tables will be assisted by the following points:

1. TIME: Local time except for tide tables.
2. DEPTH: Depths were recorded in fathoms and converted to meters for this report.
3. WEATHER: Recorded when sets were made; daily summaries recorded under first entry for each new date - taken from Nanaimo (Cassidy) airport meteorological station.
4. TIDES: Times and heights of tides are those for Point Atkinson; tide information is recorded only under first entry for each new date.
5. CATCH: The total catch of a species is recorded. The number of marked fish in the total catch is recorded by color of mark or by type of fin clipped. Fry from our experiments were marked by spraying them with fluorescent grit during their downstream migration (Healey et al. 1977a). No catch record for a species indicates the species was present in the catch but its abundance was not recorded.
6. MARKED FISH: Samples of unmarked fish were analyzed separately. The summary of length, weight, and stomach information for unmarked fish is followed by the summary for each color of marked fish recaptured. Dates of release, number released, and weighted average day of release (calculated as Healey et al. 1977a) for each mark used in 1976 are shown in Table 1. Mean length and weight of downstream migrant chum fry was 36 mm and 0.41 g.
7. AVERAGE LENGTH: Average fork length and standard error.
8. WEIGHTS: Fish weights recorded were wet weights of preserved fish blotted to remove excess moisture. Individual marked fish were weighed and the standard error was calculated. Unmarked fish were usually weighed as a group or in groups and the average weight calculated.

9. STOMACH CONTENT: Dry weights of the stomach contents. The stomach contents of a group of fish were lumped together, dried, and weighed. The value recorded is the average dry weight per fish for the number of fish in the sample. % is percent of dry body weight where dry body weight is calculated as 20% of wet preserved weight.

ACKNOWLEDGMENTS

Some of the analyses of the fish was performed by technical assistance received under a contract with Envirocon, Ltd.

REFERENCES

- Healey, M. C., R. LeBrasseur, J. Sibert, W. E. Barracough, and J. C. Mason. 1976. Ecology of young salmon in Georgia Strait, p. 201-209. In G. Gunstrom [ed.] Proc. 1976 Northeast Pacific Pink and Chum Salmon Workshop.
- Healey, M. C., R. V. Schmidt, F. P. Jordan, and R. M. Hungar. 1977a. Juvenile salmon in the Nanaimo area 1975: 1. Distribution and abundance. Fish. Res. Board Can. MS Rep. 1369: 161 p.
- Healey, M. C., R. V. Schmidt, F. P. Jordan, and R. M. Hungar. 1977b. Juvenile salmon in the Nanaimo area 1975: 2. Length, weight, and growth. Fish. Mar. Serv. MS Rep. 1438: 147 p.
- Schmidt, R. V., M. C. Healey, F. P. Jordan, and R. M. Hungar. 1978a. Juvenile salmon and other fish species captured in the intertidal area of the Nanaimo River, 1975-1976. Fish. Mar. Serv. Data Rep. 90: 48 p.
- 1978b. Juvenile salmon and other fish species captured in intertidal areas near Nanaimo, 1975-1976. Fish. Mar. Serv. Data Rep. 111: 51 p.
- 1978c. Juvenile salmon and other fish species captured by 50-fathom purse seines in nearshore areas near Nanaimo, 1975. Fish. Mar. Serv. Data Rep. 119: 136 p.
- 1978d. Juvenile salmon and other fish species captured by 120-fathom purse seines in nearshore areas near Nanaimo, 1975. Fish. Mar. Serv. Data Rep. 128: 138 p.

Table 1. Dates of release, number released, and weighted average day of release of chum marked in the Nanaimo River during 1976.

Mark color	Number released	Dates of release	Average date of release
Red	75,248	April 07-April 19	April 15
Green	93,054	April 20-May 02	April 27
Blue	59,899	May 03 - May 24	May 09

Table 2. Dates of release and number released of marked chum and pink near the Biological Station in 1976 (Area 1).

Mark color	Date of release	Species	Number released
Red-green	June 3	Chum	3,306
		Pink	14,923
Blue-green	June 9	Chum	5,495
		Pink	6,641

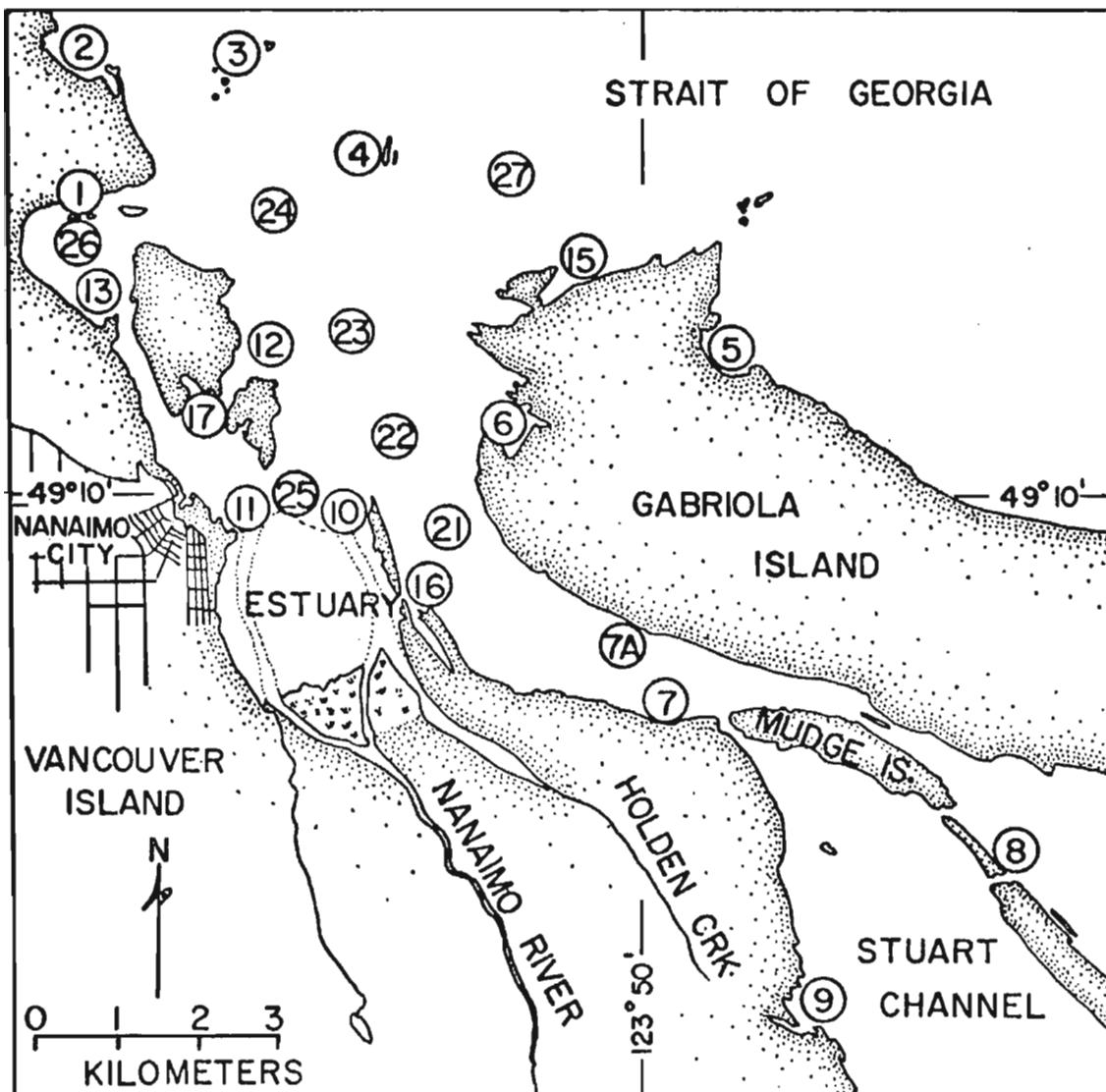


Fig. 1. Map of the study area showing sampling locations.

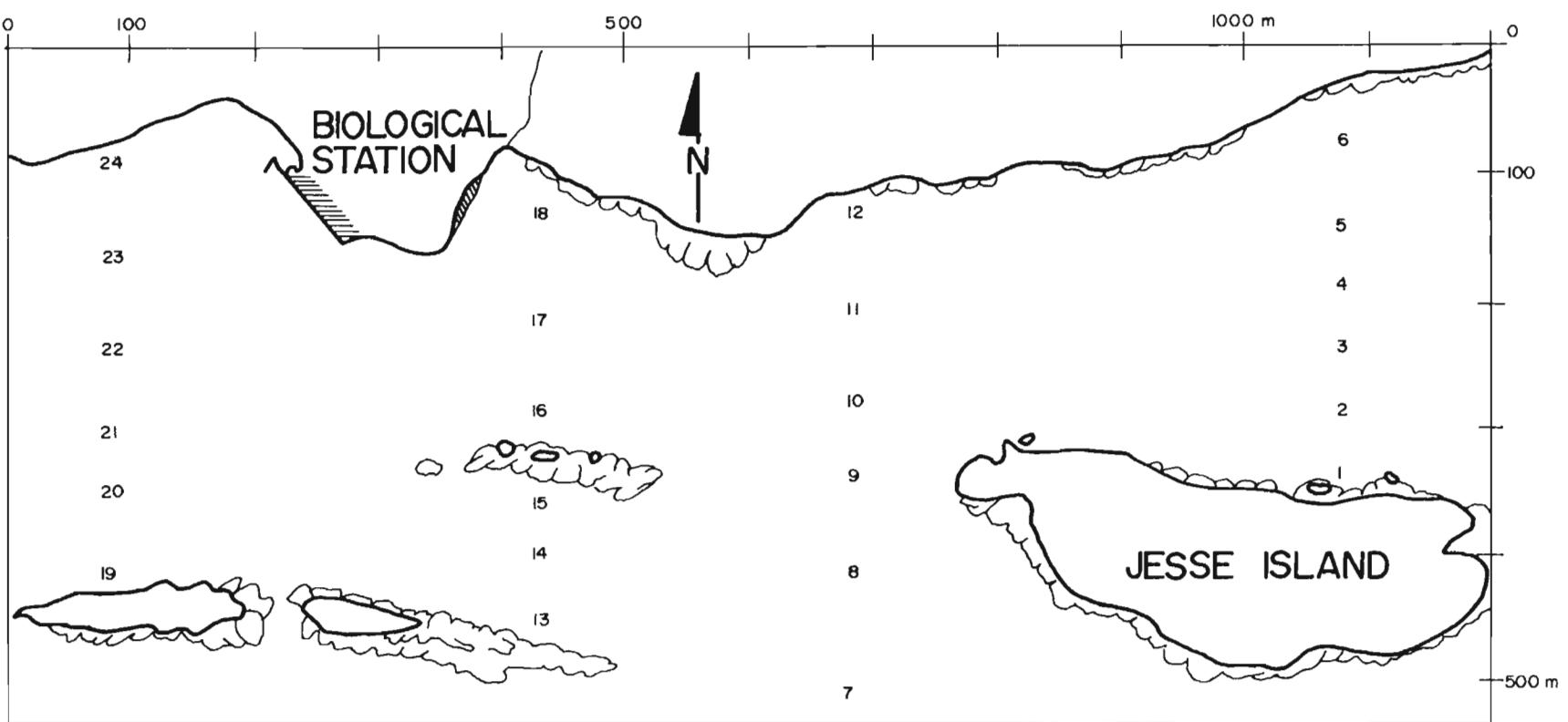


Fig. 2. Map of area 1 showing location of sub-area sampling locations.

- 7 -

20APR76 1100HR AREA 1 DEPTH 7 1 SET

50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	10.6	PST	FEET METERS
WIND DIRECTION	NW	MIN TEMP (C)	3.4	430	10.1 3.08
SPEED (KM/H)	8	PRECIP. (MM)	4.8	855	11.9 3.63
CLUUD (/10)	6	SUN (HR)	10.2	1605	4.2 1.28
SEA RIPPLE				2355	14.6 4.45

CHUM SALMON-UNCOHYNCHUS KETA		CATCH		1.
N=	1	AVERAGE LENGTH (MM)	35. S.E.	0.00
N=	1	AVERAGE WEIGHT (G)	0.28 S.E.	0.00

20APR76 1015HR AREA 17 DEPTH 7 1 SET

WEATHER: WIND DIRECTION NW CLOUD (/10) 7 SEA RIPPLE
AT SET: SPEED (KM/H) 16

NO CATCH

- 8 -

28APR76 1430HR AREA 1 DEPTH 7 1 SET
50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME	CLM	MAX TEMP (C)	21.7	PST	FEET METERS
WIND DIRECTION	CLM	MIN TEMP (C)	3.9	415	13.5 4.11
SPEED (KM/H)		PRECIP. (MM)	0.0	1055	4.4 1.34
CLOUD (/10)	0	SUN (HR)	11.9	1750	13.4 4.08
SEA CALM				2300	9.4 2.87

NO CATCH

28APR76 1345HR AREA 2 DEPTH 4-5 1 SET
HAMMOND BAY

WEATHER: WIND DIRECTION CLM CLOUD (/10) 0 SEA CALM
AT SET: SPEED (KM/H)

STARRY FLUUNDER-PLATICHTHYS STELLATUS CATCH 2.
PIPEFISHES-FAMILY SYNGNATHIDAE CATCH 2.

28APR76 1130HR AREA 17 DEPTH 5 1 SET
MARK BAY

WEATHER: WIND DIRECTION CLM CLOUD (/10) 0 SEA CALM
AT SET: SPEED (KM/H)

NO CATCH

6MAY76 1700HR AREA 1 DEPTH 5 1 SET
50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	17.8	PST	FEET METERS
WIND DIRECTION	CLM	MIN TEMP (C)	2.8	510	10.1 3.08
SPEED (KM/H)		PRECIP. (MM)	0.0	855	11.3 3.44
CLOUD (/10)	8	SUN (HR)	10.8	1610	4.8 1.46
SEA	CALM			2335	14.5 4.42

NO CATCH

6MAY76 1430HR AREA 2 DEPTH 7 1 SET
HAMMOND BAY

WEATHER: WIND DIRECTION CLM CLOUD (/10) 2 SEA CALM
AT SET: SPEED (KM/H)

NO CATCH

6MAY76 1600HR AREA 17 DEPTH 4 1 SET
MARK BAY

WEATHER: WIND DIRECTION CLM CLOUD (/10) 2 SEA CALM
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	GREEN RED
666.	5	4 1

UNMARKED FISH

GREEN STOMACH CONTENT	N= 50	AVERAGE LENGTH (MM)	52. S.E.	1.23
	N= 50	AVERAGE WEIGHT (G)	1.54 S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	12.8 %	4.17
RED	N= 4	AVERAGE LENGTH (MM)	38. S.E.	0.85
	N= 4	AVERAGE WEIGHT (G)	0.55 S.E.	0.04
	N= 1	AVERAGE LENGTH (MM)	55. S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	1.82 S.E.	0.00

PINK SALMON=ONCORHYNCHUS GORBUSCHA

STOMACH CONTENT	N= 50	AVERAGE LENGTH (MM)	51. S.E.	285. 0.76
	N= 50	AVERAGE WEIGHT (G)	1.28 S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	8.9 %	3.50

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

CATCH 3.

KELP GREENLING=HEXAGRAMMUS DECAGRANNUS

CATCH 2.

- 10 -

10MAY76 1400HR AREA 1 DEPTH 4-7 1 SET

50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY			TIDES		
AT SET TIME		MAX TEMP (C)	14.5	PST FEET METERS			
WIND DIRECTION	SE	MIN TEMP (C)	9.5	145	14.9	4.54	
SPEED (KM/H)	24	PRECIP. (MM)	3.6	840	5.4	1.65	
CLOUD (/10)	10	SUN (HR)	3.2	1505	12.6	3.84	
SEA RIPPLE				2020	8.2	2.50	

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 1345.
N= 50 AVERAGE LENGTH (MM) 56 S.E. 1.32
N= 50 AVERAGE WEIGHT (G) 2.12 S.E. 0.00
STOMACH CONTENT N= 20 AVERAGE WEIGHT (MG) 16.1 % 3.81

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* CATCH 18740.
N= 50 AVERAGE LENGTH (MM) 51 S.E. 0.94
N= 50 AVERAGE WEIGHT (G) 1.44 S.E. 0.00
STOMACH CONTENT N= 21 AVERAGE WEIGHT (MG) 8.1 % 2.81

GUNNELS-FAMILY PHOLIDAE

10MAY76 1430HR AREA 1 DEPTH 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 10 SEA LT CHP
AT SET: SPEED (KM/H) 24

LINGCOD-*OPHIODON ELUNGATUS* CATCH 2.

- 11 -

14 MAY 76 1030HR AREA 17 DEPTH 4 1 SET
50 FATHUM PURSE SEINES MARK BAY

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	17.3	PST	FEET METERS
WIND DIRECTION	NW	MIN TEMP (C)	6.7	435	15.1 4.60
SPEED (KM/H)	8-16	PRECIP. (MM)	0.0	1135	1.2 0.37
CLOUD (/10)	0	SUN (HR)	13.5	1845	15.4 4.69
SEA RIPPLE					

CHUM SALMON-*ONCORHYNCHUS KETA*

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
830.	3	GREEN

UNMARKED FISH

GREEN STOMACH CONTENT	N= 50	AVERAGE LENGTH (MM)	47	S.E.	0.55
	N= 50	AVERAGE WEIGHT (G)	1.09	S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	6.0	%	2.75
	N= 3	AVERAGE LENGTH (MM)	48	S.E.	1.20
	N= 3	AVERAGE WEIGHT (G)	1.08	S.E.	0.06

PINK SALMON-*ONCORHYNCHUS GORBUSCHA*

STOMACH CONTENT	N= 50	AVERAGE LENGTH (MM)	53	S.E.	4.99
	N= 50	AVERAGE WEIGHT (G)	1.52	S.E.	0.64
	N= 20	AVERAGE WEIGHT (MG)	4.7	%	0.00

18MAY76 1330HR AREA 1 DEPTH 4 1 SET
 50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY	PST	TIDES
AT SET TIME		MAX TEMP (C)	FEET	METERS
WIND DIRECTION	CLM	15.6	305	10.1
SPEED (KM/H)		2.3	730	12.4
CLOUD (/10)	2	PRECIP. (MM)	1435	3.2
SEA	CALM	SUN (HR)	2220	15.1

CHUM SALMON-*ONCORHYNCHUS KETA*
 NE 50 AVERAGE LENGTH (MM) 52 S.E. 187.
 NE 50 AVERAGE WEIGHT (G) 1.37 S.E. 0.62
 STOMACH CONTENT NE 20 AVERAGE WEIGHT (MG) 5.6 % 0.00
 PINK SALMON-*ONCORHYNCHUS GORBUSCHA*
 NE 50 AVERAGE LENGTH (MM) 51 S.E. 689.
 NE 50 AVERAGE WEIGHT (G) 1.37 S.E. 0.78
 STOMACH CONTENT NE 20 AVERAGE WEIGHT (MG) 7.9 % 0.00
 PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 4000.

18MAY76 1345HR AREA 1 DEPTH 7-11 2 SETS
 BIOLOGICAL STATION

WEATHER: AT SET:	WIND DIRECTION SPEED (KM/H)	NW 8	CLOUD (/10)	2	SEA	RIPPLE
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>						
NE 50	AVERAGE LENGTH (MM)	50	S.E.	CATCH	57.	
NE 50	AVERAGE WEIGHT (G)	1.34	S.E.		0.54	
STOMACH CONTENT NE 20	AVERAGE WEIGHT (MG)	11.2	%		0.00	
STOMACH CONTENT NE 20	AVERAGE WEIGHT (MG)	11.2	%		4.20	
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>						
NE 50	AVERAGE LENGTH (MM)	49	S.E.	CATCH	76.	
NE 50	AVERAGE WEIGHT (G)	1.22	S.E.		0.66	
STOMACH CONTENT NE 20	AVERAGE WEIGHT (MG)	9.5	%		0.00	
STOMACH CONTENT NE 20	AVERAGE WEIGHT (MG)	9.5	%		3.87	
LINGCOD- <i>OPHIODON ELONGATUS</i>						

- 13 -

18MAY76 1100HR AREA 17 DEPTH 4 2 SETS
MARK BAY

WEATHER: WIND DIRECTION NW CLOUD (/10) 2 SEA RIPPLE
AT SET: SPEED (KM/H) 8

CHUM SALMON-*ONCOURHYNCHUS KETA*
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
216. 1 1

UNMARKED FISH

	N= 50	AVERAGE LENGTH (MM)	51.8	S.E.	0.76
	N= 50	AVERAGE WEIGHT (G)	1,322	S.E.	0.00
GREEN	N= 40	AVERAGE WEIGHT (MG)	3.9	%	1.49
	N= 1	AVERAGE LENGTH (MM)	45.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	0.65	S.E.	0.00

PINK SALMON-*ONCOURHYNCHUS GORBUSCHA*
N= 30 AVERAGE LENGTH (MM) 54.8 S.E. 99.
N= 30 AVERAGE WEIGHT (G) 1,569 S.E. 1.12
STOMACH CONTENT N= 20 AVERAGE WEIGHT (MG) 5.3 % 0.00 1.65

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI*

TUBE SNOUTS-FAMILY AULORHYNCHIDAE

FLOUNDERS-GENERAL

LINGCOD-*OPHIODON ELONGATUS*

KELP GREENLING-*HEXAGRAMMOS DECAGRAMMUS*

SCULPINS-FAMILY COTTIDAE

GUNNELS-FAMILY PHOLIDAE

PRICKLEBACKS-FAMILY STICHAEIDAE

ARROW GOBY-*CLEVELANDIA IOS*

27MAY76 1520HR AREA 1 DEPTH 7 3 SETS
50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS AT SET TIME		SUMMARY FOR DAY		PST	TIDES FEET	METERS
WIND DIRECTION	NW	MAX TEMP (C)	15.6	300	13.4	4.08
SPEED (KM/H)	16	MIN TEMP (C)	6.2	1020	3.5	1.07
CLODD (/10)	9	PRECIP. (MM)	1.5	1755	13.8	4.21
SEA LT CHP		SUN (HR)	10.2	2255	10.8	3.29

CHUM SALMON-*ONCORHYNCHUS KETA*
 NE 50 AVERAGE LENGTH (MM) 63 S.E. 0.82
 NE 50 AVERAGE WEIGHT (G) 2.60 S.E. 0.00
STOMACH CONTENT NE 20 AVERAGE WEIGHT (MG) 11.9 % 2.29

PINK SALMON-*ONCORHYNCHUS GORBUSCHA*
 NE 50 AVERAGE LENGTH (MM) 66 S.E. 1.24
 NE 50 AVERAGE WEIGHT (G) 3.10 S.E. 0.00
STOMACH CONTENT NE 20 AVERAGE WEIGHT (MG) 12.8 % 2.07

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI*

LINGCOD-*OPHIODON ELONGATUS*

27MAY76 1310HR AREA 17 DEPTH 5 1 SET
MARK BAY

WEATHER: WIND DIRECTION NW CLOUD (/10) 7 SEA RIPPLE
AT SET: SPEED (KM/H) 16

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI*

LINGCOD-*OPHIODON ELONGATUS*

3JUN76 1600HR AREA 1 DEPTH 5-7 1 SET
50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	16.2	PST	FEET METERS
WIND DIRECTION	CLM	MIN TEMP (C)	2.8	330	9.9 3.02
SPEED (KM/H)	0	PRECIP. (MM)	0.3	750	11.8 3.60
CLOUD (/10)	2	SUN (HR)	9.1	1455	4.1 1.25
SEA CALM				2205	15.0 4.57

CHUM SALMON-*ONCORHYNCHUS KETA*

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	RED/GR
735.	9	9

UNMARKED FISH

RED/GR STOMACH CONTENT	N= 50	AVERAGE LENGTH (MM)	61.	S.E.	1.21
	N= 50	AVERAGE WEIGHT (G)	2.44	S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	19.0	%	3.90
	N= 3	AVERAGE LENGTH (MM)	47.	S.E.	1.15
	N= 3	AVERAGE WEIGHT (G)	0.94	S.E.	0.08

PINK SALMON-*ONCORHYNCHUS GORBUSCHA*

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	RED/GR
569.	6	6

UNMARKED FISH

RED/GR STOMACH CONTENT	N= 50	AVERAGE LENGTH (MM)	57.	S.E.	1.05
	N= 50	AVERAGE WEIGHT (G)	1.88	S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	9.4	%	2.51
	N= 2	AVERAGE LENGTH (MM)	51.	S.E.	9.00
	N= 2	AVERAGE WEIGHT (G)	1.32	S.E.	0.68

PACIFIC SAND LANCE-*AMMODYTES HEXAPTERUS*

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI*

LINGCOD-*OPIODON ELONGATUS*

3JUN76	1400HR	AREA 2 HAMMOND BAY	DEPTH 4	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLM	CLOUD (/10)	3 SEA	CALM
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>			CATCH	56.
N= 50	AVERAGE LENGTH (MM)	62.	S.E.	1.56
N= 50	AVERAGE WEIGHT (G)	2.69	S.E.	0.00
STOMACH CONTENT N= 20	AVERAGE WEIGHT (MG)	22.3	%	4.15
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>			CATCH	473.
N= 50	AVERAGE LENGTH (MM)	61.	S.E.	0.94
N= 50	AVERAGE WEIGHT (G)	2.48	S.E.	0.00
STOMACH CONTENT N= 20	AVERAGE WEIGHT (MG)	35.9	%	7.25
TUBE SNOTS-FAMILY AULORHYNCHIDAE				
KELP GREENLING- <i>HEXAGRAMMOS DECAGRAMMUS</i>				
LINGCOD- <i>OPHIODON ELONGATUS</i>				
SHINER PERCH- <i>CYMATUGASTER AGGREGATA</i>				

3JUN76	1500HR	AREA 17 MARK BAY	DEPTH 2-5	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	S	CLOUD (/10)	2 SEA	RIPPLE
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>			CATCH	22.
N= 22	AVERAGE LENGTH (MM)	54.	S.E.	1.71
N= 22	AVERAGE WEIGHT (G)	1.70	S.E.	0.00
STOMACH CONTENT N= 20	AVERAGE WEIGHT (MG)	6.2	%	1.82
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>			CATCH	8.
N= 8	AVERAGE LENGTH (MM)	54.	S.E.	2.18
N= 8	AVERAGE WEIGHT (G)	1.50	S.E.	0.00
STOMACH CONTENT N= 8	AVERAGE WEIGHT (MG)	1.6	%	0.53
STICKLEBACKS-FAMILY GASTEROSTEIDAE				
SHINER PERCH- <i>CYMATUGASTER AGGREGATA</i>				
PILE PERCH- <i>RHACOCHILUS VACCA</i>				
STRIPED SEAPERCH- <i>EMBIOTICA LATERALIS</i>				
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>				
KELP GREENLING- <i>HEXAGRAMMOS DECAGRAMMUS</i>				
FLOUNDERS-GENERAL				
SCULPINS-FAMILY COTTIIDAE				
GUNNELS-FAMILY PHOLIDAE				

4JUN76 845HR AREA 1 SUBAREA 1 1 SET
50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	17.3	PST	FEET METERS
WIND DIRECTION		MIN TEMP (C)	6.2	435	9.1 2.77
SPEED (KM/H)		PRECIP. (MM)	0.0	910	11.3 3.44
CLOUD (/10)		SUN (HR)	7.7	1530	5.2 1.58
SEA				2245	15.1 4.60

CHUM SALMON=ONCORHYNCHUS KETA

TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
123. 2 2

UNMARKED FISH

GREEN STOMACH CONTENT	NE 10	AVERAGE LENGTH (MM)	67.	S.E.	2.11
	NE 10	AVERAGE WEIGHT (G)	2.97	S.E.	0.28
	NE 10	AVERAGE WEIGHT (MG)	29.9	S.E.	5.03
	NE 2	AVERAGE LENGTH (MM)	63.	S.E.	6.00
	NE 2	AVERAGE WEIGHT (G)	2.50	S.E.	0.66

PINK SALMON=ONCORHYNCHUS GORBUSCHA

TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
115. 1 1

UNMARKED FISH

RED/GR	NE 10	AVERAGE LENGTH (MM)	73	S.E.	2.42
	NE 10	AVERAGE WEIGHT (G)	3.89	S.E.	0.38
	NE 1	AVERAGE LENGTH (MM)	62	S.E.	0.00
	NE 1	AVERAGE WEIGHT (G)	2.00	S.E.	0.00

LINGCOD=OPHIODON ELONGATUS

CATCH 11.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

CATCH 2.

4JUN76 1130HR AREA 1 SUBAREA 1 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 618.
N= 10 AVERAGE LENGTH (MM) 69. S.E. 2.34
N= 10 AVERAGE WEIGHT (G) 3.44 S.E. 0.37
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 46.4 % 6.74

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR 684. 12 12

UNMARKED FISH
RED/GR STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 66. S.E. 4.96
N= 10 AVERAGE WEIGHT (G) 3.17 S.E. 0.80
N= 10 AVERAGE WEIGHT (MG) 8.8 % 1.39
N= 2 AVERAGE LENGTH (MM) 53. S.E. 0.00
N= 2 AVERAGE WEIGHT (G) 1.26 S.E. 0.14

LINGCOD-*OPHIODON ELONGATUS* CATCH 162.

4JUN76 1350HR AREA 1 SUBAREA 1 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* CATCH 117.
N= 10 AVERAGE LENGTH (MM) 61. S.E. 1.35
N= 10 AVERAGE WEIGHT (G) 1.98 S.E. 0.15
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 19.4 % 4.89

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 139.
N= 10 AVERAGE LENGTH (MM) 69. S.E. 2.78
N= 10 AVERAGE WEIGHT (G) 3.52 S.E. 0.49
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 29.5 % 4.19

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 57.

LINGCOD-*OPHIODON ELONGATUS* CATCH 1.

STICKLEBACKS-FAMILY GASTEROSTEIDAE CATCH 1.

4JUN76	615HH	AREA 1 SUBAREA 6 BIOLOGICAL STATION	CLOUD (/10)	SEA	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)					
CHUM SALMON=ONCORHYNCHUS KETA					
		N= 10 AVERAGE LENGTH (MM)	77.	S.E.	132.
		N= 10 AVERAGE WEIGHT (G)	5.18	S.E.	5.02
		STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)	6.7	%	0.93
					0.65
PINK SALMON=ONCORHYNCHUS GORBUSCHA					
		TOTAL TOTAL CATCH BY TYPE OF MARK			
		CATCH MARKS RED/GR			
		273. 3 3			
UNMARKED FISH					
		N= 10 AVERAGE LENGTH (MM)	78.	S.E.	2.84
		N= 10 AVERAGE WEIGHT (G)	4.43	S.E.	0.52
RED/GR STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)		3.1	%	0.35	
		N= 1 AVERAGE LENGTH (MM)	54.	S.E.	0.00
		N= 1 AVERAGE WEIGHT (G)	1.48	S.E.	0.00
PACIFIC HERRING=CLUPEA HARENGUS PALLASI					CATCH 33.
LINGCOD=OPHIODON ELONGATUS					CATCH 77.

4JUN76	905HH	AREA 1 SUBAREA 6 BIOLOGICAL STATION	CLOUD (/10)	SEA	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)					
CHUM SALMON=ONCORHYNCHUS KETA					
		TOTAL TOTAL CATCH BY TYPE OF MARK			
		CATCH MARKS RED/GR			
		49. 1 1			
UNMARKED FISH					
		N= 10 AVERAGE LENGTH (MM)	76.	S.E.	3.65
		N= 10 AVERAGE WEIGHT (G)	4.71	S.E.	0.67
RED/GR STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)		22.6	%	2.40	
		N= 1 AVERAGE LENGTH (MM)	57.	S.E.	0.00
		N= 1 AVERAGE WEIGHT (G)	1.70	S.E.	0.00
PINK SALMON=ONCORHYNCHUS GORBUSCHA					CATCH 64.
		N= 10 AVERAGE LENGTH (MM)	70.	S.E.	2.65
		N= 10 AVERAGE WEIGHT (G)	3.56	S.E.	0.43
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)		20.0	%	2.81	
SOCKEYE SALMON=ONCORHYNCHUS NERKA					CATCH 1.
LINGCOD=OPHIODON ELONGATUS					CATCH 116.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI					CATCH 3.
NORTHERN ANCHOVY=ENGRAULIS MORDAK MORDAX					CATCH 1.

4JUN76 1150HR AREA 1 SUBAREA 6
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>	N= 10	AVERAGE LENGTH (MM)	61.	CATCH S.E.	150. 3.47
STOMACH CONTENT	N= 20	AVERAGE WEIGHT (G)	2.25	S.E.	1.12
	N= 20	AVERAGE WEIGHT (MG)	19.2	%	4.28
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>	N= 10	AVERAGE LENGTH (MM)	69.	CATCH S.E.	225. 1.41
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	3.31	S.E.	0.21
	N= 10	AVERAGE WEIGHT (MG)	47.5	%	7.17
LINGCOD- <i>OPHIODON ELONGATUS</i>				CATCH	480.
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>				CATCH	105.

4JUN76 1420HR AREA 1 SUBAREA 6 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>	N= 10	AVERAGE LENGTH (MM)	67.	CATCH S.E.	283. 2.55
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	2.87	S.E.	0.39
	N= 10	AVERAGE WEIGHT (MG)	5.9	%	1.03
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>	TOTAL CATCH	TOTAL BY TYPE OF MARK			
CATCH	MARKS	GREEN			
143.	2	2			
UNMARKED FISH	N= 10	AVERAGE LENGTH (MM)	67.	S.E.	3.22
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	3.10	S.E.	0.44
GREEN	N= 10	AVERAGE WEIGHT (MG)	19.1	%	3.08
	N= 2	AVERAGE LENGTH (MM)	69.	S.E.	7.00
	N= 2	AVERAGE WEIGHT (G)	3.44	S.E.	1.20
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>	N= 45	AVERAGE LENGTH (MM)	95.	S.E.	45. 1.54
LINGCOD- <i>OPHIODON FLUOGATUS</i>				CATCH	3.
STICKLEBACKS-FAMILY GASTEROSTEIDAE				CATCH	1.

4JUN76 640HR AREA 1 SUBAREA 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
176. 3 3

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	66	S.E.	2.90
	N= 10	AVERAGE WEIGHT (G)	2.83	S.E.	0.37
RED/GR STOMACH CONTENT	N= 10	AVERAGE WEIGHT (MG)	2.5	%	0.44
	N= 3	AVERAGE LENGTH (MM)	56	S.E.	3.79
	N= 3	AVERAGE WEIGHT (G)	1.38	S.E.	0.31

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
50. 1 1

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	72	S.E.	3.65
	N= 10	AVERAGE WEIGHT (G)	4.13	S.E.	0.64
GREEN STOMACH CONTENT	N= 10	AVERAGE WEIGHT (MG)	9.1	%	1.10
	N= 1	AVERAGE LENGTH (MM)	61	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.03	S.E.	0.00

LINGCOD=OPHIODON ELONGATUS CATCH 5.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.

4JUN76 925HR AREA 1 SUBAREA 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 10.

CHUM SALMON=ONCORHYNCHUS KETA CATCH 11.
N= 10 AVERAGE LENGTH (MM) 71 S.E. 3.59
N= 10 AVERAGE WEIGHT (G) 4.00 S.E. 0.62
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 21.4 % 2.68

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 1.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.

4JUN76 1200HR AREA 1 SUBAREA 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED
172. 2 2

UNMARKED FISH

RED STOMACH CONTENT	N= 10	AVERAGE LENGTH (MM)	77.	S.E.	2.45
	N= 10	AVERAGE WEIGHT (G)	471	S.E.	0.48
	N= 10	AVERAGE WEIGHT (MG)	45.2	%	4.80
	N= 1	AVERAGE LENGTH (MM)	97.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	9.86	S.E.	0.00

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
98. 1 1

LINGCOD=OPHIODON ELONGATUS CATCH 2.

4JUN76 1435HR AREA 1 SUBAREA 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
98. 1 1

UNMARKED FISH

STOMACH CONTENT	N= 10	AVERAGE LENGTH (MM)	71.	S.E.	1.85
	N= 10	AVERAGE WEIGHT (G)	3.62	S.E.	0.26
	N= 10	AVERAGE WEIGHT (MG)	21.4	%	2.96

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
98. 1 1

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 5.
LINGCOD=OPHIODON ELONGATUS CATCH 2.

- 23 -

4JUN76 700HR AREA 1 SUBAREA 12 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
684. 4 4

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	72	S.E.	2.61
	N= 10	AVERAGE WEIGHT (G)	3.75	S.E.	0.44
RED/GR	N= 10	AVERAGE WEIGHT (MG)	3.1	%	0.41
	N= 1	AVERAGE LENGTH (MM)	51	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	1.18	S.E.	0.00

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
340. 12 12

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	64	S.E.	2.25
	N= 10	AVERAGE WEIGHT (G)	2.69	S.E.	0.26
RED/GR	N= 3	AVERAGE LENGTH (MM)	47	S.E.	3.28
	N= 3	AVERAGE WEIGHT (G)	1.02	S.E.	0.26

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 7.
LINGCOD=OPHIODON ELONGATUS CATCH 75.

4JUN76 945HR AREA 1 SUBAREA 12 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA
N= 10 AVERAGE LENGTH (MM) CATCH 80.
N= 10 AVERAGE WEIGHT (G) 1.12
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 0.18
0.52

CHUM SALMON=ONCORHYNCHUS KETA
N= 10 AVERAGE LENGTH (MM) CATCH 62.
N= 10 AVERAGE WEIGHT (G) 2.35
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 0.41
1.81

LINGCOD=OPHIODON ELONGATUS CATCH 240.

TUBE SNOUTS=FAMILY AULORHYNCHIDAE CATCH 2.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 1.

4JUN76 1215HR AREA 1 SUBAREA 12 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 473.
N= 10 AVERAGE LENGTH (MM) 69. S.E. 3.44
N= 10 AVERAGE WEIGHT (G) 3.39 S.E. 0.57
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 15.5 % 2.29

CHUM SALMON=ONCORHYNCHUS KETA TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED
468. 5 S

UNMARKED FISH
RED STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 78. S.E. 3.01
N= 10 AVERAGE WEIGHT (G) 5.02 S.E. 0.70
N= 10 AVERAGE WEIGHT (MG) 26.5 % 2.64
N= 1 AVERAGE LENGTH (MM) 82. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 6.68 S.E. 0.00

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 33.

LINGCOD=OPHIODON ELONGATUS CATCH 28.

STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 6.

PACIFIC SAND LANCE=AMMODYTES HEXAPTERUS CATCH 6.

4JUN76 1450HR AREA 1 SUBAREA 12 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA CATCH 41.
N= 10 AVERAGE LENGTH (MM) 67. S.E. 4.59
N= 10 AVERAGE WEIGHT (G) 3.27 S.E. 0.62
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 27.1 % 4.14

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 94.
N= 10 AVERAGE LENGTH (MM) 74. S.E. 2.45
N= 10 AVERAGE WEIGHT (G) 4.00 S.E. 0.41
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 9.6 % 1.20

LINGCOD=OPHIODON ELONGATUS CATCH 133.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.

CHINOOK SALMON=ONCORHYNCHUS TSCHAWYTSCHA CATCH 1.

4JUN76	720HR	AREA 1 SUBAREA 14 BIOLOGICAL STATION	CLOUD (/10)	SEA
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)				
PINK SALMON=ONCORHYNCHUS GORBUSCHA		N= 10 AVERAGE LENGTH (MM)	57.	CATCH 34. S.E. 3.42
		N= 10 AVERAGE WEIGHT (G)	1.68	S.E. 0.37
STOMACH CONTENT		N= 10 AVERAGE WEIGHT (MG)	3.3	% 0.98
CHUM SALMON=ONCORHYNCHUS KETA		TOTAL CATCH BY TYPE OF MARK		
		TOTAL MARKS RED/GR		
		19. 1 1		
UNMARKED FISH		N= 10 AVERAGE LENGTH (MM)	57.	CATCH 2.64 S.E. 0.26
		N= 10 AVERAGE WEIGHT (G)	1.83	S.E. 1.67
STOMACH CONTENT		N= 10 AVERAGE WEIGHT (MG)	6.1	%
RED/GR		N= 1 AVERAGE LENGTH (MM)	52.	S.E. 0.00
		N= 1 AVERAGE WEIGHT (G)	1.27	S.E. 0.00
CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA		N= 1 AVERAGE LENGTH (MM)	164.	CATCH 4. S.E. 0.00
		N= 1 AVERAGE WEIGHT (G)	55.73	S.E. 0.00
STOMACH CONTENT		N= 1 AVERAGE WEIGHT (MG)	124.1	% 1.11
COHO SALMON=ONCORHYNCHUS KISUTCH		CATCH 2.		
LINGCOD=OPHIODON ELONGATUS		CATCH 6.		

4JUN76	955HR	AREA 1 SUBAREA 14 BIOLOGICAL STATION	1 SET	
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10)	SEA	
CHUM SALMON=ONCORHYNCHUS KETA		N= 10 AVERAGE LENGTH (MM)	77.	CATCH 26. S.E. 3.90
		N= 10 AVERAGE WEIGHT (G)	5.02	S.E. 0.90
PINK SALMON=ONCORHYNCHUS GORBUSCHA		N= 10 AVERAGE LENGTH (MM)	80.	CATCH 37. S.E. 2.29
		N= 10 AVERAGE WEIGHT (G)	4.82	S.E. 0.45
STOMACH CONTENT		N= 10 AVERAGE WEIGHT (MG)	25.8	% 2.67
PACIFIC HERRING=CLUPEA HARENGUS PALLASI		CATCH 220.		

- 26 -

4JUN76 1230HR AREA 1 SUBAREA 14 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
75. 5 5

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	60.	S.E.	1.97
	N= 10	AVERAGE WEIGHT (G)	2.06	S.E.	0.25
RED/GR	N= 10	AVERAGE WEIGHT (MG)	18.4	%	4.46
	N= 1	AVERAGE LENGTH (MM)	51.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	1.11	S.E.	0.00

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
315. 5 5

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	71.	S.E.	2.91
	N= 10	AVERAGE WEIGHT (G)	3.87	S.E.	0.60
GREEN	N= 10	AVERAGE WEIGHT (MG)	34.9	%	4.51
	N= 1	AVERAGE LENGTH (MM)	73.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	4.12	S.E.	0.00

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 245.

4JUN76 1455HR AREA 1 SUBAREA 14 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 25.

4JUN76 745HR AREA 1 SUBAREA 18 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLOUD (/10)	SEA	
PINK SALMON=ONCORHYNCHUS GORBUSCHA STOMACH CONTENT	N= 5 AVERAGE WEIGHT (G) N= 5 AVERAGE WEIGHT (MG)	1.47 S.E. 1.2 %	CATCH 5. 1.47 0.41
CHUM SALMON=ONCORHYNCHUS KETA	N= 4 AVERAGE LENGTH (MM) N= 4 AVERAGE WEIGHT (G)	58. S.E. 1.88 S.E.	CATCH 4. 6.51 0.65
KELP GREENLING=HEXAGRAMMUS DECAGRAMMUS			CATCH 2.
LINGCOD=OPHIODON ELONGATUS			CATCH 1.
SCORPIOFISHES=FAMILY SCORPAENIDAE			CATCH 1.
GUNNELS=FAMILY PHOLIDAE			CATCH 1.

4JUN76 1015HR AREA 1 SUBAREA 18 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLOUD (/10)	SEA	
CHUM SALMON=ONCORHYNCHUS KETA	N= 10 AVERAGE LENGTH (MM) N= 10 AVERAGE WEIGHT (G)	75. S.E. 4.55 S.E.	CATCH 39. 2.25 0.43
PINK SALMON=ONCORHYNCHUS GORBUSCHA STOMACH CONTENT	N= 10 AVERAGE LENGTH (MM) N= 10 AVERAGE WEIGHT (G) N= 10 AVERAGE WEIGHT (MG)	78. S.E. 4.68 S.E. 10.0 %	CATCH 58. 2.76 0.55 1.07
LINGCOD=OPHIODON ELONGATUS			CATCH 311.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI			CATCH 1.
STICKLEBACKS=FAMILY GASTEROSTEIDAE			CATCH 4.

4JUN76 1300HR AREA 1 SUBAREA 18 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLOUD (/10)	SEA	
LINGCOD=OPHIODON ELONGATUS			CATCH 4.
SHINER PERCH=CYMATOGASTER AGGREGATA			
PRICKLEBACKS=FAMILY STICHLAEIDAE			

- 28 -

4JUN76	805HR	AREA 1 SUBAREA 19 BIOLOGICAL STATION	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10)	SEA
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>		N= 1 AVERAGE LENGTH (MM)	CATCH 1. S.E. 0.00
		N= 1 AVERAGE WEIGHT (G)	56.1 S.E. 0.00
4JUN76	1030HR	AREA 1 SUBAREA 19 BIOLOGICAL STATION	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10)	SEA
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>		CATCH	50.
4JUN76	1315HR	AREA 1 SUBAREA 19 BIOLOGICAL STATION	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10)	SEA
CHUM SALMON- <i>UNCORHYNCHUS KETA</i>		N= 3 AVERAGE LENGTH (MM)	CATCH 16. S.E. 6.39
		N= 3 AVERAGE WEIGHT (G)	3.95 S.E. 1.01
PINK SALMON- <i>UNCORHYNCHUS GORBUSCHA</i>		CATCH	6.
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>		N= 87 AVERAGE LENGTH (MM)	CATCH 478. S.E. 1.05

4JUN76 825HR AREA 1 SUBAREA 24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
59. 1 1

UNMARKED FISH

GREEN STOMACH CONTENT	N= 10	AVERAGE LENGTH (MM)	71.	S.E.	3.46
	N= 10	AVERAGE WEIGHT (G)	3.80	S.E.	0.58
	N= 10	AVERAGE WEIGHT (MG)	20.5	%	2.69
	N= 1	AVERAGE LENGTH (MM)	70.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	3.05	S.E.	0.00

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL CATCH
N= 10 AVERAGE LENGTH (MM) 78. S.E. 63.
N= 10 AVERAGE WEIGHT (G) 4.70 S.E. 1.91
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 4.6 % 0.41 0.49

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 7.

4JUN76 1045HR AREA 1 SUBAREA 24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL CATCH
N= 10 AVERAGE LENGTH (MM) 77. S.E. 135.
N= 10 AVERAGE WEIGHT (G) 4.97 S.E. 3.78
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 25.6 % 0.89 2.57

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL CATCH
N= 10 AVERAGE LENGTH (MM) 77. S.E. 165.
N= 20 AVERAGE WEIGHT (G) 4.13 S.E. 2.05
STOMACH CONTENT N= 20 AVERAGE WEIGHT (MG) 12.2 % 1.82 1.48

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 23.

4JUN76 1335HR AREA 1 SUBAREA 24 1 SET
WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 80.
N= 10 AVERAGE LENGTH (MM) 78. S.E. 2.54
N= 10 AVERAGE WEIGHT (G) 4.48 S.E. 0.39
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 17.8 % 1.99

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
98. 1 1

UNMARKED FISH
GREEN STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 77. S.E. 2.36
N= 10 AVERAGE WEIGHT (G) 4.55 S.E. 0.47
N= 10 AVERAGE WEIGHT (MG) 21.6 % 2.37
N= 1 AVERAGE LENGTH (MM) 70. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 3.86 S.E. 0.00

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.
LINGCOD=OPHIODON ELONGATUS CATCH 1.

4JUN76 1100HR AREA 1 SUBAREA 25 1 SET
WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 82.
N= 10 AVERAGE LENGTH (MM) 76. S.E. 1.36
N= 10 AVERAGE WEIGHT (G) 4.22 S.E. 0.23

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
73. 1 1

UNMARKED FISH
GREEN STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 74. S.E. 3.42
N= 10 AVERAGE WEIGHT (G) 4.49 S.E. 0.63
N= 1 AVERAGE LENGTH (MM) 54. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.68 S.E. 0.00

LINGCOD=OPHIODON ELONGATUS CATCH 43.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 14.

5JUN76 1000HR AREA 1 SUBAREA 25 5 SEIS
50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	20.0	PST	FEET METERS
WIND DIRECTION		MIN TEMP (C)	5.0	530	8.1 2.47
SPEED (KM/H)		PRECIP. (MM)	0.0	1040	10.9 3.32
CLOUD (/10)		SUN (HR)	13.5	1635	6.5 1.98
SEA				2340	15.1 4.60

PACIFIC HERRING-CLUPEA HARENGUS PALLASI CATCH 112.
N= 76 AVERAGE LENGTH (MM) 86. S.E. 0.65

LINGCOD-OPHIODON ELONGATUS CATCH 74.

CHUM SALMON-ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
80. 2 2

UNMARKED FISH
STOMACH CONTENT N= 20 AVERAGE WEIGHT (G) 4.32 S.E. 2.98
GREEN N= 20 AVERAGE WEIGHT (MG) 17.3 % 2.00
N= 2 AVERAGE LENGTH (MM) 75. S.E. 0.00
N= 2 AVERAGE WEIGHT (G) 4.17 S.E. 0.00

PINK SALMON-ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
56. 2 2

UNMARKED FISH
STOMACH CONTENT N= 10 AVERAGE WEIGHT (G) 4.66 S.E. 4.66
RED/GR N= 10 AVERAGE WEIGHT (MG) 11.6 % 1.25
N= 2 AVERAGE LENGTH (MM) 50. S.E. 3.00
N= 2 AVERAGE WEIGHT (G) 1.00 S.E. 0.13

PIPEFISHES-FAMILY SYNGNATHIDAE CATCH 1.

COHO SALMON-ONCORHYNCHUS KISUTCH CATCH 1.

PACIFIC SAND LANCE-AMMODYTES HEXAPTERUS CATCH 1.

CHINOOK SALMON-ONCORHYNCHUS ISHAWYTSCHA
N= 1 AVERAGE LENGTH (MM) 116. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 18.72 S.E. 0.00
STOMACH CONTENT N= 1 AVERAGE WEIGHT (MG) 60.5 % 1.62

6JUN76 1000HR AREA 1 SUBAREA 25 5 SETS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		PST	FEET	METERS
AT SET TIME		MAX TEMP (C)	21.2	640	6.8	2.07
WIND DIRECTION	NW	MIN TEMP (C)	8.9	1220	11.0	3.35
SPEED (KM/H)	8-16	PRECIP. (MM)	0.0	1730	7.8	2.38
CLOUD (/10)		SUN (HR)	9.0			
SEA						

CHUM SALMON=ONCORHYNCHUS KETA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	GREEN RED/GR
411.	11	2 9

UNMARKED FISH

GREEN STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	2.75	S.E.	2.75
	N= 10	AVERAGE WEIGHT (MG)	20.0	%	3.64
RED/GR	N= 2	AVERAGE LENGTH (MM)	53	S.E.	7.50
	N= 2	AVERAGE WEIGHT (G)	1.42	S.E.	0.70
	N= 8	AVERAGE LENGTH (MM)	57	S.E.	3.14
	N= 8	AVERAGE WEIGHT (G)	1.77	S.E.	0.32

PINK SALMON=ONCORHYNCHUS GORBUSCHA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	RED/GR
1156.	7	7

UNMARKED FISH

RED/GR STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	2.04	S.E.	2.04
	N= 10	AVERAGE WEIGHT (MG)	7.5	%	1.84
	N= 7	AVERAGE LENGTH (MM)	52	S.E.	1.57
	N= 7	AVERAGE WEIGHT (G)	1.14	S.E.	0.11

SURF SMELT=HYPOMESES PRETIOSUS PRETIOSUS

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

LINGCOD=OPHIODON ELONGATUS

PACIFIC SAND LANCE=AMMODYTES HEXAPTERUS

SHINER PERCH=CYMATOGASTER AGGREGATA

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 18.

CHINOOK SALMON=ONCORHYNCHUS ISHAWYTSCHA	CATCH	2.		
	N= 1 AVERAGE LENGTH (MM)	124	S.E.	0.00
	N= 1 AVERAGE WEIGHT (G)	21.35	S.E.	0.00
STOMACH CONTENT	N= 1 AVERAGE WEIGHT (MG)	82.4	%	1.93

GUNNELS=FAMILY PHOLIDAE

KELP GREENLING=HEXAGRAMMUS DECAGRANNUS

7JUN76 1100HR AREA 1 3 SEIS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		PST	FEET	METERS
WIND DIRECTION	AT SET TIME	MAX TEMP (C)	22.8	20	15.2	4.63
SPEED (KM/H)		MIN TEMP (C)	5.6	725	5.5	1.68
CLOUD (/10)		PRECIP. (MM)	0.0	1350	11.7	3.57
SEA		SUN (HR)	11.4	1850	8.9	2.71

PINK SALMON=UNCURHYNCHUS GORBUSCHA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	RED/GR BL/GR
7323.	42	42 6641

UNMARKED FISH

RED/GR	N= 30	AVERAGE LENGTH (MM)	6.9	S.E.	1.10
	N= 30	AVERAGE WEIGHT (G)	3.10	S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	5.7	S.E.	0.92
BL/GR	N= 2	AVERAGE LENGTH (MM)	5.7	S.E.	0.50
	N= 2	AVERAGE WEIGHT (G)	1.48	S.E.	0.15
	N= 27	AVERAGE WEIGHT (G)	2.19	S.E.	2.19

CHUM SALMON=UNCURHYNCHUS KETA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	GREEN BL/GR
6289.	21	21 5495

UNMARKED FISH

GREEN	N= 30	AVERAGE LENGTH (MM)	6.4	S.E.	1.50
	N= 30	AVERAGE WEIGHT (G)	2.97	S.E.	0.00
	N= 20	AVERAGE WEIGHT (MG)	33.3	S.E.	5.61
BL/GR	N= 1	AVERAGE LENGTH (MM)	6.3	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.43	S.E.	0.00
	N= 9	AVERAGE WEIGHT (G)	3.30	S.E.	3.30

NOTE: SALMON CAUGHT IN THIS SET WERE MARKED WITH
BLUE/GREEN GRIT FOR RELEASE 090676.

8JUN76 1515HR AREA 1 SLHAREA 25 3 SETS

50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	20.6	PST	FEET METERS
WIND DIRECTION	NW	MIN TEMP (C)	11.2	100	15.2 4.63
SPEED (KM/H)	16	PRECIP. (MM)	1.8	820	4.1 1.25
CLOUD (/10)	8	SUN (HR)	9.8	1505	12.8 3.90
SEA LT CHP				1955	9.9 3.02

CHUM SALMON=ONCORHYNCHUS KETA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
		RED/GR
251.	2	2

UNMARKED FISH

RED/GR	N= 10	AVERAGE WEIGHT (G)	2.83	S.E.	2.83
	N= 10	AVERAGE WEIGHT (MG)	30.6	S.E.	5.40
	N= 2	AVERAGE LENGTH (MM)	50.	S.E.	3.00
	N= 2	AVERAGE WEIGHT (G)	1.19	S.E.	0.19

PINK SALMON=ONCORHYNCHUS GORBUSCHA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
		RED/GR
416.	2	2

UNMARKED FISH

RED/GR	N= 10	AVERAGE WEIGHT (G)	2.13	S.E.	2.13
	N= 10	AVERAGE WEIGHT (MG)	20.2	S.E.	4.75
	N= 2	AVERAGE LENGTH (MM)	51.	S.E.	1.50
	N= 2	AVERAGE WEIGHT (G)	1.10	S.E.	0.12

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

LINGCOD=OPHIODON ELONGATUS

STICKLEBACKS=FAMILY GASTEROSTEIDAE

CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA

CATCH 2.

10JUN76 612HR AREA 1 SUBAREA 1 DEPTH 26 1 SET
50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME	CLM	MAX TEMP (C)	20.0	PST FEET	METERS
WIND DIRECTION	CLM	MIN TEMP (C)	5.6	235	15.2
SPEED (KM/H)	0	PRECIP. (MM)	0.8	945	1.8
CLOUD (/10)	8	SUN (HR)	10.2	1710	14.6
SEA	CALM			2210	10.8

STICKLEBACKS-FAMILY GASTERosteidae CATCH 1.

10JUN76 805HR AREA 1 SUBAREA 1 DEPTH 22-26 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 8 SEA CALM
AT SET: SPEED (KM/H) 0

PINK SALMON-ONCORHYNCHUS GORBUSCHA
N= 1 AVERAGE LENGTH (MM) 47 CATCH 1.
N= 1 AVERAGE WEIGHT (G) 0.73 S.E. 0.00

10JUN76 1000HR AREA 1 SUBAREA 1 DEPTH 18 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 5 SEA CALM
AT SET: SPEED (KM/H) 0

NO CATCH

10JUN76 1220HR AREA 1 SUBAREA 1 DEPTH 18-24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SF CLOUD (/10) 9 SEA RIPPLE
AT SET: SPEED (KM/H) 3

CHUM SALMON-ONCORHYNCHUS KETA
N= 1 AVERAGE LENGTH (MM) 113 CATCH 1.
N= 1 AVERAGE WEIGHT (G) 13.93 S.E. 0.00

COHO SALMON-ONCORHYNCHUS KISUTCH CATCH 11.

CHINOOK SALMON-ONCORHYNCHUS TSHAWYTSCHA
N= 1 AVERAGE LENGTH (MM) 142 CATCH 12.
N= 1 AVERAGE WEIGHT (G) 31.44 S.E. 0.00
STOMACH CONTENT N= 1 AVERAGE WEIGHT (MG) 5.7 % 0.09

PACIFIC HERRING-CLUPEA HARENGUS PALLASI CATCH 1.

- 36 -

10JUN76 1515HR AREA 1 SUBAREA 1 DEPTH 24-27 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 4 SEA LT CHP
AT SET: SPEED (KM/H) 24

CHUM SALMON-ONCORHYNCHUS KISUTCH CATCH 13.

PINK SALMON-ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
98. 1 1

UNMARKED FISH

BL/GR	N= 10	AVERAGE LENGTH (MM)	69. S.E.	2.17
BL/GR	N= 10	AVERAGE WEIGHT (G)	3.08 S.E.	0.37
BL/GR	N= 1	AVERAGE LENGTH (MM)	77. S.E.	0.00
BL/GR	N= 1	AVERAGE WEIGHT (G)	4.00 S.E.	0.00

CHUM SALMON-ONCORHYNCHUS KETA

TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
33. 1 1

UNMARKED FISH

BL/GR	N= 10	AVERAGE LENGTH (MM)	67. S.E.	2.77
BL/GR	N= 10	AVERAGE WEIGHT (G)	3.07 S.E.	0.41
BL/GR	N= 1	AVERAGE LENGTH (MM)	65. S.E.	0.00
BL/GR	N= 1	AVERAGE WEIGHT (G)	2.18 S.E.	0.00

- 37 -

10JUN76 630HR AREA 1 SUBAREA 6 DEPTH 5-11 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 8 SEA CALM
AT SET: SPEED (KM/H) 0

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
216. 3 3

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	77	S.E.	3.03
	N= 10	AVERAGE WEIGHT (G)	4.39	S.E.	0.55
RED/GR	N= 10	AVERAGE WEIGHT (MG)	7.6	%	0.87
	N= 1	AVERAGE LENGTH (MM)	69	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.99	S.E.	0.00

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
96. 3 3

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	83	S.E.	2.51
	N= 10	AVERAGE WEIGHT (G)	5.80	S.E.	0.52
GREEN	N= 10	AVERAGE WEIGHT (MG)	14.6	%	1.26
	N= 1	AVERAGE LENGTH (MM)	85	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	6.56	S.E.	0.00

SOCKEYE SALMON=ONCORHYNCHUS NEKKA CATCH 18.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 6.

LINGCOD=OPHIODON ELONGATUS CATCH 3.

10JUN76 825HR AREA 1 SUBAREA 6 DEPTH 5-11 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 8 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA

TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
30. 3 3

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	70.	S.E.	5.33
	N= 10	AVERAGE WEIGHT (G)	4.06	S.E.	1.21
BL/GR	N= 10	AVERAGE WEIGHT (MG)	8.5	%	1.05
	N= 3	AVERAGE LENGTH (MM)	64.	S.E.	5.04
	N= 3	AVERAGE WEIGHT (G)	2.26	S.E.	0.61

PINK SALMON=ONCORHYNCHUS GORBUSCHA

TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR BL/GR
41. 2 1 1

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	65.	S.E.	1.47
	N= 10	AVERAGE WEIGHT (G)	2.34	S.E.	0.16
RED/GR	N= 10	AVERAGE WEIGHT (MG)	7.5	%	1.60
	N= 1	AVERAGE LENGTH (MM)	65.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.74	S.E.	0.00
BL/GR	N= 1	AVERAGE LENGTH (MM)	74.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	3.55	S.E.	0.00

COHOO SALMON=ONCORHYNCHUS KISUTCH

CATCH 7.

SUCKEYE SALMON=ONCORHYNCHUS NEKKA

CATCH 6.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

CATCH 1.

10JUN76 1020HR AREA 1 SUBAREA 6 DEPTH 5 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLN CLOUD (/10) S SEA CALM
AT SET: SPEED (KM/H) 0

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
252. 4 .4

UNMARKED FISH
BL/GR N= 10 AVERAGE LENGTH (MM) 80 S.E. 2.47
N= 10 AVERAGE WEIGHT (G) 5.11 S.E. 0.48

N= 1 AVERAGE LENGTH (MM) 61 S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.73 S.E. 0.00

CHUM SALMON=ONCORHYNCHUS KETA
N= 10 AVERAGE LENGTH (MM) 82 S.E. 1.23
N= 10 AVERAGE WEIGHT (G) 5.49 S.E. 0.29

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 12.

SOCKEYE SALMON=ONCORHYNCHUS NEKKA CATCH 12.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 32.

10JUN76 1240HR AREA 1 SUBAREA 6 DEPTH 4-7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 9 SEA RIPPLE
AT SET: SPEED (KM/H) 3

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
296. 3 3

UNMARKED FISH
BL/GR STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 66 S.E. 3.80
N= 20 AVERAGE WEIGHT (G) 3.87 S.E. 2.39

N= 20 AVERAGE WEIGHT (MG) 11.6 % 1.50

N= 3 AVERAGE LENGTH (MM) 66 S.E. 2.96
N= 3 AVERAGE WEIGHT (G) 2.34 S.E. 0.32

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
71. 3 3

UNMARKED FISH
BL/GR STOMACH CONTENT N= 11 AVERAGE LENGTH (MM) 85 S.E. 5.89
N= 11 AVERAGE WEIGHT (G) 7.17 S.E. 1.73

N= 10 AVERAGE WEIGHT (MG) 19.4 % 1.35

N= 3 AVERAGE LENGTH (MM) 67 S.E. 1.15
N= 3 AVERAGE WEIGHT (G) 2.42 S.E. 0.11

GUNNELS=FAMILY PHOLIDAE CATCH 2.

- 40 -

10JUN76 1535HR AREA 1 SUBAREA 6 DEPTH 9-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 3 SEA CHOP
AT SET: SPEED (KM/H) 24

COHO SALMON-*ONCORHYNCHUS KISUTCH* CATCH 1.

10JUN76 643HR AREA 1 SUBAREA 7 DEPTH 27 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 7 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON-*ONCORHYNCHUS KETA*
N= 10 AVERAGE LENGTH (MM) 80 S.E. 546.
N= 10 AVERAGE WEIGHT (G) 5.22 S.E. 2.40
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 18.9 % 0.39

PINK SALMON-*ONCORHYNCHUS GORBUSCHA*
N= 10 AVERAGE LENGTH (MM) 77 S.E. 490.
N= 10 AVERAGE WEIGHT (G) 4.57 S.E. 3.11
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 19.9 % 0.59

Sockeye Salmon-*ONCORHYNCHUS NERKA* CATCH 7.

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 28.

- 41 -

10JUN76	835HH	AREA BIOLOGICAL STATION	1 SUBAREA 7 DEPTH 24-26	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLM 0	CLOUD (/10) 8	SEA CALM
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>		N= 10	AVERAGE LENGTH (MM) 78	CATCH 135. N= 10 AVERAGE WEIGHT (G) 5.32 S.E. 4.52
		N= 10	AVERAGE LENGTH (MM) 78 S.E.	0.93
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>		TOTAL CATCH BY TYPE OF MARK		
		TOTAL MARKS BL/GR		
		212. 5 5		
UNMARKED FISH		N= 10	AVERAGE LENGTH (MM) 81	S.E. 3.87
		N= 10	AVERAGE WEIGHT (G) 5.62 S.E.	0.87
STOMACH CONTENT BL/GR		N= 10	AVERAGE WEIGHT (MG) 23.7 %	2.11
		N= 2	AVERAGE LENGTH (MM) 64 S.E.	0.00
		N= 2	AVERAGE WEIGHT (G) 2.01 S.E.	0.04
SOCKEYE SALMON- <i>ONCORHYNCHUS NERKA</i>			CATCH	5.
STICKLEBACKS-FAMILY GASTEROSTEIDAE			CATCH	3.
LINGCOD- <i>OPHIODON ELONGATUS</i>			CATCH	3.
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>			CATCH	3.

10JUN76	1035HR	AREA BIOLOGICAL STATION	1 SUBAREA 7 DEPTH 27	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		SE 3	CLOUD (/10) 6	SEA RIPPLE
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>		TOTAL CATCH BY TYPE OF MARK		
		TOTAL MARKS GREEN		
		189. 3 3		
UNMARKED FISH		N= 10	AVERAGE LENGTH (MM) 84	S.E. 1.99
		N= 10	AVERAGE WEIGHT (G) 6.03 S.E.	0.43
STOMACH CONTENT GREEN		N= 10	AVERAGE WEIGHT (MG) 29.2 %	2.42
		N= 1	AVERAGE LENGTH (MM) 76 S.E.	0.00
		N= 1	AVERAGE WEIGHT (G) 5.04 S.E.	0.00
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>			CATCH	197.
		N= 10	AVERAGE LENGTH (MM) 90 S.E.	2.02
STOMACH CONTENT		N= 10	AVERAGE WEIGHT (G) 7.07 S.E.	0.49
		N= 10	AVERAGE WEIGHT (MG) 22.9 %	1.62
SOCKEYE SALMON- <i>ONCORHYNCHUS NERKA</i>			CATCH	6.
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>			CATCH	21.

- 42 -

10JUN76 1250HR AREA 1 SUBAREA 7 DEPTH 27 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 4 SEA LT RIP
AT SET: SPEED (KM/H) 8

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* CATCH 207.
N= 10 AVERAGE LENGTH (MM) 71. S.E. 2.50
N= 10 AVERAGE WEIGHT (G) 3.58 S.E. 0.42

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 103.
N= 10 AVERAGE LENGTH (MM) 73. S.E. 2.23
N= 10 AVERAGE WEIGHT (G) 3.92 S.E. 0.40

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 5.

10JUN76 1545HR AREA 1 SUBAREA 7 DEPTH 26-29 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 4 SEA LT RIP
AT SET: SPEED (KM/H) 3- 8

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* CATCH 144.
N= 10 AVERAGE LENGTH (MM) 92. S.E. 2.27
N= 10 AVERAGE WEIGHT (G) 7.59 S.E. 0.46
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 9.6 % 0.63

SOCKEYE SALMON-*ONCORHYNCHUS NERKA* CATCH 12.

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 120.
N= 10 AVERAGE LENGTH (MM) 103. S.E. 2.56
N= 10 AVERAGE WEIGHT (G) 11.08 S.E. 0.95
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 30.5 % 1.38

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 9.
N= 9 AVERAGE LENGTH (MM) 171. S.E. 4.99

- 43 -

10JUN76 655HR AREA 1 SUBAREA 12 DEPTH 7-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLN CLOUD (/10) 4 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON-*ONCORHYNCHUS KETA*
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
332. 4 4

UNMARKED FISH

RED/GR	N= 10	AVERAGE LENGTH (MM)	72	S.E.	3.94
	N= 10	AVERAGE WEIGHT (G)	3.94	S.E.	0.62
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (MG)	9.3	S.E.	1.18
	N= 1	AVERAGE LENGTH (MM)	72	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	3.61	S.E.	0.00

PINK SALMON-*ONCORHYNCHUS GORBUSCHA*
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
272. 4 4

UNMARKED FISH

BL/GR	N= 10	AVERAGE LENGTH (MM)	77	S.E.	3.26
	N= 10	AVERAGE WEIGHT (G)	4.66	S.E.	0.65
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (MG)	6.1	S.E.	0.66
	N= 1	AVERAGE LENGTH (MM)	73	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	3.14	S.E.	0.00

NORTHERN ANCHOVY-*ENGRAULIS MORDAX MORDAX* CATCH 4.

LINGCOD-*OPHIODON ELONGATUS* CATCH 16.

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 24.

10JUN76 850HR AREA 1 SUBAREA 12 DEPTH 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLN CLOUD (/10) 6 SEA CALM
AT SET: SPEED (KM/H) 0

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 9.

CHUM SALMON-*ONCORHYNCHUS KETA*
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
7. * 1 1

UNMARKED FISH

BL/GR	N= 6	AVERAGE LENGTH (MM)	54	S.E.	1.19
	N= 6	AVERAGE WEIGHT (G)	1.48	S.E.	0.11
	N= 1	AVERAGE LENGTH (MM)	73	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	3.30	S.E.	0.00

LINGCOD-*OPHIODON ELONGATUS* CATCH 1.

COHO SALMON-*ONCORHYNCHUS KISUTCH* CATCH 18.

10JUN76 1050HR AREA 1 SUBAREA 12 DEPTH 15 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 6 SEA RIPPLE
AT SET: SPEED (KM/H) 2

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 248.
N= 10 AVERAGE LENGTH (MM) 86. S.E. 2.57
N= 10 AVERAGE WEIGHT (G) 6.21 S.E. 0.52
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 22.4 % 1.80

CHUM SALMON=ONCORHYNCHUS KETA CATCH 105.
N= 10 AVERAGE LENGTH (MM) 87. S.E. 2.77
N= 10 AVERAGE WEIGHT (G) 6.82 S.E. 0.83
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 15.3 % 1.12

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 14.

SOCKEYE SALMON=ONCORHYNCHUS NERKA CATCH 7.

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 10.

10JUN76 1310HR AREA 1 SUBAREA 12 DEPTH 5-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 3 SEA LT CMP
AT SET: SPEED (KM/H) 16

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 31.

CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA CATCH 9.

SOCKEYE SALMON=ONCORHYNCHUS NERKA CATCH 1.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 3.

10JUN76 1600HR AREA 1 SUBAREA 12 DEPTH 11-15 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 4 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA CATCH 17.
N= 10 AVERAGE LENGTH (MM) 79. S.E. 3.35
N= 10 AVERAGE WEIGHT (G) 5.10 S.E. 0.67
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 18.0 % 1.77

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 36.
N= 10 AVERAGE LENGTH (MM) 84. S.E. 2.64
N= 10 AVERAGE WEIGHT (G) 5.90 S.E. 0.62
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 6.4 % 0.54

- 45 -

10JUN76 705HR AREA 1 SUBAREA 14 DEPTH 11-16 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 5 SEA CALM
AT SET: SPEED (KM/H) 0

PACIFIC HERRING-CLUPEA HARENGUS PALLASI CATCH 1.

CHUM SALMON-ONCORHYNCHUS KETA CATCH 1.
N= 1 AVERAGE LENGTH (MM) 52 S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.20 S.E. 0.00

PINK SALMON-ONCORHYNCHUS GORBUSCHA CATCH 1.

10JUN76 900HR AREA 1 SUBAREA 14 DEPTH 16 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 6 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON-ONCORHYNCHUS KETA CATCH 52.
N= 10 AVERAGE LENGTH (MM) 79 S.E. 2.08
N= 10 AVERAGE WEIGHT (G) 5.33 S.E. 0.35
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 25.5 % 2.39

PINK SALMON-ONCORHYNCHUS GORBUSCHA CATCH 115.
N= 10 AVERAGE LENGTH (MM) 79 S.E. 2.62
N= 10 AVERAGE WEIGHT (G) 5.17 S.E. 0.67
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 23.5 % 2.27

PACIFIC HERRING-CLUPEA HARENGUS PALLASI CATCH 1.

LINGCOD-OPHIODON ELONGATUS CATCH 1.

SOCKEYE SALMON-ONCORHYNCHUS NEKKA CATCH 1.

10JUN76 1105HR AREA 1 SUBAREA 14 DEPTH 11-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 8 SEA RIPPLE
AT SET: SPEED (KM/H) 3

PINK SALMON-ONCORHYNCHUS GORBUSCHA CATCH 46.
N= 10 AVERAGE LENGTH (MM) 66 S.E. 2.64
N= 10 AVERAGE WEIGHT (G) 2.90 S.E. 0.38
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 8.7 % 1.50

CHUM SALMON-ONCORHYNCHUS KETA CATCH 28.
N= 10 AVERAGE LENGTH (MM) 69 S.E. 2.74
N= 10 AVERAGE WEIGHT (G) 3.52 S.E. 0.40
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 17.6 % 2.50

PACIFIC HERRING-CLUPEA HARENGUS PALLASI CATCH 1.

10JUN76 1320HR AREA 1 SUBAREA 14 DEPTH 11-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 5 SEA LT CHP
AT SET: SPEED (KM/H) 16

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
54. 1 1

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	66.	S.E.	1.32
	N= 10	AVERAGE WEIGHT (G)	2.55	S.E.	0.22
RED/GR	N= 10	AVERAGE WEIGHT (MG)	8.1	%	1.59
	N= 1	AVERAGE LENGTH (MM)	62.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	1.98	S.E.	0.00

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS S.E.
STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 68. 22.
N= 10 AVERAGE WEIGHT (G) 3.18 2.73
N= 10 AVERAGE WEIGHT (MG) 13.7 0.41

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 1.
LINGCOD=DOPHIODON ELONGATUS CATCH 1.

10JUN76 1610HR AREA 1 SUBAREA 14 DEPTH 13-15 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 6 SEA RIPPLE
AT SET: SPEED (KM/H) 8-16

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GR
310. 2 2

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	71.	S.E.	3.48
	N= 10	AVERAGE WEIGHT (G)	3.66	S.E.	0.58
BL/GR	N= 10	AVERAGE WEIGHT (MG)	1.9	%	0.26
	N= 1	AVERAGE LENGTH (MM)	64.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.12	S.E.	0.00

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
108. 2 2

UNMARKED FISH

	N= 10	AVERAGE LENGTH (MM)	69.	S.E.	2.80
	N= 10	AVERAGE WEIGHT (G)	3.45	S.E.	0.37
GREEN	N= 10	AVERAGE WEIGHT (MG)	13.4	%	1.94
	N= 1	AVERAGE LENGTH (MM)	78.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	4.73	S.E.	0.00

- 47 -

10JUN76	725HR	AREA BIOLOGICAL STATION	1 SUBAREA	18	DEPTH	4-13	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLM 0	CLOUD (/10)	6	SEA	CALM	
LINGCOD=OPHIODON ELONGATUS						CATCH	2.
10JUN76	915HR	AREA BIOLOGICAL STATION	1 SUBAREA	18	DEPTH	2	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLM 0	CLOUD (/10)	6	SEA	CALM	
LINGCOD=OPHIODON ELONGATUS						CATCH	165.
CHUM SALMON=ONCORHYNCHUS KETA							
TOTAL CATCH BY TYPE OF MARK							
CATCH		MARKS	BL/GR				
50.	4	4					
UNMARKED FISH							
BL/GR		N= 10	AVERAGE LENGTH (MM)	64	S.E.	2.77	
BL/GR		N= 10	AVERAGE WEIGHT (G)	2.73	S.E.	0.39	
BL/GR		N= 4	AVERAGE LENGTH (MM)	68	S.E.	2.58	
BL/GR		N= 4	AVERAGE WEIGHT (G)	2.83	S.E.	0.41	
PINK SALMON=ONCORHYNCHUS GORBUSCHA							
TOTAL CATCH BY TYPE OF MARK							
CATCH		MARKS	BL/GR				
48.	1	1					
UNMARKED FISH							
BL/GR		N= 10	AVERAGE LENGTH (MM)	66	S.E.	3.20	
BL/GR		N= 10	AVERAGE WEIGHT (G)	2.76	S.E.	0.47	
BL/GR		N= 1	AVERAGE LENGTH (MM)	59	S.E.	0.00	
BL/GR		N= 1	AVERAGE WEIGHT (G)	1.56	S.E.	0.00	
KELP GREENLING=HEXAGRAMMOS DECAGRAMMUS							
PACIFIC SANDDAB=CITHARICHTHYS SORDIDUS						CATCH	1.
GUNNELS=FAMILY PHOLIDAE						CATCH	1.
GOBIES=FAMILY GOBIIDAE							

- 48 -

10JUN76 1130HR AREA 1 SUBAREA 18 DEPTH 4-11 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 9 SEA RIPPLE
AT SET: SPEED (KM/H) 2-3

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 16.
CHINOOK SALMON=ONCORHYNCHUS TSHAWYISCHA CATCH 5.
LINGCOD=OPHIODON ELONGATUS CATCH 1.

10JUN76 1340HR AREA 1 SUBAREA 18 DEPTH 2-9 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 5 SEA RIPPLE
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA CATCH 5.
N= 5 AVERAGE LENGTH (MM) 57 S.E. 6.09
N= 5 AVERAGE WEIGHT (G) 2.03 S.E. 0.65

SHINER PERCH=CYMATOGASTER AGGREGATA CATCH 52.

SCULPINS=FAMILY COTTIDAE CATCH 1.

LINGCOD=OPHIODON ELONGATUS CATCH 3.

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 2.

GUNNELS=FAMILY PHOLIDAE CATCH 2.

PINK SALMON=ONCORHYNCHUS GORKBUSCHA CATCH 1.
N= 1 AVERAGE LENGTH (MM) 51 S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.21 S.E. 0.00

10JUN76 1630HR AREA 1 SUBAREA 18 DEPTH 4-5 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 5 SEA LT RIP
AT SET: SPEED (KM/H) 8

NO CATCH

- 49 -

10JUN76	735HR	AREA BIOLOGICAL STATION	1 SUBAREA	19	DEPTH 26	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			CLN 0	CLOUD (/10)	4 SEA	CALM
CHUM SALMON=ONCORHYNCHUS KETA						CATCH 1.
PINK SALMON=ONCORHYNCHUS GORBUSCHA						CATCH 1.
STICKLEBACKS=FAMILY GASTEROSTEIDAE						CATCH 1.
10JUN76	930HR	AREA BIOLOGICAL STATION	1 SUBAREA	19	DEPTH 18	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			SE 2	CLOUD (/10)	6 SEA	RIPPLE
NO CATCH						
10JUN76	1140HR	AREA BIOLOGICAL STATION	1 SUBAREA	19	DEPTH 26	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			SE 3	CLOUD (/10)	9 SEA	RIPPLE
NO CATCH						
10JUN76	1430HR	AREA BIOLOGICAL STATION	1 SUBAREA	19	DEPTH 26	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			E 3-8	CLOUD (/10)	6 SEA	LT RIP
PINK SALMON=ONCORHYNCHUS GORBUSCHA						CATCH 79.
N= 10 AVERAGE LENGTH (MM) 78. S.E. 3.61						
N= 10 AVERAGE WEIGHT (G) 4.96 S.E. 0.73						
CHUM SALMON=ONCORHYNCHUS KETA						CATCH 38.
N= 10 AVERAGE LENGTH (MM) 79. S.E. 3.19						
N= 10 AVERAGE WEIGHT (G) 5.16 S.E. 0.68						
PACIFIC HERRING=CLUPEA HARENGUS PALLASI						CATCH 1.
STICKLEBACKS=FAMILY GASTEROSTEIDAE						CATCH 1.

- 50 -

10JUN76 1640HR AREA 1 SUBAREA 19 DEPTH 24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 5 SEA CHOP
AT SET: SPEED (KM/H) 6

CHUM SALMON=ONCORHYNCHUS KETA CATCH 4.
N= 4 AVERAGE LENGTH (MM) 55. S.E. 2.72
N= 4 AVERAGE WEIGHT (G) 1.55 S.E. 0.22

PINK SALMON=ONCORHYNCHUS GOBBUSCHA CATCH 1.
N= 1 AVERAGE LENGTH (MM) 60. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.60 S.E. 0.00

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 1.
N= 1 AVERAGE LENGTH (MM) 250. S.E. 0.00

10JUN76 750HR AREA 1 SUBAREA 24 DEPTH 16-22 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 6 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS GREEN
2. 1 1

UNMARKED FISH

GREEN N= 1 AVERAGE LENGTH (MM) 48. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 0.73 S.E. 0.00
N= 1 AVERAGE LENGTH (MM) 67. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 2.69 S.E. 0.00

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 9.

STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 1.

10JUN76 945HR AREA 1 SUBAREA 24 DEPTH 22 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 5 SEA RIPPLE
AT SET: SPEED (KM/H) 2

CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA CATCH 1.
N= 1 AVERAGE LENGTH (MM) 250. S.E. 0.00

- 51 -

10JUN76 1200HR AREA 1 SUBAREA 24 DEPTH 15-20 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 9 SEA RIPPLE
AT SET: SPEED (KM/H) 3

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 400.
N= 10 AVERAGE LENGTH (MM) 72. S.E. 1.46
N= 10 AVERAGE WEIGHT (G) 3.54 S.E. 0.26
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 13.4 % 1.89

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS BL/GK
513. 5 5

UNMARKED FISH
BL/GK STOMACH CONTENT N= 10 AVERAGE LENGTH (MM) 72. S.E. 2.64
N= 10 AVERAGE WEIGHT (G) 3.99 S.E. 0.43
N= 10 AVERAGE WEIGHT (MG) 18.0 % 2.26
N= 1 AVERAGE LENGTH (MM) 68. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 2.55 S.E. 0.00

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 36.

SOCKEYE SALMON=ONCORHYNCHUS NERKA CATCH 4.

10JUN76 1450HR AREA 1 SUBAREA 24 DEPTH 11-16 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 4 SEA LT RIP
AT SET: SPEED (KM/H) 16

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 8.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.

TUBE SNUSTS=FAMILY AULURHYNCHIDAE CATCH 1.

10JUN76 1700HR AREA 1 SUBAREA 24 DEPTH 11-16 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 5 SEA RIPPLE
AT SET: SPEED (KM/H) 3-5

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 2.

LINGCOD=OPHIODON ELONGATUS CATCH 1.

11JUN76 1400HR AREA 1 SUBAREA 25 3 SETS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS AT SET TIME		SUMMARY FOR DAY			TIDES	
WIND DIRECTION	E	MAX TEMP (C)	13.4	PST	FEET	METERS
SPEED (KM/H)	16-48	MIN TEMP (C)	7.8	320	15.1	4.60
CLOUD (/10)	10	PRECIP. (MM)	2.5	1030	1.2	0.37
SEA CHOP		SUN (HR)	1.6	1805	15.2	4.63
				2305	10.9	3.32

CHUM SALMON-*ONCORHYNCHUS KETA*

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
		GREEN RED/GR BL/GR
489.	10	3 4 3

UNMARKED FISH

GREEN	STOMACH CONTENT	N= 20	AVERAGE WEIGHT (G)	6.06	S.E.	4.18
		N= 20	AVERAGE WEIGHT (MG)	17.3	S.E.	1.43
RED/GR		N= 3	AVERAGE LENGTH (MM)	77.	S.E.	1.67
		N= 3	AVERAGE WEIGHT (G)	4.38	S.E.	0.30
BL/GR		N= 4	AVERAGE LENGTH (MM)	50.	S.E.	2.50
		N= 4	AVERAGE WEIGHT (G)	1.12	S.E.	0.16
PINK SALMON- <i>ONCORHYNCHUS GORECUSCHA</i>	STOMACH CONTENT	N= 3	AVERAGE LENGTH (MM)	61.	S.E.	5.03
		N= 20	AVERAGE WEIGHT (G)	5.66	CATCH S.E.	692.
		N= 20	AVERAGE WEIGHT (MG)	11.2	S.E.	3.95
						0.99

11JUN76 900HR AREA 2 HAMMOND BAY DEPTH 5 1 SET

WEATHER: WIND DIRECTION SE CLOUD (10) 10 SEA RIPPLE
AT SET: SPEED (KM/H) 16

NO CATCH

11JUN76 930HR AREA 2 HAMMOND BAY DEPTH 5 1 SET

WEATHER: WIND DIRECTION SE CLOUD (10) 10 SEA RIPPLE
AT SET: SPEED (KM/H) 8

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI*

- 53 -

11JUN76 1030HR AREA 17 DEPTH 5 1 SET
MARK BAY

WEATHER: WIND DIRECTION SE CLOUD (/10) 10 SEA RIPPLE
AT SET: SPEED (KM/H) 16

CHUM SALMON=ONCORHYNCHUS KETA
N= 50 AVERAGE LENGTH (MM) 72 CATCH 73.
N= 50 AVERAGE WEIGHT (G) 3.82 S.E. 1.75
STOMACH CONTENT N= 20 AVERAGE WEIGHT (MG) 6.7 % 0.00

PINK SALMON=ONCORHYNCHUS GORBUSCHA
N= 50 AVERAGE LENGTH (MM) 71 CATCH 118.
N= 50 AVERAGE WEIGHT (G) 3.58 S.E. 1.13
STOMACH CONTENT N= 20 AVERAGE WEIGHT (MG) 2.3 % 0.00

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

12JUN76 800HR AREA 1 5 SETS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	15.0	PST	FEET METERS
WIND DIRECTION	NW	MIN TEMP (C)	7.3	410	14.9 4.54
SPEED (KM/H)	8	PRECIP. (MM)	1.0	1125	1.0 0.30
CLOUD (/10)	5	SUN (HR)	8.1	1855	15.6 4.75
SEA RIPPLE					

CHUM SALMON=ONCORHYNCHUS KETA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
		GREEN RED/GR
237.	4	1 3

GREEN

N= 1	AVERAGE LENGTH (MM)	81	S.E.	0.00
N= 1	AVERAGE WEIGHT (G)	5.09	S.E.	0.00

RED/GR

N= 3	AVERAGE LENGTH (MM)	68	S.E.	2.67
N= 3	AVERAGE WEIGHT (G)	2.89	S.E.	0.39

PINK SALMON=ONCORHYNCHUS GORBUSCHA

STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	4.11	S.E.	193.4
	N= 10	AVERAGE WEIGHT (MG)	7.4	%	4.11
					0.90

13JUN76 800MK AREA 1 5 SETS
50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	17.3	PST	FEET METERS
WIND DIRECTION	NW	MIN TEMP (C)	3.4	0	10.8 3.29
SPEED (KM/H)	8	PRECIP. (MM)	0.0	450	14.4 4.39
CLOUD (/10)	1	SUN (HR)	13.9	1210	1.1 0.34
SEA				1935	15.6 4.75

PACIFIC HERRING-CLUPEA HARENGUS PALLASI CATCH 2500.

CHUM SALMON-ONCORHYNCHUS KETA

TOTAL CATCH	TOTAL MARKS	CATCH BY TYPE OF MARK
CATCH	MARKS	RED/GK

172. 1 1

UNMARKED FISH

RED/GK	N= 10	AVERAGE WEIGHT (G)	5.89	S.E.	5.89
	N= 10	AVERAGE WEIGHT (MG)	30.6	%	2.60
	N= 1	AVERAGE LENGTH (MM)	62	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.67	S.E.	0.00

PINK SALMON-ONCORHYNCHUS GORBUSCHA

STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	3.54	S.E.	3.53
	N= 10	AVERAGE WEIGHT (MG)	27.2	%	3.85

14JUN76 1000HR AREA 1 DEPTH 4-7 5 SETS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	17.8	PST	FLEET METERS
WIND DIRECTION	SE	MIN TEMP (C)	6.2	50	10.5 3.20
SPEED (KM/H)	8	PRECIP. (MM)	11.9	540	13.8 4.21
CLOUD (/10)	10	SUN (HR)	3.4	1255	1.7 0.52
SEA RIPPLE				2015	15.5 4.72

PINK SALMON=ONCORHYNCHUS GORBUSCHA

TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR

168. 3 3

UNMARKED FISH

RED/GR	N= 10	AVERAGE WEIGHT (G)	2.28	S.E.	2.28
	N= 10	AVERAGE WEIGHT (MG)	7.7	%	1.69
	N= 3	AVERAGE LENGTH (MM)	58	S.E.	1.20
	N= 3	AVERAGE WEIGHT (G)	1.74	S.E.	0.14

PACIFIC HERRING=CLUPEA HARENGUS PALLASI

CATCH 380.

CHUM SALMON=ONCORHYNCHUS KETA

CATCH 171.

STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	2.33	S.E.	2.33
	N= 10	AVERAGE WEIGHT (MG)	8.1	%	1.74

COHO SALMON=ONCORHYNCHUS KISUTCH

CATCH 26.

LINGCOD=OPHIODON ELONGATUS

CATCH 2.

15JUN76	930HR	AREA 1	S SETS
50 FATHUM PURSE SEINES		BIOLOGICAL STATION	
WEATHER CONDITIONS			
WIND DIRECTION	SE	SUMMARY FOR DAY	TIDES
WIND SPEED (KM/H)	8	MAX TEMP (C) 17.3	PST FEET METERS
CLOUD (/10)	10	MIN TEMP (C) 10.6	155 10.0 3.05
SEA		PRECIP. (MM) 1.5	635 13.0 3.96
		SUN (HR) 0.4	1330 2.7 0.82
			2050 15.3 4.66
CHUM SALMON=ONCORHYNCHUS KETA			
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	CATCH 98.
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (MG)	4.98 S.E. 4.98
			1.1 % 0.11
PINK SALMON=ONCORHYNCHUS GORBUSCHA			
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	CATCH 121.
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (MG)	4.71 S.E. 4.71
			5.7 % 0.60
SOCKEYE SALMON=ONCORHYNCHUS NERKA			
			CATCH 1.
STICKLEBACKS=FAMILY GASTEROSTEIDAE			
			CATCH 1.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI			
			CATCH 1.
LINGCOD=OPHIODON ELONGATUS			
			CATCH 2.

16JUN76 1310HR AREA 1 2 SETS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	20.6	PST	FEET METERS
WIND DIRECTION	NW	MIN TEMP (C)	11.7	250	9.5 2.90
SPEED (KM/H)	8	PRECIP. (MM)	0.5	720	12.2 3.72
CLOUD (/10)	6	SUN (HR)	5.3	1405	3.8 1.16
SEA LT KIP				2135	15.1 4.60

CHUM SALMON=UNCORHYNCHUS KETA CATCH 196.
N= 10 AVERAGE WEIGHT (G) 8.59 S.E. 8.59
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 138.3 % 8.05

PINK SALMON=UNCORHYNCHUS GORBUSCHA CATCH 961.
N= 10 AVERAGE WEIGHT (G) 10.82 S.E. 10.82
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 140.6 % 6.50

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 61.

COHO SALMON=UNCORHYNCHUS KISUTCH CATCH 11.

17JUN76 600HR AREA 1 SUBAREA 1 1 SET
 50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS AT SET TIME		SUMMARY FOR DAY		TIDES		
WIND DIRECTION	CLM	MAX TEMP (C)	24.5	PST	FEET	METERS
SPEED (KM/H)	0	MIN TEMP (C)	10.0	355	8.8	2.68
CLOUD (/10)	0	PRECIP. (MM)	0.0	820	11.3	3.44
SEA	CALM	SUN (HR)	13.0	1450	5.1	1.55
				2200	14.8	4.51

PINK SALMON=ONCORHYNCHUS GORBUSCHA
 N= 1 AVERAGE LENGTH (MM) CATCH 1.
 N= 1 AVERAGE WEIGHT (G) 78. S.E. 0.00
 5.10 S.E. 0.00

17JUN76 810HR AREA 1 SUBAREA 1 1 SET
 BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM	CLOUD (/10)	4	SEA	CALM
AT SET: SPEED (KM/H) 0				

CHUM SALMON=ONCORHYNCHUS KETA
 N= 9 AVERAGE LENGTH (MM) CATCH 9.
 N= 9 AVERAGE WEIGHT (G) 71. S.E. 1.91
 3.57 S.E. 0.25

PINK SALMON=ONCORHYNCHUS GORBUSCHA
 N= 10 AVERAGE LENGTH (MM) CATCH 13.
 N= 10 AVERAGE WEIGHT (G) 71. S.E. 0.84
 3.33 S.E. 0.15

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 26.

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 6.

17JUN76 1007HR AREA 1 SUBAREA 1 1 SET
 BIOLOGICAL STATION

WEATHER: WIND DIRECTION	CLOUD (/10)	1	SEA	CALM
AT SET: SPEED (KM/H)				

CHUM SALMON=ONCORHYNCHUS KETA
 N= 7 AVERAGE LENGTH (MM) CATCH 7.
 N= 7 AVERAGE WEIGHT (G) 69. S.E. 2.60
 3.34 S.E. 0.33

PINK SALMON=ONCORHYNCHUS GORBUSCHA
 N= 6 AVERAGE LENGTH (MM) CATCH 6.
 N= 6 AVERAGE WEIGHT (G) 65. S.E. 1.31
 2.40 S.E. 0.12

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 13.

STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 1.

- 60 -

17JUN76 1218HR AREA 1 SUBAREA 1 DEPTH 24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 0 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA CATCH 6.
PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 4.
STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 7.

17JUN76 1410HR AREA 1 SUBAREA 1 DEPTH 22-26 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 16

CHUM SALMON=ONCORHYNCHUS KETA CATCH 7.
N= 7 AVERAGE LENGTH (MM) 58. S.E. 3.60
N= 7 AVERAGE WEIGHT (G) 2.07 S.E. 0.43
PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 2.
N= 2 AVERAGE LENGTH (MM) 59. S.E. 5.00
N= 2 AVERAGE WEIGHT (G) 1.98 S.E. 0.53
PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 60.

17JUN76 1620HR AREA 1 SUBAREA 1 DEPTH 18-22 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 16

CHUM SALMON=ONCORHYNCHUS KETA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
11. 1 1

UNMARKED FISH
N= 10 AVERAGE LENGTH (MM) 58. S.E. 2.13
N= 10 AVERAGE WEIGHT (G) 2.01 S.E. 0.27
RED/GR
N= 1 AVERAGE LENGTH (MM) 63. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 2.43 S.E. 0.00
PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 6.
N= 6 AVERAGE LENGTH (MM) 61. S.E. 1.76
N= 6 AVERAGE WEIGHT (G) 2.10 S.E. 0.23
COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 1.
STICKLEBACKS=FAMILY GASTEROSTEIDAE

- 61 -

17JUN76 615HR AREA 1 SUBAREA 6 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) SEA
AT SET: SPEED (KM/H)

CHUM SALMON=ONCORHYNCHUS KETA	N= 10 AVERAGE LENGTH (MM)	77. S.E.	CATCH 13.	1.37
	N= 10 AVERAGE WEIGHT (G)	4.55 S.E.		0.27
PINK SALMON=ONCORHYNCHUS GORBUSCHA	N= 10 AVERAGE LENGTH (MM)	78. S.E.	CATCH 28.	0.90
	N= 10 AVERAGE WEIGHT (G)	4.65 S.E.		0.21
PACIFIC HERRING=CLUPEA HARENGUS PALLASI			CATCH	21.

17JUN76 830HR AREA 1 SUBAREA 6 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLW CLOUD (/10) 3 SEA CALM
AT SET: SPEED (KM/H) 0

PINK SALMON=ONCORHYNCHUS GORBUSCHA	N= 10 AVERAGE LENGTH (MM)	66. S.E.	CATCH 31.	1.43
	N= 10 AVERAGE WEIGHT (G)	2.80 S.E.		0.15
CHUM SALMON=ONCORHYNCHUS KETA	N= 10 AVERAGE LENGTH (MM)	75. S.E.	CATCH 12.	2.42
	N= 10 AVERAGE WEIGHT (G)	4.18 S.E.		0.41
COPPER ROCKFISH=SEBASTES CAURINUS			CATCH	1.
SHINER PERCH=CYMATOGASTER AGGREGATA			CATCH	2.
STICKLEBACKS=FAMILY GASTERosteidae			CATCH	2.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI			CATCH	500.

- 62 -

17JUN76	1025HR	AREA BIOLOGICAL STATION	1	SUBAREA 6	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			CLOUD	(/10)	1 SEA CALM
CHUM SALMON=ONCORHYNCHUS KETA			N= 3	AVERAGE LENGTH (MM)	62 S.E. CATCH 4.
			N= 3	AVERAGE WEIGHT (G)	2.21 S.E. 0.46
PINK SALMON=ONCORHYNCHUS GORBUSCHA			N= 3	AVERAGE LENGTH (MM)	73 S.E. CATCH 3.
			N= 3	AVERAGE WEIGHT (G)	3.64 S.E. 0.65
COHO SALMON=ONCORHYNCHUS KISUTCH					CATCH 2.
NORTHERN ANCHOVY=ENGRAULIS MORDAX MORDAX					CATCH 4.
PACIFIC SAND LANCE=AMMODYTES HEXAPTERUS					CATCH 4.
LINGCOD=OPHIODON ELONGATUS					CATCH 2.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI					CATCH 270.

17JUN76	1230HR	AREA BIOLOGICAL STATION	1	SUBAREA 6	DEPTH 4-9	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			SE	CLOUD	(/10)	1 SEA LT RIP
CHUM SALMON=ONCORHYNCHUS KETA			16	N= 10	AVERAGE LENGTH (MM)	CATCH 10.
				N= 10	AVERAGE WEIGHT (G)	2.24 S.E. 3.11 0.37
PINK SALMON=ONCORHYNCHUS GORBUSCHA						CATCH 5.
LINGCOD=OPHIODON ELONGATUS						CATCH 1.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI						CATCH 200.

- 63 -

17JUN76	1430HR	AREA BIOLOGICAL STATION	1 SUBAREA	6 DEPTH	4-11	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		E 16	CLOUD (/10)	1	SEA	LT RIP
CHUM SALMON=ONCORHYNCHUS KETA		N= 10 AVERAGE LENGTH (MM)	61	S.E.	12.	
		N= 10 AVERAGE WEIGHT (G)	2.27	S.E.	3.24	
STOMACH CONTENT N= 2 AVERAGE WEIGHT (MG)		6.5	%	0.33	1.43	
PINK SALMON=ONCORHYNCHUS GORBUSCHA		N= 5 AVERAGE LENGTH (MM)	57	S.E.	5.	
		N= 5 AVERAGE WEIGHT (G)	1.70	S.E.	2.62	
STICKLEBACKS=FAMILY GASTEROSTEIDAE				CATCH	0.26	1.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				CATCH		1.

17JUN76	1640HR	AREA BIOLOGICAL STATION	1 SUBAREA	6 DEPTH	5-11	1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		E 3-5	CLOUD (/10)	1	SEA	CALM
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				CATCH	300.	

17JUN76	630HR	AREA BIOLOGICAL STATION	1 SUBAREA	7		1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)			CLOUD (/10)		SEA	
CHUM SALMON=ONCORHYNCHUS KETA		N= 1 AVERAGE LENGTH (MM)	79	S.E.	1.	
		N= 1 AVERAGE WEIGHT (G)	4.61	S.E.	0.00	
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				CATCH	0.00	3.

- 64 -

17JUN76 843HR AREA 1 SUBAREA 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) 3 SEA CALM
AT SET: SPEED (KM/H)

CHUM SALMON-*ONCORHYNCHUS KETA*
N= 10 AVERAGE WEIGHT (G) 3.94 CATCH 42.
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 11.0 S.E. 3.94
PINK SALMON-*ONCORHYNCHUS GORBUSCHA*
N= 10 AVERAGE LENGTH (MM) 73 CATCH 193.
N= 10 AVERAGE WEIGHT (G) 3.70 S.E. 1.07
PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 53.
STICKLEBACKS-FAMILY GASTEROSTEIDAE CATCH 1.

17JUN76 1039HR AREA 1 SUBAREA 7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H)

CHUM SALMON-*ONCORHYNCHUS KETA*
N= 2 AVERAGE LENGTH (MM) 54 CATCH 2.
N= 2 AVERAGE WEIGHT (G) 1.35 S.E. 1.50
PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 1.
STICKLEBACKS-FAMILY GASTEROSTEIDAE CATCH 3.
KELP GREENLING-*HEXAGRAMMOS DECAGRAMMUS* CATCH 1.

17JUN76 1245HR AREA 1 SUBAREA 7 DEPTH 29-31 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON-*ONCORHYNCHUS KETA*
N= 4 AVERAGE LENGTH (MM) 67 CATCH 4.
N= 4 AVERAGE WEIGHT (G) 3.20 S.E. 3.35
PINK SALMON-*ONCORHYNCHUS GORBUSCHA*
N= 3 AVERAGE LENGTH (MM) 67 CATCH 3.
N= 3 AVERAGE WEIGHT (G) 2.82 S.E. 2.19
PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 40.
LINGCOD-*OPHIODON ELONGATUS* CATCH 2.

- 65 -

17JUN76 1440HR AREA 1 SUBAREA 7 DEPTH 26-29 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH
N= 3 AVERAGE LENGTH (MM) 67 S.E. 3.5
N= 3 AVERAGE WEIGHT (G) 2.98 S.E. 0.29

17JUN76 1655HR AREA 1 SUBAREA 7 DEPTH 22-26 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH
N= 7 AVERAGE LENGTH (MM) 55 S.E. 0.75
N= 7 AVERAGE WEIGHT (G) 1.60 S.E. 0.08

SHINER PERCH-*CYMATUGASTER AGGREGATA* CATCH 2.

17JUN76 645HR AREA 1 SUBAREA 12 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) 9 SEA
AT SET: SPEED (KM/H)

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* CATCH 280
N= 10 AVERAGE LENGTH (MM) 73 S.E. 1.62
N= 10 AVERAGE WEIGHT (G) 3.80 S.E. 0.31
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 5.8 % 0.76

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 131.
N= 10 AVERAGE LENGTH (MM) 75 S.E. 1.65
N= 10 AVERAGE WEIGHT (G) 4.38 S.E. 0.36

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 97.

COHO SALMON-*ONCORHYNCHUS KISUTCH* CATCH 2.

LINGCOD-*OPHIODON ELONGATUS* CATCH 1.

17JUN76	851HR	AREA 1 SUBAREA 12		1 SET
BIOLOGICAL STATION				
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10)	2 SEA	CALM
PINK SALMON=ONCORHYNCHUS GORBUSCHA				
N= 10 AVERAGE LENGTH (MM)		70.	S.E.	66.
N= 10 AVERAGE WEIGHT (G)		3.20	S.E.	1.64
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)		3.3	%	0.26
CHUM SALMON=ONCORHYNCHUS KETA				
N= 10 AVERAGE LENGTH (MM)		70.	S.E.	31.
N= 10 AVERAGE WEIGHT (G)		3.38	S.E.	2.58
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)		17.5	%	0.44
LINGCOD=OPHIODON ELONGATUS				
SOCKEYE SALMON=ONCORHYNCHUS NEKKA				
COHO SALMON=ONCORHYNCHUS KISUTCH				

17JUN76	1050HR	AREA 1 SUBAREA 12		1 SET
BIOLOGICAL STATION				
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10)	1 SEA	CALM
COHO SALMON=ONCORHYNCHUS KISUTCH				
CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA				
N= 1 AVERAGE LENGTH (MM)		138.	S.E.	2.
N= 1 AVERAGE WEIGHT (G)		35.90	S.E.	0.00
STOMACH CONTENT N= 1 AVERAGE WEIGHT (MG)		193.9	%	0.00
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				

17JUN76	1250HR	AREA 1 SUBAREA 12	DEPTH 5-13	1 SET
BIOLOGICAL STATION				
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		E 8	CLOUD (/10)	1 SEA LT RIP
CHUM SALMON=ONCORHYNCHUS KETA				
N= 4 AVERAGE LENGTH (MM)		67.	S.E.	4.
N= 4 AVERAGE WEIGHT (G)		3.10	S.E.	5.07
PINK SALMON=ONCORHYNCHUS GORBUSCHA				
N= 3 AVERAGE LENGTH (MM)		71.	S.E.	3.
N= 3 AVERAGE WEIGHT (G)		3.27	S.E.	1.53
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				

17JUN76 1455HR AREA 1 SUBAREA 12 DEPTH 4-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA CATCH 3.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 30.

17JUN76 1710HR AREA 1 SUBAREA 12 DEPTH 7-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA CATCH 20.
N= 10 AVERAGE LENGTH (MM) 61. S.E. 2.19
N= 10 AVERAGE WEIGHT (G) 2.26 S.E. 0.27
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 7.6 % 1.68

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 21.
N= 10 AVERAGE LENGTH (MM) 62. S.E. 1.16
N= 10 AVERAGE WEIGHT (G) 2.14 S.E. 0.11
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 6.2 % 1.45

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 150.
STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 1.

17JUN76 657HR AREA 1 SUBAREA 13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 9 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA CATCH 17.
N= 10 AVERAGE LENGTH (MM) 76. S.E. 3.12
N= 10 AVERAGE WEIGHT (G) 4.51 S.E. 0.53
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 8.4 % 0.93

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 67.
N= 10 AVERAGE LENGTH (MM) 72. S.E. 1.94
N= 10 AVERAGE WEIGHT (G) 3.63 S.E. 0.28
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 5.4 % 0.74

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 20.
LINGCOD=OPHIODON ELONGATUS CATCH 1.

17JUN76 904HR AREA 1 SUBAREA 13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA CATCH 11.

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
4. 1 1

UNMARKED FISH

RED/GR	N= 3	AVERAGE LENGTH (MM)	61.	S.E.	3.18
	N= 3	AVERAGE WEIGHT (G)	1.91	S.E.	0.27
	N= 1	AVERAGE LENGTH (MM)	68.	S.E.	0.00
	N= 1	AVERAGE WEIGHT (G)	2.57	S.E.	0.00

17JUN76 1103HR AREA 1 SUBAREA 13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H)

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 7.
CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA CATCH 2.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.

17JUN76 1305HR AREA 1 SUBAREA 14 DEPTH 13-15 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION SE CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 3-5

CHUM SALMON=ONCORHYNCHUS KETA CATCH 4.
N= 4 AVERAGE LENGTH (MM) 67. S.E. 1.65
N= 4 AVERAGE WEIGHT (G) 3.03 S.E. 0.35

COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 1.

- 69 -

17JUN76 1505HR AREA 1 SUBAREA 14 DEPTH 11-13 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON-*ONCORHYNCHUS KETA* CATCH 2.
N= 2 AVERAGE LENGTH (MM) 63. S.E. 8.50
N= 2 AVERAGE WEIGHT (G) 2.33 S.E. 0.82

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 9.

17JUN76 1720HR AREA 1 SUBAREA 14 DEPTH 5-11 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

PINK SALMON-*ONCORHYNCHUS GORBUSCHA* CATCH 1.

KELP GREENLING-*HEXAGRAMMOS DECAGRAMMUS* CATCH 1.

CHINOOK SALMON-*ONCORHYNCHUS TSHAWYTSCHA* CATCH 1.

STICKLEBACKS-FAMILY GASTEROSTEIDAE CATCH 2.

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 4.

17JUN76 720HR AREA 1 SUBAREA 18 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 8 SEA CALM
AT SET: SPEED (KM/H) 0

PACIFIC HERRING-*CLUPEA HARENGUS PALLASI* CATCH 100.

17JUN76	923HR	AREA 1 SUHAREA 18 BIOLOGICAL STATION		1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLM 0	CLOUD (/10) 1	SEA	CALM
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>	TOTAL CATCH	BY TYPE OF MARK		
	TOTAL CATCH	MARKS RED/GR		
	45.	1		
UNMARKED FISH				
RED/GR STOMACH CONTENT	N= 10 AVERAGE LENGTH (MM) N= 10 AVERAGE WEIGHT (G)	68 S.E. 3.13 S.E.	%	1.16 0.18
	N= 10 AVERAGE WEIGHT (MG)	11.8 S.E.	%	1.84
	N= 1 AVERAGE LENGTH (MM) N= 1 AVERAGE WEIGHT (G)	55 S.E. 1.65 S.E.	%	0.00 0.00
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>		CATCH		93.
	N= 10 AVERAGE LENGTH (MM) N= 10 AVERAGE WEIGHT (G)	67 S.E. 2.71 S.E.	%	1.19 0.15
STOMACH CONTENT	N= 10 AVERAGE WEIGHT (MG)	6.9 S.E.	%	1.27
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>		CATCH		75.
LINGCOD- <i>OPHIODON ELONGATUS</i>		CATCH		2.

17JUN76	1121HR	AREA 1 SUHAREA 18 BIOLOGICAL STATION		1 SET
WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)		CLOUD (/10) 1	SEA	CALM
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>		CATCH		48.
	N= 10 AVERAGE LENGTH (MM) N= 10 AVERAGE WEIGHT (G)	64 S.E. 2.67 S.E.	%	2.23 0.31
STOMACH CONTENT	N= 10 AVERAGE WEIGHT (MG)	12.0 S.E.	%	2.24
PINK SALMON- <i>ONCORHYNCHUS GORBUSCHA</i>		CATCH		93.
	N= 10 AVERAGE LENGTH (MM) N= 20 AVERAGE WEIGHT (G)	63 S.E. 2.42 S.E.	%	1.08 1.23
STOMACH CONTENT	N= 20 AVERAGE WEIGHT (MG)	4.0 S.E.	%	0.83
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>		CATCH		175.
PILE PERCH- <i>RHACOCHILUS VACCA</i>		CATCH		25.
NORTHERN ANCHOVY- <i>ENGRAULIS MORDAX MORDAX</i>		CATCH		1.
PRICKLEBACKS-FAMILY STICHAEIDAE		CATCH		1.
LINGCOD- <i>OPHIODON ELONGATUS</i>		CATCH		12.
PIPEFISHES-FAMILY SYNGNATHIDAE		CATCH		1.
SCORPIONFISHES-FAMILY SCORPAENIDAE		CATCH		1.
STRIPED SEAPERCH- <i>EMBIOTOCA LATERALIS</i>		CATCH		2.

- 71 -

17JUN76 1325HR AREA 1 SUBAREA 18 DEPTH 2-7 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA
N= 10 AVERAGE LENGTH (MM) 59. CATCH 26.
N= 10 AVERAGE WEIGHT (G) 2.11 S.E. 1.88
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 9.6 % 0.19
2.27

PINK SALMON=ONCORHYNCHUS GORBUSCHA
TOTAL TOTAL CATCH BY TYPE OF MARK
CATCH MARKS RED/GR
47. 1 1

UNMARKED FISH

N= 10 AVERAGE LENGTH (MM) 60. S.E. 1.33
N= 10 AVERAGE WEIGHT (G) 1.88 S.E. 0.13
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 3.2 % 0.85

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 16.

SHINER PERCH=CYMATUGASTER AGGREGATA CATCH 40.

PILE PERCH=RHACOCHILUS VACCA CATCH 12.

KELP PERCH=BRACHYISTIUS FRENATUS CATCH 3.

CRESCENT GUNNEL=PHOLIS LAETA CATCH 1.

NORTHERN ANCHOVY=ENGRAULIS MORDAX MORDAX CATCH 1.

LINGCOD=OPHIODON ELONGATUS CATCH 15.

PRICKLEBACKS=FAMILY STICHAEIDAE CATCH 1.

PENPOINT GUNNEL=APUDICHTHYS FLAVIDUS CATCH 1.

17JUN76 1525HR AREA 1 SUBAREA 18 DEPTH 2-11 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 3-5

CHUM SALMON=ONCORHYNCHUS KETA	CATCH	27.	
N= 10 AVERAGE LENGTH (MM)	53.	S.E.	1.13
N= 10 AVERAGE WEIGHT (G)	1.44	S.E.	0.09
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)	5.2	%	1.80
PINK SALMON=ONCORHYNCHUS GORBUSCHA	CATCH	64.	
N= 10 AVERAGE LENGTH (MM)	57.	S.E.	0.93
N= 10 AVERAGE WEIGHT (G)	1.62	S.E.	0.08
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG)	9.1	%	2.81
COHO SALMON=ONCORHYNCHUS KISUTCH	CATCH	5.	
CHINOOK SALMON=ONCORHYNCHUS TSCHAWYTSCHA	CATCH	2.	
SHINER PERCH=CYMATOGASTER AGGREGATA	CATCH	1.	
LINGCOD=OPHIODON ELONGATUS	CATCH	4.	
PACIFIC HERRING=CLUPEA HARENGUS PALLASI	CATCH	30.	

17JUN76 1745HR AREA 1 SUBAREA 18 DEPTH 2-9 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA	CATCH	6.	
N= 6 AVERAGE LENGTH (MM)	65.	S.E.	4.50
N= 6 AVERAGE WEIGHT (G)	2.62	S.E.	0.58
PINK SALMON=ONCORHYNCHUS GORBUSCHA	CATCH	8.	
N= 8 AVERAGE LENGTH (MM)	57.	S.E.	1.15
N= 8 AVERAGE WEIGHT (G)	1.60	S.E.	0.11
PACIFIC HERRING=CLUPEA HARENGUS PALLASI	CATCH	200.	
LINGCOD=OPHIODON ELONGATUS	CATCH	2.	
STICKLEBACKS=FAMILY GASTEROSTEIDAE	CATCH	1.	
SHINER PERCH=CYMATOGASTER AGGREGATA	CATCH	5.	

17JUN76 1735HR AREA 1 SUBAREA 19 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 8 SEA CALM
AT SET: SPEED (KM/H) 0

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 25.

- 73 -

17JUN76 935HR AREA 1 SUBAREA 19 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLW CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA CATCH 1.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 2.

17JUN76 1132HR AREA 1 SUBAREA 19 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H)

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 48.
N= 10 AVERAGE LENGTH (MM) 71 S.E. 0.74
N= 10 AVERAGE WEIGHT (G) 3.21 S.E. 0.13

CHUM SALMON=ONCORHYNCHUS KETA CATCH 12.
N= 10 AVERAGE LENGTH (MM) 71 S.E. 2.38
N= 10 AVERAGE WEIGHT (G) 3.78 S.E. 0.42

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 41.

17JUN76 1340HR AREA 1 SUBAREA 19 DEPTH 26 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION N CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA CATCH 1.
N= 1 AVERAGE LENGTH (MM) 54. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.84 S.E. 0.00

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 1.
N= 1 AVERAGE LENGTH (MM) 58. S.E. 0.00
N= 1 AVERAGE WEIGHT (G) 1.86 S.E. 0.00

KELP GREENLING=HEXAGRAMMOS DECAGRAMMUS CATCH 1.

17JUN76 1540HR AREA 1 SUBAREA 19 DEPTH 24-26 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 16

NO CATCH

- 74 -

17JUN76 1800HR AREA 1 SUBAREA 19 DEPTH 22-26 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

CHUM SALMON=ONCORHYNCHUS KETA CATCH 2.
N= 2 AVERAGE LENGTH (MM) 54. S.E. 1.50
N= 2 AVERAGE WEIGHT (G) 1.53 S.E. 0.07

STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 1.

CHINOOK SALMON=ONCORHYNCHUS TSCHAWYTSCHA CATCH 3.

17JUN76 753HR AREA 1 SUBAREA 24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION CLM CLOUD (/10) 4 SEA CALM
AT SET: SPEED (KM/H) 0

PINK SALMON=ONCORHYNCHUS GORBUSCHA CATCH 62.
N= 10 AVERAGE LENGTH (MM) 80. S.E. 2.88
N= 10 AVERAGE WEIGHT (G) 4.92 S.E. 0.60
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 3.9 % 0.40

CHUM SALMON=ONCORHYNCHUS KETA CATCH 18.
N= 10 AVERAGE LENGTH (MM) 76. S.E. 5.47
N= 10 AVERAGE WEIGHT (G) 4.69 S.E. 1.04

CHINOOK SALMON=ONCORHYNCHUS TSCHAWYTSCHA CATCH 4.

LINGCOD=OPHIODON ELONGATUS CATCH 1.

Coho Salmon=ONCORHYNCHUS KISUTCH CATCH 1.

PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 98.
N= 97 AVERAGE LENGTH (MM) 107. S.E. 1.19

17JUN76 952HR AREA 1 SUBAREA 24 1 SET
WEATHER: WIND DIRECTION CLN CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 0

PINK SALMON=ONCORHYNCHUS GORBUSCHA
N= 10 AVERAGE LENGTH (MM) 65. S.E. 59.
N= 20 AVERAGE WEIGHT (G) 2.46 S.E. 1.05
STOMACH CONTENT N= 20 AVERAGE WEIGHT (MG) 5.8 % 1.22
CHUM SALMON=ONCORHYNCHUS KETA
N= 15 AVERAGE LENGTH (MM) 64. S.E. 49.
N= 15 AVERAGE WEIGHT (G) 2.58 S.E. 1.87
STOMACH CONTENT N= 10 AVERAGE WEIGHT (MG) 6.3 % 0.25
CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA CATCH 1.
COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 1.
LINGCOD=OPHIODON ELONGATUS CATCH 5.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI CATCH 25.

17JUN76 1200HR AREA 1 SUBAREA 24 1 SET
WEATHER: WIND DIRECTION NW CLOUD (/10) SEA
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA
N= 4 AVERAGE LENGTH (MM) 70. S.E. 4.
N= 4 AVERAGE WEIGHT (G) 3.49 S.E. 2.12
PINK SALMON=ONCORHYNCHUS GORBUSCHA
N= 5 AVERAGE LENGTH (MM) 70. S.E. 5.
N= 5 AVERAGE WEIGHT (G) 3.19 S.E. 2.66
0.39

17JUN76 1355HR AREA 1 SUBAREA 24 DEPTH 9-16 1 SET
WEATHER: WIND DIRECTION N CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA
N= 2 AVERAGE LENGTH (MM) 60. S.E. 2.
N= 2 AVERAGE WEIGHT (G) 2.17 S.E. 3.00
0.57
COHO SALMON=ONCORHYNCHUS KISUTCH CATCH 3.
STICKLEBACKS=FAMILY GASTEROSTEIDAE CATCH 1.

- 76 -

17JUN76 1600HR AREA 1 SUBAREA 24 DEPTH 9-15 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA LT RIP
AT SET: SPEED (KM/H) 8

COHO SALMON-*ONCORHYNCHUS KISUTCH* CATCH 1.

CHINOOK SALMON-*ONCORHYNCHUS Tshawytscha* CATCH 1.

STICKLEBACKS-FAMILY GASTEROSTEIDAE CATCH 1.

17JUN76 1820HR AREA 1 SUBAREA 24 DEPTH 9-16 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION E CLOUD (/10) 1 SEA CALM
AT SET: SPEED (KM/H) 2- 3

LINGCOD-*OPHIODON ELONGATUS* CATCH 1.

18JUN76 1345HR AREA 1 1 SET
50 FATHUM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY	TIDES	
AT SET TIME		MAX TEMP (C)	PST FEET	METERS
WIND DIRECTION	SE	23.9	445	8.1 2.47
SPEED (KM/H)	3	MIN TEMP (C)	930	10.6 3.23
CLOUD (/10)	9	PRECIP. (MM)	1540	6.5 1.98
SEA CALM		SUN (HH)	2245	14.4 4.39
PACIFIC HERRING-CLUPEA HARENGUS PALLASI			CATCH	35.
PACIFIC SAND LANCE-AMMODYTES HEXAPTERUS			CATCH	115.
SHINER PERCH-CYMATOGASTER AGGREGATA			CATCH	60.
SOCKEYE SALMON-ONCORHYNCHUS NEKKA			CATCH	1.
CHUM SALMON-ONCORHYNCHUS KETA		N= 1 AVERAGE WEIGHT (G) 2,15 S.E. 0.00	CATCH	1.
STOMACH CONTENT N= 1 AVERAGE WEIGHT (MG) 7.5 %				1.74

18JUN76 1400HR AREA 1 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLOUD (/10)	7 SEA	CALM
CHUM SALMON-ONCORHYNCHUS KETA			
N= 4 AVERAGE WEIGHT (G) 3.03 S.E. 3.03			4.
STOMACH CONTENT N= 4 AVERAGE WEIGHT (MG) 3.9 %			0.64
PINK SALMON-ONCORHYNCHUS GORBUSCHA		CATCH	1.
PACIFIC SAND LANCE-AMMODYTES HEXAPTERUS		CATCH	6.
LINGCOD-OPHIODON ELONGATUS		CATCH	1.
PACIFIC HERRING-CLUPEA HARENGUS PALLASI		CATCH	1.

18JUN76 1415HR AREA 1 SUBAREA 24 1 SET
BIOLOGICAL STATION

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLOUD (/10)	7 SEA
PACIFIC HERRING-CLUPEA HARENGUS PALLASI		CATCH 16.

18JUN76 1045HR AREA 2 HAMMUND BAY 1 SET

WEATHER: WIND DIRECTION SE CLOUD (/10) 7 SEA RIPPLE
AT SET: SPEED (KM/H) 8

CHUM SALMON=ONCORHYNCHUS KETA	N= 4	AVERAGE LENGTH (MM)	18.97	CATCH S.E.	5.
STOMACH CONTENT	N= 4	AVERAGE WEIGHT (G)	10.4	%	1.97 2.64
COHO SALMON=ONCORHYNCHUS KISUTCH				CATCH	3.
SHINER PERCH=CYMATUGASTER AGGREGATA				CATCH	61.
TUBE SNOOTS=FAMILY AULORHYACHIDAE				CATCH	1.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				CATCH	4.
PINK SALMON=ONCORHYNCHUS GORBUSCHA				CATCH	8.

18JUN76 945HR AREA 10 JACKS POINT 1 SET

WEATHER: WIND DIRECTION SE CLOUD (/10) 7 SEA RIPPLE
AT SET: SPEED (KM/H) 8

CHINOOK SALMON=ONCORHYNCHUS Tshawytscha	N= 10	AVERAGE LENGTH (MM)	73.0	CATCH S.E.	10. 3.62
STOMACH CONTENT	N= 10	AVERAGE WEIGHT (G)	5.00	S.E.	1.02
CHUM SALMON=ONCORHYNCHUS KETA	N= 5	AVERAGE WEIGHT (MG)	19.3	%	1.93
STOMACH CONTENT	N= 5	AVERAGE WEIGHT (G)	4.34	S.E.	4.34
SUCKEYE SALMON=ONCORHYNCHUS NERKA			3.9	%	0.45
PINK SALMON=ONCORHYNCHUS GORBUSCHA				CATCH	1.
PACIFIC HERRING=CLUPEA HARENGUS PALLASI				CATCH	2.
				CATCH	3.

18JUN76 915HR AREA 17 MARK BAY 1 SET

WEATHER: WIND DIRECTION SE CLOUD (/10) 5 SEA RIPPLE
AT SET: SPEED (KM/H) 8

PINK SALMON=ONCORHYNCHUS GORBUSCHA				CATCH	2.
CHUM SALMON=ONCORHYNCHUS KETA	N= 2	AVERAGE WEIGHT (G)	2.02	CATCH S.E.	2.
STOMACH CONTENT	N= 2	AVERAGE WEIGHT (MG)	3.8	%	0.94
STICKLEBACKS=FAMILY GASTERosteidae				CATCH	2.

22JUN76 1530HR AREA 1 3 SETS

50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS			SUMMARY FOR DAY			TIDES		
AT SET TIME	WIND DIRECTION	SPEED (KM/H)	MAX TEMP (C)	MIN TEMP (C)	PRECIP. (MM)	PST	FEET	METERS
	NW	8-16	20.0	10.0	2.0	30	13.6	4.15
					SUN (HR)	810	5.2	1.58
						1530	12.0	3.66
						1940	10.8	3.29
COHO SALMON=ONCORHYNCHUS KISUTCH						CATCH	5.	
PINK SALMON=ONCORHYNCHUS GORBUSCHA						CATCH	16.	
CHUM SALMON=ONCORHYNCHUS KETA STOMACH CONTENT N= 15 AVERAGE WEIGHT (G) 1,79 S.E. %						CATCH	25.	
PACIFIC HERRING=CLUPEA HARENGUS PALLASI						CATCH	200.	
NORTHERN ANCHOVY=ENGRAULIS MORDAX MORDAX						CATCH	1.	

22JUN76 1410HR AREA 10 JACKS POINT 1 SET

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	NW 2- 8	CLOUD (/10)	8	SEA	CALM
CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA					
CHUM SALMON=ONCORHYNCHUS KETA					
PINK SALMON=ONCORHYNCHUS GORBUSCHA					
PACIFIC HERRING=CLUPEA HARENGUS PALLASI					

22JUN76 1430HR AREA 17 MARK BAY 1 SET

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLM 0	CLUUD (/10)	8	SEA	CALM
CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA					
COHO SALMON=ONCORHYNCHUS KISUTCH					
PACIFIC HERRING=CLUPEA HARENGUS PALLASI					

- 80 -

25JUN76

AREA 2

50 FATHOM PURSE SEINES HAMMOND BAY

WEATHER CONDITIONS		SUMMARY FOR DAY		TIDES	
AT SET TIME		MAX TEMP (C)	17.8	PST	FEET METERS
WIND DIRECTION		MIN TEMP (C)	3.9	225	13.6 4.15
SPEED (KM/H)		PRECIP. (MM)	0.5	1000	3.2 0.98
CLOUD (/10)		SUN (HR)	11.9	1745	14.0 4.27
SEA				2230	11.5 3.51
CHINOOK SALMON- <i>ONCORHYNCHUS Tshawytscha</i>				CATCH	1.
N= 1 AVERAGE LENGTH (MM) 182. S.E. 0.00					
N= 1 AVERAGE WEIGHT (G) 82.65 S.E. 0.00					
STOMACH CONTENT N= 1 AVERAGE WEIGHT (MG) 187.6 % 1.13					

- 81 -

28JUN76 1430HR AREA 10

50 FATHOM PURSE SEINES JACKS POINT

WEATHER CONDITIONS

AT SET TIME	SUMMARY FOR DAY
WIND DIRECTION	NW
SPEED (KM/H)	16
CLOUD (/10)	6
SEA	SUN (HR)

TIDES	PST	FEET	METERS
430	13.7	4.18	
1155	2.1	0.64	
1925	15.0	4.57	

PACIFIC HERRING-CLOUPEA HARENGUS PALLASI

CATCH 2.

28JUN76 1400HR AREA 17
MARK HAY

1 SET

WEATHER: WIND DIRECTION NW CLOUD (/10) 10 SEA
AT SET: SPEED (KM/H) 24

NO CATCH

5JUL76 1530HR AREA 10 DEPTH 7-11 2 SETS
50 FATHOM PURSE SEINES JACKS POINT

WEATHER CONDITIONS		SUMMARY FOR DAY	TIDES
AT SET TIME			PST FEET METERS
WIND DIRECTION	NW	MAX TEMP (C) 25.0	555 5.5 1.68
SPEED (KM/H)	8-16	MIN TEMP (C) 11.2	1225 11.6 3.54
CLOUD (/10)	5	PRECIP. (MM) 0.0	1705 9.2 2.80
SEA RIPPLE		SUN (HR) 8.9	2325 15.1 4.60

CHINOOK SALMON- <i>ONCORHYNCHUS Tshawytscha</i>	CATCH 35.
CHUM SALMON- <i>ONCORHYNCHUS KETA</i>	CATCH 5.
PACIFIC HERRING- <i>CLUPEA HARENGUS PALLASI</i>	
STICKLEBACKS-FAMILY GASTEROSTEIDAE	

9JUL76 1300HR AREA 1 DEPTH 9 1 SET
 50 FATHOM PURSE SEINES BIOLOGICAL STATION

WEATHER CONDITIONS		SUMMARY FOR DAY	PST	TIDES	
AT SET TIME		MAX TEMP (C)	17.8	FEET	METERS
WIND DIRECTION	SE	MIN TEMP (C)	12.3	210	14.8
SPEED (KM/H)	8	PRECIP. (MM)	4.1	940	2.1
CLOUD (/10)	10	SUN (HR)	6.6	1700	14.7
SEA CALM				2200	11.2

CHINOOK SALMON=ONCORHYNCHUS TSHAWYTSCHA		CATCH
N= 2	AVERAGE LENGTH (MM)	88. S.E.
N= 2	AVERAGE WEIGHT (G)	8.26 S.E.
STOMACH CONTENT	N= 2 AVERAGE WEIGHT (MG)	6.2 %
CHUM SALMON=ONCORHYNCHUS KETA		CATCH
N= 13	AVERAGE WEIGHT (G)	2.13 S.E.
STOMACH CONTENT	N= 13 AVERAGE WEIGHT (MG)	7.7 %

9JUL76 1400HR AREA 17 DEPTH 4 2 SETS
 MARK BAY

WEATHER: WIND DIRECTION AT SET: SPEED (KM/H)	CLOUD (/10)	9	SEA
COHO SALMON=ONCORHYNCHUS KISUTCH			CATCH 12.
SHINER PERCH=CYMATOGASTER AGGREGATA			CATCH 6.
CHUM SALMON=ONCORHYNCHUS KETA			CATCH 1.
STOMACH CONTENT N= 1 AVERAGE WEIGHT (G)	2.43	S.E.	0.00
STOMACH CONTENT N= 1 AVERAGE WEIGHT (MG)	12.9	%	2.66