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## SUMMARY OF BRITISH COLUMBIA HERRING SAMPLING DATA FOR THE 1991-92 SEASON

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Nanaimo, British Columbia V9R 5K6

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## ABSTRACT

Hamer, L. and J. Schweigert. 1992. Summary of British Columbia herring sampling data for the 1991-92 season. Can. Data Rep. Fish. Aquat. Sci. 896: 107 p.

Age compositions and the average length and weight at age, the sex ratio, and the maturity stages of herring samples combined by geographical area, time period, gear type, and source are tabulated for the 1991-92 season. Tables are given for two geographical groupings: statistical areas and sections.

Key words: herring samples, age composition, geographical groupings

## RÉSUMÉ

Hamer, L. and J. Schweigert. 1992. Summary of British Columbia herring sampling data for the 1991-92 season. Can. Data Rep. Fish. Aquat. Sci. 896: 107 p.

Le présent rapport rassemble sous forme de tableaux la composition par âge, la longueur et le poids moyen en fonction de l'âge, le rapport des sexes, et les stades des échantillons de hareng, combinés par zone géographique, période, type d'engin et source, pour la saison 1992-1992. Les tableaux sont présentés selon deux regroupements géographiques : zones statistiques et sections.

Mots clés : échantillons de hareng, composition par âge, regroupements géographiques.

## INTRODUCTION

Biological samples of herring are collected and sampled annually for length, weight, sex, maturity, age, and gonad weight. This information is used in stock assessments, and for determining stock characteristics. As well, it is useful to fishery managers located along the coast of British Columbia. This report summarizes biological characteristics by geographical groupings, time periods, gear, and source types.

Individual fish records since the 1950-51 season are maintained on computer files. These files provide a 42-year series of data accessible for analyses and modelling.

## METHODS

The catch sampling program collects samples from a variety of sources.

Pre-fishery charters provide the majority of samples. Charter vessels assess all major herring stocks to get biological sampling data, and to provide information for management of roe fisheries (Armstrong, 1989). (A 'major' stock is a stock that can regularly support roe fisheries.) Charter timing is set to ensure that the vessels are available before and during the main spawning in each area. Department of Fisheries and Oceans (DFO) staff on board the charter vessels, as well as vessel crew, collect samples from the test sets.

Commercial samples are obtained from two types of fisheries: roe fisheries, and food and bait fisheries. Roe fisheries are sampled with the goal of collecting ten samples from each seine fishery, and six samples from each gillnet fishery. A sampling plan is designed for each fishery to ensure that the sample series collected represents the entire catch in time, gear distribution, and space. The food and bait fisheries are currently very small both in quota and numbers of vessels licensed to fish (Chalmers, 1989). Consequently, each vessel participating in the food and bait fishery is expected to provide a biological sample.

Various programs within DFO organized research cruises and collected biological samples.

All biological samples are frozen on board vessels and shipped to the Pacific

Biological Station where they are processed following standard procedures described by Hamer (1989).

Gonad maturities are classified according to a modified Hjort maturity scale (Table 1). Female roe maturities in the data summaries are defined as:

Immature	-	Hjort stages 1 - 4
Mature	-	Hjort stages 5 - 6
Spent	-	Hjort stages 7 - 8.

Fish classified as immature in estimating the sex ratio are those whose gonads were not sufficiently developed for sex determination.

## DATA COMPILATION AND SCREENING

The recorded data are entered onto computer tapes. The data are screened by computer for relationships between age, length, and weight which are outside the normal range for the coast as a whole (mean +/- 2 standard deviations). Anomalies are listed and the associated data checked for possible errors in recording or coding. Gonad length and weight relationships were determined, and values outside of a range of 3 standard deviations from the mean were deleted.

## AGE DETERMINATION

Herring ages follow the "year of life" convention. Therefore, fish in their first year are designated as age "0+". (In previous sample summaries, an age 0+ fish would have been reported as age 1, an age 1+ fish would have been reported as age 2, etc.). There has been no change in the ageing method - only in the way the ages are reported (i.e., herring birthdays are at spawning, and not on January 1, which is the convention for many other fish species).

A revised system of ageing herring has been used since the 1987-88 season. Before that season, a fish was either assigned an age or was classified as unageable. With the revised ageing system, the option of two possible ages was used when it was difficult to positively determine an age. At present there is no optimal procedure for incorporating these data into age composition estimates so they continue to be treated as unageable. Therefore, the age compositions in this report are based only on fish for which a single age was assigned.

## RESULTS

Four hundred and three biological samples were processed in the 1991-92 season.

Thirteen seine vessels (Table 2) and seven gillnet vessels were chartered to help manage the 1992 roe herring fisheries through hydro-acoustic surveys and test fishing. An additional three vessels were chartered to assist in spawn assessment after the fisheries were completed. A total of 257 pre-fishery seine charter samples and four gillnet charter samples were processed.

The 1992 roe herring fisheries occurred in the Queen Charlotte Islands, Prince Rupert District, Strait of Georgia, and west coast of Vancouver Island assessment regions (Figs. 1-8) between March 4 and March 30. The 1992 roe quota of 25,263 tonnes was the lowest quota available since 1986. Adequate stock soundings on the west coast of the Queen Charlotte Islands permitted a seine fishery for the third consecutive year. A reduced seine quota, and no gillnet quota were set for the east coast of the Queen Charlotte Islands. Continuing strong stock strength in the Strait of Georgia region resulted in a seine fishery in this region, as well as gillnet fisheries for both single and double licensed punts. West coast of Vancouver Island quotas were set at less than one half of the quota in 1991. One hundred and ten samples (43 gillnet and 67 seine), were processed from the 13 openings (Table 3).

The food and bait herring fisheries took place in Johnstone Strait and the Strait of Georgia during November and December, 1991. Nine samples were collected from the 18 vessels eligible to fish in the Strait of Georgia.

Research samples in the 1991-92 season were collected from three sources. The La Perouse project conducted a research cruise to study offshore herring year-class strength and production. The vessel chartered for this project, the CALEDONIAN, collected seven samples. Another two research samples were acquired by the DFO seiner WALKER ROCK, which conducts annual fall and winter hydroacoustic surveys in the lower Strait of Georgia. The W.E. RICKER provided six research samples. These fish were caught in tows made during a hydroacoustic survey of Browning Entrance and Juan Perez Inlet. The W.E.RICKER collected an additional three samples while on various research cruises on the west coast of Vancouver Island.

The following types of information, with associated table numbers, are summarized in this report:

Charter vessel information	Table 2
Roe herring fishery summaries	Table 3
Codes for sample data	Table 4
Week numbers for sample data	Table 5
Sample summaries	Table 6
Data summaries	Tables 7-13.

The data summaries include various groupings of samples by geographical areas, time periods, gear and source types. Each summary contains information on the age composition, the average length and weight at age, the sex ratio, and the maturity stages of the combined samples in that report.

#### ACKNOWLEDGMENTS

Margaret Burke, Karen Charles, Darlene Gillespie, and Diana Little of the Fish Ageing Unit determined the ages. J.O. Thomas and Associates Ltd. collected the roe fishery samples, and Tideview Services processed all samples.

#### REFERENCES

- Armstrong, R.W. 1989. The 1989 roe herring charter vessel monitoring and sampling program. Can. Ind. Aquat. Sci. 199: 131 p.
- Bowers, A.B. and F.G.T. Holliday. 1961. Historical changes in the gonad associated with the reproductive cycle of the herring (Clupea harengus L.). Mar. Res. Scot. 5: 16 p.
- Chalmers, D.D. 1989. Review of the 1987-88 British Columbia herring fishery and spawn abundance. Can. Ind. Rep. Fish. Aquat. Sci. No. 198: 83 p.
- Hamer, L. 1989. Procedures for collecting and processing British Columbia herring samples. Can. MS Rep. Fish. Aquat. Sci. 2030: 27 p.
- Parrish, B.B. and A. Saville. 1965. The biology of the northeast Atlantic herring populations. Oceanogr. Mar. Biol. Annu. Rev. 3: 323-373.

Table 1. Maturity stages for Pacific herring (adapted from Bowers and Holliday 1961; Parrish and Saville 1965). These descriptions are intended as general guidelines. Length of time samples have been frozen, thawing time, and different handling procedures may alter the colour of the gonads. Therefore, the texture of the gonad is also used to assess maturity. The timing description is also a general guideline due to the wide range in spawn timing on the British Columbia coast.

Stage	State of Maturity	Gonad appearance	Description	Timing
I	Undeveloped	Thread-shaped	Virgin herring with small gonads, less than 2 mm broad. Accurate macroscopic determination of sex not possible. Fat is visible in the body cavity.	Year-round for young herring usually less than 150 mm in length. (However, some herring as small as 125 mm may have mature gonads.)
II	Starting	Ribbon-shaped	Gonads increased in breadth to 3-5 mm. Sex determination difficult. Testes reddish-grey coloured and knife-shaped. Ovaries reddish-wine coloured and bullet-shaped at tip. (The gonads of virgins and some repeat spawners cannot be differentiated macroscopically.) Fat is visible in the body cavity.	Late spring and early summer.
III	Developing	Tube-like	Gonads thickened, increased in breadth (5-15 mm) and elongated, but not extending full length of body cavity. Ovaries red to reddish-orange, granular in appearance, and bullet-shaped at the tip. Testes reddish-grey, smooth in appearance, and knife-shaped.	Usually late summer to early fall, but may extend into winter and early spring.
IV	Maturing	Prominent	Gonads extend full length of body cavity. Ovaries reddish-orange to yellow; eggs distinguishable, opaque, variable in size and separate. Testes mostly grey, firmer, and will ooze milt if sliced with a knife. Blood vessels often clearly visible in the ovary and testes walls.	Usually late fall and winter, but may extend to as late as March. (Slightly earlier in males than females.)
V	Mature	Bulging	Few or no blood vessels visible in gonad walls. Walls of body cavity thin. Ovaries gold-yellow, firm and will often break into sections. Eggs mostly transparent and uniform in size. Testes usually milk-white, soft and plump; and milt will flow under pressure.	Mid-winter to late spring.
VI	Ripe	Running	Gonads do not hold their shape. Ovaries look and feel gelatinous. Segmentation is lost. Eggs are transparent and sticky to the touch. Testes runny, and have a curdled appearance. Milt flows easily without external pressure.	A few days prior to spawning (usually in late winter to spring).
VII	Spent	Baggy	Gonads slack. Sex determination difficult. Ovaries may contain a few residual eggs. Testes limp and bloodshot. Body wall thin and no fat present; blood in body cavity.	Spring for the first few weeks following spawning.
VIII	Recovering	Compressed	Gonads wide-coloured and usually longer, fuller and not as slack as Stage VII. Blood vessels prominent. Little or no fat in the body cavity.	Late spring and early summer.

Table 2. 1992 herring charter vessels by region and duration, and biological samples processed from each vessel.

Region	Vessel	Duration	Samples processed
Queen Charlotte Islands	CHRISTAV	08/03 - 02/04	24
	VAMPY I	12/03 - 06/04	14
	VENTUROUS*	02/03 - 14/03*	N/A
Prince Rupert District	PACIFIC DISCOVERY	14/03 - 08/04	23
	VENTUROUS*	20/03 - 01/04*	12
Central Coast	ARGENT 1*	15/03 - 29/03	27
	OCEAN CLOUD	06/03 - 31/03	42
	WESTERN PRINCESS	02/03 - 27/03	34
Strait of Georgia/ Johnstone Strait	ARGENT 1*	28/02 - 13/03	7
	NITA DAWN	24/02 - 20/03	23
	SNOW DRIFT	24/02 - 20/03	16
West Coast Vancouver Island	ANTE B	25/02 - 21/03	26
	DELTA HARVESTER	25/02 - 21/03	10
	ELLING K	25/02 - 21/03	16
	VIKING PRIDE	25/02 - 21/03	17
Total			257

\*Split charter

Table 3. Summary of 1992 roe herring fisheries.

Region	Gear	Management Areas	Date	Opening Time	Duration	Hauled Catch (tonnes)
Queen Charlotte Islands	SN	2-31,32,33	16/03/92	0840	1:56	2340
	SN	2-76,77	18/03/92	1031	5:08	970
Prince Rupert District	GN	4-5 to 8,14	26/03/92	1200	8:00	3550
	SN	5-4	30/03/92	1300	2:25	1120
Central Coast	SN	7-12,13	19/03/92	1406	3:27	6270
	GN	7-3,8,9,12,19,21	24/03/92	1005	9:00	980
Strait of Georgia (s = single license, d = double license)	SN	14-11,15	04/03/92	1330	4:57	3100
	GN-S	14-7 TO 11,13	14/03/92	0800	3:00	2500
	GN-D	14-7 TO 11,13	15/03/92	0800	7:30	6000
West Coast Vancouver Island	SN	23-9,10	06/03/92	1230	5:00	1180
	SN	23-9,10	07/03/92	1501	3:04	900
	SN	23-9,10	08/03/92	1101	0:13	740
	GN	23-10,11	06/03/92	1030	6:30	560

\*SN - Seine  
GN - Gillnet

Table 4. Codes for British Columbia herring sampling data.

<u>A. Gear</u>		<u>B. Source</u>	
19	Gillnet	0	Roe fishery
29	Seine	1	Bait fishery
20	Salmon seine	2	Research - inshore
21	Other seine	3	Research - offshore
70	Beach seine	4	Other
50	Other trawl	5	Pre-fishery charter
59	Herring trawl	6	Food
01	Other	7	Reduction Fishery
<u>C. Preservation</u>		<u>D. Sex</u>	
0	Frozen	1	Male
1	Fresh	2	Female
2	Salted	3	Unknown
3	Other		
4	Brined		

Table 5. Week numbers for Pacific herring data for the 1991-92 season.

Week Number	Duration	Week Number	Duration
1.	JULY 1-JULY 6	27.	DEC. 30-JAN. 4
2.	JULY 7-JULY 13	28.	JAN. 5-JAN. 11
3.	JULY 14-JULY 20	29.	JAN. 12-JAN. 18
4.	JULY 21-JULY 27	30.	JAN. 19-JAN. 25
5.	JULY 28-AUG. 3	31.	JAN. 26-FEB. 1
6.	AUG. 4-AUG. 10	32.	FEB. 2-FEB. 8
7.	AUG. 11-AUG. 17	33.	FEB. 9-FEB. 15
8.	AUG. 18-AUG. 24	34.	FEB. 16-FEB. 22
9.	AUG. 25-AUG. 31	35.	FEB. 23-FEB. 29
10.	SEPT. 1-SEPT. 7	36.	MAR. 1-MAR. 7
11.	SEPT. 8-SEPT. 14	37.	MAR. 8-MAR. 14
12.	SEPT. 15-SEPT. 21	38.	MAR. 15-MAR. 21
13.	SEPT. 22-SEPT. 28	39.	MAR. 22-MAR. 28
14.	SEPT. 29-OCT. 5	40.	MAR. 29-APR. 4
15.	OCT. 6-OCT. 12	41.	APR. 5-APR. 11
16.	OCT. 13-OCT. 19	42.	APR. 12-APR. 18
17.	OCT. 20-OCT. 26	43.	APR. 19-APR. 25
18.	OCT. 27-NOV. 2	44.	APR. 26-MAY 2
19.	NOV. 3-NOV. 9	45.	MAY 3-MAY 9
20.	NOV. 10-NOV. 16	46.	MAY 10-MAY 16
21.	NOV. 17-NOV. 23	47.	MAY 17-MAY 23
22.	NOV. 24-NOV. 30	48.	MAY 24-MAY 30
23.	DEC. 1-DEC. 7	49.	MAY 31-JUNE 6
24.	DEC. 8-DEC. 14	50.	JUNE 7-JUNE 13
25.	DEC. 15-DEC. 21	51.	JUNE 14-JUNE 20
26.	DEC. 22-DEC. 28	52.	JUNE 21-JUNE 27
		53.	JUNE 28-JUNE 30

Table 6. Biological sampling information by statistical area, herring section, and location for the 1991-92 season.

Area	Section	Location	Sample						No. of Fish		
			Number	Year	Month	Day	Gear	Source	Pre Sampled	Aged	
2W	1	TASU SOUND	210	92	4	8	29	5	0	100	96
2W	2	PORT CHANAL	211	92	3	31	29	5	0	100	91
2W	2	PORT LOUIS	207	92	3	30	29	5	0	100	90
2W	3	CLONARD BAY	212	92	3	15	29	5	0	100	98
2W	3	CLONARD BAY	202	92	3	20	29	5	0	100	98
2W	3	CLONARD BAY	259	92	3	18	29	0	0	100	93
2W	3	RENNELL SOUND	216	92	3	19	29	5	0	99	95
2W	3	RENNELL SOUND	294	92	3	18	29	0	0	86	72
2W	3	RENNELL SOUND	217	92	3	12	29	5	0	100	97
2W	3	RENNELL SOUND	204	92	3	20	29	5	0	99	90
2W	3	RENNELL SOUND	206	92	3	17	29	5	0	100	97
2W	3	RENNELL SOUND	198	92	3	20	29	5	0	100	94
2W	3	RENNELL SOUND	213	92	4	2	29	5	0	99	91
2W	3	RENNELL SOUND	214	92	3	16	29	5	0	99	94
2W	3	RENNELL SOUND	201	92	3	21	29	5	0	100	97
2W	3	SHIELDS BAY	295	92	3	18	29	0	0	100	89
2W	3	SHIELDS BAY	288	92	3	18	29	0	0	100	92
2W	3	SHIELDS BAY	269	92	3	18	29	0	0	100	94
2W	3	SHIELDS BAY	303	92	3	18	29	0	0	100	93
2W	3	SHIELDS BAY	278	92	3	18	29	0	0	100	92
2W	3	SHIELDS BAY	268	92	3	18	29	0	0	100	95
2W	3	SHIELDS BAY	258	92	3	18	29	0	0	100	91
2W	3	SHIELDS ISLAND	309	92	3	18	29	0	0	73	68
2W	5	INSKIP CHANNEL	225	92	3	23	29	5	0	100	97
2W	6	FLAMINGO INLET	255	92	3	19	29	5	0	100	98
2W	6	LOUSCOONE INLET	310	92	3	16	29	0	0	100	97
2W	6	LOUSCOONE INLET	376	92	3	16	29	0	0	100	92
2W	6	LOUSCOONE INLET	324	92	3	9	29	5	0	100	99
2W	6	LOUSCOONE INLET	299	92	3	16	29	0	0	100	91
2W	6	LOUSCOONE INLET	274	92	3	16	29	0	0	100	91
2W	6	LOUSCOONE INLET	230	92	3	13	29	5	0	100	94
2W	6	LOUSCOONE INLET	275	92	3	16	29	0	0	100	96
2W	6	LOUSCOONE INLET	284	92	3	16	29	0	0	100	95
2W	6	LOUSCOONE INLET	226	92	3	13	29	5	0	100	98
2W	6	LOUSCOONE INLET	172	92	3	19	29	5	0	100	97
2W	6	LOUSCOONE INLET	289	92	3	16	29	0	0	100	97
2W	6	LOUSCOONE INLET	314	92	3	16	29	0	0	100	85
2W	6	LOUSCOONE INLET	263	92	3	16	29	0	0	100	96
2W	6	LOUSCOONE INLET E.	253	92	3	20	29	5	0	100	94
2W	6	LOUSCOONE INLET W.	292	92	3	16	29	0	0	100	94
2W	6	TUGA POINT	179	92	3	15	29	5	0	100	95
2E	21	BURNABY STRAIT	175	92	3	21	29	5	0	100	96
2E	21	HUXLEY ISLAND	197	92	3	8	29	5	0	100	96
2E	21	HUXLEY ISLAND	177	92	3	14	29	5	0	100	98
2E	21	KAT ISLAND	219	92	3	15	29	5	0	100	97
2E	21	NEWBERRY POINT	371	92	3	11	29	5	0	100	97
2E	21	SEDGWICK BAY	20	91	12	11	59	2	0	100	93
2E	21	SEDGWICK BAY	234	92	3	27	29	5	0	100	98
2E	21	SEDGWICK BAY	320	92	3	28	29	5	0	100	93
2E	21	SEDGWICK BAY	193	92	4	2	29	5	0	100	93
2E	21	SKAAT HARBOUR	185	92	3	27	29	5	0	100	95
2E	23	BEATTIE ANCHORAGE	218	92	4	4	29	5	0	100	94
2E	23	CONGLOMERATE POINT	180	92	4	5	29	5	0	100	95
2E	23	CONGLOMERATE POINT	167	92	4	5	29	5	0	100	92
2E	24	DARWIN SOUND	14	91	12	12	59	2	0	19	10
2E	24	LAGOON INLET	221	92	3	23	29	5	0	100	98
2E	24	ROCKFISH HARBOUR	342	92	3	30	29	5	0	100	97
2E	24	SELWYN INLET	181	92	3	22	29	5	0	100	90

Table 6. (Cont'd).

Area	Section	Location	Sample						No. of Fish		
			Number	Year	Month	Day	Gear	Source	Pre Sampled	Aged	
2E	24	TRAYNOR CREEK	174	92	4	4	29	5	0	100	95
2E	25	SKINCUTTLE INLET	336	92	3	9	29	5	0	100	95
3	33	BIRNIE ISLAND	205	92	3	17	29	5	0	100	96
3	33	CUNNINGHAM PASS	186	92	3	15	29	5	0	100	91
3	33	FLEWIN POINT	208	92	3	15	29	5	0	100	97
3	33	PORT SIMPSON	173	92	3	23	29	5	0	100	95
3	33	PORT SIMPSON	293	92	3	26	19	0	0	100	82
3	33	PORT SIMPSON	267	92	3	26	19	0	0	100	88
3	33	PORT SIMPSON	272	92	3	26	19	0	0	95	77
3	33	PORT SIMPSON	182	92	3	16	29	5	0	100	96
3	33	PORT SIMPSON	279	92	3	26	19	0	0	100	78
3	33	PORT SIMPSON	264	92	3	26	19	0	0	100	64
3	33	PORT SIMPSON	291	92	3	26	19	0	0	100	84
3	33	PORT SIMPSON	296	92	3	26	19	0	0	100	79
4	42	BIG BAY	170	92	3	24	29	5	0	100	96
4	42	BIG BAY	196	92	3	30	19	4	0	100	75
4	42	BURNT CLIFF ISLAND	190	92	3	16	29	5	0	100	97
4	42	FORTUNE POINT	164	92	3	23	29	5	0	100	96
4	42	FORTUNE POINT	236	92	3	21	29	5	0	100	98
4	42	FORTUNE POINT	176	92	3	23	29	5	0	100	94
4	42	HODGSON REEF	192	92	3	20	29	5	0	100	95
4	42	HODGSON REEF	227	92	3	21	29	5	0	100	93
4	42	PEARL HARBOUR	168	92	3	26	29	5	0	100	98
4	42	PEARL HARBOUR	265	92	3	26	19	0	0	100	70
4	42	PEARL HARBOUR	312	92	3	26	19	0	0	100	76
4	42	REEKS POINT	276	92	3	26	19	0	0	100	84
4	42	SOUTH ISLAND	191	92	3	15	29	5	0	100	94
4	42	TREE BLUFF	271	92	3	26	19	0	0	100	74
5	51	BROWNING ENTRANCE	11	91	12	6	59	2	0	100	91
5	51	WHITE ROCKS +	1	91	12	7	59	2	0	100	56
5	51	WHITE ROCKS +	19	91	12	7	59	2	0	100	87
5	51	WHITE ROCKS +	16	91	12	7	59	2	0	100	49
5	52	ABSALOM ISLAND	256	92	3	24	29	5	0	100	95
5	52	ABSALOM ISLAND	231	92	3	27	29	5	0	100	94
5	52	ABSALOM ISLAND	163	92	3	29	29	5	0	100	96
5	52	ABSALOM ISLAND	187	92	3	28	29	5	0	100	94
5	52	ABSALOM ISLAND	233	92	3	23	29	5	0	100	100
5	52	GURD ISLAND	327	92	3	25	29	5	0	100	97
5	52	GURD ISLAND	357	92	3	28	29	5	0	100	98
5	52	GURD POINT	235	92	3	30	29	5	0	100	100
5	52	KITKATLA CREEK	302	92	3	30	29	0	0	100	93
5	52	KITKATLA CREEK	270	92	3	30	29	0	0	100	91
5	52	KITKATLA CREEK	281	92	3	30	29	0	0	100	93
5	52	KITKATLA CREEK	313	92	3	30	29	0	0	100	90
5	52	KITKATLA INLET	183	92	3	27	29	5	0	100	88
5	52	KITKATLA INLET	260	92	3	30	29	0	0	100	96
5	52	KITKATLA INLET	359	92	3	26	29	5	0	100	95
5	52	KITKATLA INLET	316	92	3	30	29	0	0	100	93
5	52	KITKATLA INLET	261	92	3	30	29	0	0	100	97
5	52	KITKATLA INLET	290	92	3	30	29	0	0	100	91
5	52	KITKATLA INLET	273	92	3	30	29	0	0	100	91
5	52	KITKATLA INLET	306	92	3	30	29	0	0	100	90
5	52	NESS ISLANDS	249	92	3	21	29	5	0	100	96
5	52	PORCHER PENINSULA	242	92	3	29	29	5	0	100	94
5	52	PORCHER PENINSULA	354	92	3	30	29	5	0	100	96
5	52	ROBERT ISLAND	248	92	3	26	29	5	0	100	95
5	52	ROBERT ISLAND	223	92	3	22	29	5	0	100	90
5	52	ROBERT ISLAND	247	92	3	21	29	5	0	100	94

Table 6. (Cont'd.).

Area	Section	Location	Sample						No. of Fish		
			Number	Year	Month	Day	Gear	Source	Pre	Sampled	Aged
5	52	ROBERT ISLAND	215	92	3	25	29	5	0	100	96
5	52	ROBERT ISLAND	252	92	3	23	29	5	0	100	97
5	52	WILLIS BAY	337	92	3	20	29	5	0	100	97
5	52	WILLIS BAY	250	92	3	22	29	5	0	100	97
5	52	WILLIS	317	92	3	20	29	5	0	100	95
6	67	JAMIESON POINT	254	92	3	16	29	5	0	100	95
6	67	KITASU BAY	238	92	3	12	29	5	0	95	90
6	67	KITASU BAY	189	92	3	12	29	5	0	100	90
6	67	KITASU BAY	228	92	3	11	29	5	0	100	92
6	67	KITASU BAY	373	92	3	7	29	5	0	98	94
6	67	KITASU BAY	154	92	3	27	29	5	0	100	98
6	67	KITASU BAY	194	92	3	12	29	5	0	97	89
6	67	KITASU BAY	240	92	3	8	29	5	0	97	93
6	67	KITASU BAY	188	92	3	4	29	5	0	100	93
6	67	KITASU BAY	155	92	3	16	29	5	0	100	93
6	67	KITASU BAY	199	92	3	13	29	5	0	99	94
6	67	KITASU BAY	178	92	3	11	29	5	0	100	90
6	67	PARSONS ANCHORAGE	246	92	3	15	29	5	0	100	89
6	67	PARSONS ANCHORAGE	166	92	3	14	29	5	0	100	97
6	67	WILBY POINT	203	92	3	14	29	5	0	100	94
6	67	WILBY POINT	184	92	3	17	29	5	0	100	84
6	67	WILBY POINT	241	92	3	8	29	5	0	100	96
6	67	WILBY POINT	232	92	3	15	29	5	0	100	98
6	67	WILBY POINT	229	92	3	17	29	5	0	100	94
7	72	BERRY INLET	169	92	3	18	29	5	0	100	94
7	72	BLAIR INLET	372	92	3	24	19	0	0	100	70
7	72	FOOTE ISLETS	375	92	3	10	29	5	0	100	96
7	72	FOOTE ISLETS	277	92	3	19	29	0	0	100	95
7	72	IVORY ISLAND	286	92	3	24	19	0	0	100	62
7	72	NEEKAS INLET	237	92	3	10	29	5	0	100	95
7	72	NEEKAS INLET	362	92	3	12	29	5	0	100	96
7	72	SHINGLE ROCK	308	92	3	19	29	0	0	100	94
7	72	SPILLER CHANNEL	143	92	3	14	29	5	0	100	95
7	72	SPILLER CHANNEL	305	92	3	19	29	0	0	92	78
7	72	SPILLER CHANNEL	239	92	3	5	29	5	0	100	94
7	72	SPILLER CHANNEL	300	92	3	19	29	0	0	100	97
7	72	SPILLER CHANNEL	144	92	3	14	29	5	0	100	95
7	72	SPILLER CHANNEL	287	92	3	19	29	0	0	100	90
7	72	SPILLER CHANNEL	262	92	3	19	29	0	0	100	90
7	72	SPILLER LAGOON	368	92	3	12	29	5	0	100	97
7	72	SPILLER LAGOON	251	92	3	19	29	5	0	100	94
7	72	WATCH ISLAND	245	92	3	18	29	5	0	100	99
7	74	CREE POINT	110	92	3	17	29	5	0	100	88
7	74	CREE POINT	101	92	3	20	29	5	0	100	98
7	74	DUNDIVAN INLET	222	92	3	9	29	5	0	100	93
7	74	DUNDIVAN INLET	137	92	3	11	29	5	0	100	98
7	74	GALE PASSAGE	298	92	3	24	19	0	0	100	80
7	74	HOUGHTON ISLANDS	224	92	3	22	29	5	0	100	95
7	74	HOUGHTON ISLANDS	104	92	3	19	29	5	0	100	94
7	74	HOUGHTON ISLANDS	105	92	3	22	29	5	0	100	97
7	74	HOUGHTON ISLANDS	374	92	3	24	19	0	0	100	83
7	74	IDOL POINT	301	92	3	19	29	0	0	100	81
7	74	IDOL POINT	282	92	3	19	29	0	0	100	78
7	74	LITTLE THOMPSON BAY	283	92	3	24	19	0	0	100	88
7	74	LITTLE THOMPSON BAY	266	92	3	24	19	0	0	100	83
7	74	POTTS ISLAND	108	92	3	17	29	5	0	100	92
7	74	POTTS ISLAND	200	92	3	6	29	5	0	96	88
7	74	RAYMOND PASS	195	92	3	5	29	5	0	100	92

Table 6. (Cont'd).

Area	Section	Location	Sample						No. of Fish		
			Number	Year	Month	Day	Gear	Source	Pre Sampled	Aged	
7	74	RAYMOND PASS	361	92	3	3	29	5	0	100	97
7	74	RAYMOND PASS	220	92	3	6	29	5	0	100	95
7	74	SEAFORTH CHANNEL	355	92	3	19	29	0	0	100	97
7	74	SEAFORTH CHANNEL	311	92	3	24	19	0	0	100	83
7	74	SEAFORTH CHANNEL	297	92	3	19	29	0	0	100	88
7	74	SEAFORTH CHANNEL	257	92	3	19	29	0	0	100	94
7	74	SEAFORTH CHANNEL	315	92	3	24	19	0	0	100	76
7	74	SEAFORTH CHANNEL	307	92	3	24	19	0	0	100	66
7	74	SEAFORTH CHANNEL	171	92	3	19	29	5	0	100	96
7	74	SEAFORTH CHANNEL	244	92	3	3	29	5	0	100	97
7	74	SEAFORTH CHANNEL	165	92	3	19	29	5	0	100	97
7	74	STRYKER BAY	351	92	3	6	29	5	0	100	90
7	74	THOMPSON BAY	330	92	3	9	29	5	0	100	97
7	74	THOMPSON BAY	141	92	3	9	29	5	0	100	98
7	74	THOMPSON BAY	280	92	3	24	19	0	0	100	89
7	77	EAST HIGGINS PASS	134	92	3	19	29	5	0	100	97
7	77	EAST HIGGINS PASS	333	92	3	17	29	5	0	100	90
7	77	EAST HIGGINS PASS	147	92	3	18	29	5	0	100	97
7	77	EAST HIGGINS PASS	150	92	3	15	29	5	0	100	99
7	77	EAST HIGGINS PASS	156	92	3	20	29	5	0	100	98
7	77	EAST HIGGINS PASS	132	92	3	28	29	5	0	100	97
7	77	EAST HIGGINS PASS	209	92	3	4	29	5	0	100	89
7	77	EAST HIGGINS PASS	149	92	3	20	29	5	0	100	97
7	77	EAST HIGGINS PASS	325	92	3	15	29	5	0	100	95
7	77	EAST HIGGINS PASS	148	92	3	21	29	5	0	100	96
7	77	EAST HIGGINS PASS	145	92	3	17	29	5	0	100	97
7	77	EAST HIGGINS PASS	366	92	3	22	29	5	0	100	93
7	78	JAMES BAY	243	92	3	24	29	5	0	100	84
8	85	KWAKSHUA CHANNEL	162	92	3	7	29	5	0	100	97
8	85	KWAKSHUA CHANNEL	142	92	3	6	29	5	0	90	71
8	85	KWAKSHUA CHANNEL	332	92	3	7	29	5	0	100	94
8	85	KWAKSHUA CHANNEL	136	92	3	7	29	5	0	100	93
8	85	KWAKSHUA CHANNEL	350	92	3	8	29	5	0	100	92
8	85	KWAKUME INLET	152	92	3	21	19	4	0	100	84
8	85	KWAKUME POINT	109	92	3	21	29	5	0	100	95
8	85	KWAKUME POINT	146	92	3	22	19	4	0	100	93
8	85	PRUTH BAY	159	92	3	21	29	5	0	100	91
8	86	WARRIOR COVE	151	92	3	23	19	4	0	100	77
8	86	WARRIOR COVE	135	92	3	22	19	4	0	100	85
10	102	TAKUSH HARBOUR	334	92	3	30	29	5	0	100	0
10	102	WAKAS POINT	106	92	3	25	29	5	0	100	97
14	142	BAYNES SOUND	29	92	3	10	29	5	0	100	95
14	142	CAPE LAZO	138	92	3	14	19	0	0	100	64
14	142	CAPE LAZO	113	92	3	15	19	0	0	100	89
14	142	CAPE LAZO	119	92	3	14	19	0	0	100	77
14	142	COMOX BAR	23	92	3	5	29	5	0	100	92
14	142	COMOX BAR	28	92	3	10	29	5	0	100	92
14	142	COMOX BAR	18	92	3	10	29	5	0	100	89
14	142	GOOSE SPIT	96	92	3	4	29	0	0	100	88
14	142	HENRY BAY	112	92	3	4	29	0	0	100	86
14	142	HENRY BAY	93	92	3	4	29	0	0	100	92
14	142	HENRY BAY	20	92	3	4	29	5	0	100	96
14	142	HENRY BAY	50	92	3	7	29	5	0	100	91
14	142	HENRY BAY	75	92	3	4	29	0	0	100	85
14	142	HENRY BAY	16	92	3	4	29	5	0	100	98
14	142	HENRY BAY	94	92	3	4	29	0	0	100	95
14	142	HORNBY ISLAND	285	92	3	15	19	0	0	100	69
14	142	KOMAS BLUFF	126	92	3	15	19	0	0	100	71
14	142	KOMAS BLUFF	114	92	3	14	19	0	0	100	82

Table 6. (Cont'd.).

Area	Section	Location	Sample Number	Year Month Day Gear Source Pre						No. of Fish Sampled Aged	
14	142	KOMAS BLUFF	128	92	3	14	19	0	0	100	71
14	142	KOMAS BLUFF	125	92	3	14	19	0	0	100	76
14	142	KOMAS BLUFF	131	92	3	14	19	0	0	100	83
14	142	KOMAS BLUFF	129	92	3	15	19	0	0	100	79
14	142	KOMAS BLUFF	140	92	3	14	19	0	0	100	87
14	142	KOMAS BLUFF	48	92	3	7	29	5	0	100	91
14	142	LAMBERT CHANNEL	13	92	3	8	29	5	0	100	94
14	142	LAMBERT CHANNEL	44	92	3	3	29	5	0	100	85
14	142	LAMBERT CHANNEL	41	92	3	12	29	5	0	100	96
14	142	LONGBEAK POINT	121	92	3	15	19	0	0	100	76
14	142	LONGBEAK POINT	77	92	3	4	29	0	0	75	65
14	142	NORRIS ROCKS	11	92	3	12	29	5	0	100	91
14	142	SANDY ISLAND	12	92	3	7	29	5	0	100	92
14	142	SANDY ISLAND	3	92	3	4	29	5	0	100	87
14	142	SANDY ISLAND	22	92	3	5	29	5	0	100	92
14	142	SANDY ISLAND	73	92	3	4	29	0	0	100	93
14	142	SANDY ISLAND	78	92	3	4	29	0	0	100	92
14	142	SANDY ISLAND	85	92	3	4	29	0	0	100	84
14	142	SANDY ISLAND	9	92	3	5	29	5	0	100	93
14	142	SANDY ISLAND	26	92	3	8	29	5	0	100	94
14	142	SANDY ISLAND	46	92	3	10	29	5	0	100	95
14	142	SANDY ISLAND	15	92	3	7	29	5	0	100	95
14	142	SANDY ISLAND	76	92	3	4	29	0	0	100	94
14	142	SANDY ISLAND	24	92	3	5	29	5	0	100	87
14	142	WHALEBONE POINT	124	92	3	15	19	0	0	100	82
14	142	WHALEBONE POINT	130	92	3	15	19	0	0	100	79
14	142	WHITE SPIT	25	92	3	7	29	5	0	100	89
14	142	WILLEMAR BLUFF	304	92	3	15	19	0	0	100	84
14	143	COTTAM POINT	6	92	3	10	29	5	0	100	93
14	143	FRENCH CREEK	14	92	3	16	29	5	0	100	96
14	143	MISTAKEN ISLAND	10	92	3	8	29	5	0	100	84
14	143	MISTAKEN ISLAND	1	92	3	11	29	5	0	100	89
14	143	NORTHWEST BAY	360	92	2	27	29	5	0	100	94
14	143	NUTTAL BAY	5	91	12	10	29	2	0	100	93
15	152	MALASPINA INLET	157	92	2	24	29	5	0	100	94
15	152	POWELL RIVER MILL	346	92	2	28	29	5	0	100	99
15	152	WESTVIEW	153	92	2	24	29	5	0	100	96
15	152	WESTVIEW	158	92	2	23	29	5	0	100	97
17	172	MAUDE ISLAND	4	92	3	6	29	5	0	100	92
17	172	MAUDE ISLAND	323	92	2	24	29	5	0	100	95
17	172	SNAKE ISLAND	10	91	11	20	29	6	0	100	95
17	173	DE COURCY ISLAND	21	92	3	7	29	5	0	100	89
17	173	DE COURCY ISLAND	2	92	3	12	29	5	0	100	94
17	173	DE COURCY ISLAND	36	92	3	17	29	5	0	100	97
17	173	DE COURCY ISLAND	38	92	3	19	29	5	0	100	90
17	173	GABRIOLA ISLAND W.	6	91	12	10	29	2	0	100	94
17	173	HALL ISLAND	37	92	3	18	29	5	0	100	94
17	173	MONTAGUE HARBOUR	339	92	3	1	29	5	0	100	94
17	173	NORTHUMBERLAND CH.	2	91	11	25	29	6	0	100	91
17	173	NORTHUMBERLAND CH.	21	91	11	18	29	6	0	100	82
17	173	NORTHUMBERLAND CH.	8	91	11	19	29	6	0	100	94
17	173	PORLIER PASS	328	92	2	28	29	5	0	100	96
17	173	PYLADES CHANNEL	19	92	3	7	29	5	0	100	94
17	173	PYLADES CHANNEL	30	92	3	9	29	5	0	100	84
17	173	PYLADES CHANNEL	160	92	2	25	29	5	0	100	96
17	173	STUART CHANNEL	353	92	2	26	29	5	0	100	89
17	173	STUART CHANNEL	17	92	3	9	29	5	0	100	93

Table 6. (Cont'd).

Area	Section	Location	Sample						No. of Fish		
			Number	Year	Month	Day	Gear	Source	Pre Sampled	Aged	
17	173	STUART CHANNEL	47	92	3	10	29	5	0	100	89
17	173	TRINCOMALI CHANNEL	18	91	11	12	29	6	0	100	92
17	173	TRINCOMALI CHANNEL	161	92	2	25	29	5	0	100	89
21	219	SWIFTSURE BANK	3	91	8	4	59	3	0	100	85
21	219	SWIFTSURE BANK	24	91	8	4	59	3	0	100	89
23	232	BRYANT ISLANDS	33	92	2	24	29	5	0	100	94
23	232	CAPSTAN ISLAND	40	92	2	27	29	5	0	100	0
23	232	CAPSTAN ISLAND	348	92	3	1	29	5	0	100	96
23	232	CAPSTAN ISLAND	45	92	3	3	29	5	0	100	88
23	232	CASTLE ISLET	8	92	3	8	29	5	0	83	78
23	232	CHROW ISLANDS	5	92	3	13	29	5	0	100	93
23	232	CHROW ISLANDS	367	92	2	27	29	5	0	100	87
23	232	DAVID ISLAND	88	92	3	8	29	0	0	100	91
23	232	DAVID ISLAND	74	92	3	7	29	0	0	100	65
23	232	DAVID ISLAND	79	92	3	6	29	0	0	100	87
23	232	DAVID ISLAND	90	92	3	6	29	0	0	100	87
23	232	DAVID ISLAND	87	92	3	8	29	0	0	100	84
23	232	FOOD ISLETS	127	92	3	8	19	0	0	100	83
23	232	FOOD ISLETS	89	92	3	8	19	0	0	100	72
23	232	FOOD ISLETS	53	92	3	17	29	5	0	100	94
23	232	FOOD ISLETS	319	92	3	3	29	5	0	100	94
23	232	FORBES ISLAND	81	92	3	8	29	0	0	100	71
23	232	FORBES ISLAND	82	92	3	8	19	0	0	100	86
23	232	FORBES ISLAND	7	92	3	12	29	5	0	96	90
23	232	FORBES ISLAND	83	92	3	8	19	0	0	100	81
23	232	FORBES ISLAND	34	92	2	20	29	5	0	100	88
23	232	FORBES ISLAND	356	92	3	10	29	5	0	92	88
23	232	FORBES ISLAND	80	92	3	8	19	0	0	100	84
23	232	FORBES ISLAND	321	92	2	25	29	5	0	100	92
23	232	FORBES ISLAND	322	92	2	26	29	5	0	99	95
23	232	HAND ISLAND	352	92	2	28	29	5	0	100	95
23	232	LARKIN ISLAND	43	92	3	4	29	5	0	100	98
23	232	LARKIN ISLAND	42	92	3	3	29	5	0	100	94
23	232	LYALL POINT	100	92	3	6	29	0	0	100	80
23	232	LYALL POINT	98	92	3	7	29	0	0	100	89
23	232	MACOAH PASSAGE	97	92	3	8	19	0	0	100	76
23	232	MACOAH PASSAGE	92	92	3	8	19	0	0	100	74
23	232	MACOAH PASSAGE	347	92	3	5	29	5	0	100	93
23	232	MACOAH PASSAGE	365	92	3	5	29	5	0	100	96
23	232	MACOAH PASSAGE	338	92	3	7	29	5	0	100	100
23	232	MACOAH PASSAGE	329	92	3	6	29	5	0	100	89
23	232	NEWCOMBE CHANNEL	335	92	3	2	29	5	0	87	79
23	232	OTTAWAY ISLET	86	92	3	7	29	0	0	100	93
23	232	OTTAWAY ISLET	99	92	3	7	29	0	0	100	84
23	232	OTTAWAY ISLET	31	92	3	4	29	5	0	100	95
23	232	OTTAWAY ISLET	133	92	3	6	29	0	0	100	73
23	232	OTTAWAY ISLET	91	92	3	6	29	0	0	100	76
23	232	OTTAWAY ISLET	72	92	3	6	29	0	0	100	85
23	232	ROWLANDS ISLET	358	92	3	3	29	5	0	100	95
23	232	SPILLING ISLET	95	92	3	6	29	0	0	100	88
23	232	SPILLING ISLET	326	92	3	6	29	5	0	100	94
23	232	ST. INES ISLAND	71	92	3	8	29	0	0	100	92
23	232	STOPPER ISLANDS	32	92	3	1	29	5	0	100	95
23	232	STOPPER ISLANDS	57	92	3	10	29	5	0	100	97
23	232	STOPPER ISLANDS	59	92	3	4	29	5	0	100	93
23	232	STOPPER ISLANDS	370	92	3	6	29	5	0	100	96
23	232	STOPPER ISLANDS	69	92	3	11	29	5	0	100	93
23	232	STOPPER ISLANDS	84	92	3	8	29	0	0	100	94

Table 6. (Cont'd).

Area	Section	Location	Sample						No. of Fish		
			Number	Year	Month	Day	Gear	Source	Pre	Sampled	Aged
23	232	TOQUART BAY	39	92	3	5	29	5	0	100	92
23	233	SWALE ROCK	344	92	2	28	29	5	0	100	93
23	233	SWALE ROCK	345	92	2	29	29	5	0	94	87
23	239	BOTTLENECK +	4	91	8	1	59	3	0	100	33
23	239	FINGER BANK +	369	92	4	9	59	3	0	100	87
23	239	FIRING RANGE	17	91	8	3	59	3	0	100	74
23	239	FORTY MILE BANK	9	91	8	3	59	3	0	100	85
23	239	FORTY MILE BANK	22	91	8	2	59	3	0	100	88
23	239	FORTY MILE BANK	12	91	8	3	59	3	0	100	84
23	239	LA PEROUSE BANK	378	92	5	15	50	3	0	100	66
23	239	LA PEROUSE BANK	379	92	5	26	50	3	0	100	0
23	239	LA PEROUSE BANK	377	92	5	13	50	3	0	100	35
24	242	HESQUIAT HARBOUR	27	92	2	27	29	5	0	86	79
24	242	HESQUIAT HARBOUR	349	92	2	27	29	5	0	44	40
24	243	STARLING POINT	35	92	2	22	29	5	0	89	85
24	243	SYDNEY INLET	341	92	2	28	29	5	0	91	88
24	243	SYDNEY INLET	318	92	2	22	29	5	0	99	99
24	243	SYDNEY INLET	49	92	2	29	29	5	0	100	98
24	244	BAWDEN BAY	54	92	3	14	29	5	0	100	96
24	244	MATILDA INLET	103	92	3	14	1	4	0	73	68
24	244	MATILDA INLET	102	92	3	14	1	4	0	82	80
24	244	MATILDA INLET	58	92	3	16	29	5	0	66	63
24	245	DUNLAP ISLAND	107	92	3	18	29	5	0	97	91
24	245	MAURUS CHANNEL	61	92	3	17	29	5	0	92	87
25	252	FRIENDLY COVE	331	92	3	15	29	5	0	100	94
25	252	FRIENDLY COVE	56	92	3	9	29	5	0	100	95
25	252	MARVINAS BAY/IS.	51	92	3	2	29	5	0	100	95
25	252	SAAVEDRA ISLANDS	63	92	2	27	29	5	0	100	98
25	253	CENTRE ISLAND	343	92	2	29	29	4	0	100	96
25	253	DOUBLE ISLAND	70	92	2	26	29	5	0	100	98
25	253	ROSA HARBOUR	67	92	2	27	29	5	0	100	96
25	253	ROSA HARBOUR	64	92	3	21	29	5	0	100	98
25	253	ROSA ISLAND	55	92	3	1	29	5	0	100	99
25	253	ROSA ISLAND	62	92	3	4	29	5	0	100	97
26	261	AMAI (DEEP) INLET	117	92	3	1	29	5	0	100	94
26	263	NASPARTI INLET	52	92	3	14	29	5	0	100	97
27	272	KLASKINO INLET	66	92	3	15	29	5	0	100	99
27	272	KLASKISH INLET	364	92	3	4	29	5	0	95	87
27	272	KLASKISH INLET	363	92	3	4	29	5	0	100	92
27	272	KLASKISH INLET	120	92	3	4	29	5	0	100	89
27	272	KLASKISH INLET	340	92	3	4	29	5	0	100	92
27	272	KLASKISH INLET	115	92	2	28	29	5	0	100	96
27	272	KLASKISH INLET	111	92	3	3	29	5	0	100	94
27	272	MCDOUGAL ISLAND	122	92	3	2	29	5	0	100	98
27	272	MCDOUGAL ISLAND	116	92	3	5	29	5	0	100	97
27	273	FORWARD INLET	65	92	3	12	29	5	0	100	98
27	273	FORWARD INLET	68	92	3	12	29	5	0	100	97
27	273	HUNT ISLETS	139	92	3	3	29	5	0	100	96
27	273	HUNT ISLETS	123	92	2	26	29	5	0	100	89
27	273	HUNT ISLETS	118	92	3	2	29	5	0	100	92
27	273	HUNT ISLETS	60	92	3	13	29	5	0	100	94
29	291	THRASHER ROCK	7	91	11	29	29	6	0	100	57
29	291	THRASHER ROCK	23	91	12	2	29	6	0	100	97
29	291	THRASHER ROCK	15	91	11	27	29	6	0	100	95
29	291	THRASHER ROCK	13	91	12	4	29	6	0	100	8

Table 7. Trawl research sample summaries by section

SECTION: 21 - JUAN PEREZ SOUND  
SAMPLE NUMBERS: 20  
SOURCE: RESEARCH - INSHORE  
GEAR: HERRING TRAWL  
DATE: DEC 11/91

SPECIMENS AT EACH AGE:

AGE

	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	1	51	9	2	14	11	3	2	0	7	100
% AT AGE	0.00	1.08	54.84	9.68	2.15	15.05	11.83	3.23	2.15	0.00	0.00	100.00
LENGTH - MEAN (mm)	0.00	146.00	185.45	192.78	217.50	212.21	220.36	220.67	223.00	0.00	187.57	195.90
- STD. DEV.	0.00	0.00	9.18	9.12	3.54	7.09	10.57	19.43	2.83	0.00	15.99	18.02
WEIGHT - MEAN (gm)	0.00	42.00	94.67	106.89	146.00	139.14	169.27	162.33	164.50	0.00	100.14	114.51
- STD. DEV.	0.00	0.00	15.19	11.76	5.66	16.21	25.14	50.14	19.09	0.00	27.36	34.07

#### HJORT Maturity Stages:

**MATURITY STAGE**

	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	38	50	11	0	0	0	0
% AT STAGE	0.00	1.00	38.00	50.00	11.00	0.00	0.00	0.00	0.00

**ROE MATURITY (FEMALE):**

### SEX RATIO:

	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	48	0	0	48	NO.	51	48	1	100
%	100.00	0.00	0.00	100.00	%	51.00	48.00	1.00	100.00
% SAMPLE WEIGHT	7.62	0.00	0.00	7.62	MEAN WEIGHT	116.10	114.33	42.00	114.51
					* SAMP WT	51.71	47.93	0.37	100.00

Table 7 (cont'd). Trawl research sample summaries by section

SECTION: 24 - LASKEEK BAY  
 SAMPLE NUMBERS: 14  
 SOURCE: RESEARCH - INSHORE  
 GEAR: HERRING TRAWL  
 DATE: DEC 12/91

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	3	2	0	0	1	2	1	1	9	19
% AT AGE	0.00	0.00	30.00	20.00	0.00	0.00	10.00	20.00	10.00	10.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	179.00	198.00	0.00	0.00	231.00	220.50	224.00	234.00	185.00	196.21
- STD. DEV.	0.00	0.00	8.54	1.41	0.00	0.00	0.00	0.71	0.00	0.00	48.10	37.47
WEIGHT - MEAN(gm)	0.00	0.00	84.33	107.00	0.00	0.00	198.00	162.50	148.00	153.00	96.67	113.74
- STD. DEV.	0.00	0.00	14.36	12.73	0.00	0.00	0.00	26.16	0.00	0.00	53.87	49.64

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	1	12	3	1	0	0	0	0	
% AT STAGE	10.53	5.26	63.16	15.79	5.26	0.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL	SEX RATIO:				
					NO.	MALE	FEMALE	IMMATURE	TOTAL
NO.	11	0	0	11					
%	100.00	0.00	0.00	100.00					
% SAMPLE WEIGHT	5.66	0.00	0.00	5.66					
					NO.	6	11	2	19
					%	31.58	57.89	10.53	100.00
					MEAN WEIGHT	125.50	125.36	14.50	113.74
					% SAMP. WT.	34.84	63.81	1.34	100.00

Table 7 (cont'd). Trawl research sample summaries by section

SECTION: 51 - OTHER AREA 5  
 SAMPLE NUMBERS: 11, 19, 16, 1  
 SOURCE: RESEARCH - INSHORE  
 GEAR: HERRING TRAWL  
 DATE: DEC 6/91 - DEC 7/91

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	35	62	63	26	53	19	13	4	8	117	400
% AT AGE	0.00	12.37	21.91	22.26	9.19	18.73	6.71	4.59	1.41	2.83	0.00	100.00
LENGTH - MEAN(mm)	0.00	149.57	170.55	190.11	206.15	212.23	213.74	224.85	220.25	244.25	181.88	188.73
- STD. DEV.	0.00	6.24	10.77	11.42	13.33	9.11	8.63	6.39	9.50	8.40	22.52	25.58
WEIGHT - MEAN(gm)	0.00	43.23	71.15	103.33	135.19	143.58	148.58	162.85	157.00	228.38	91.52	104.15
- STD. DEV.	0.00	5.45	16.61	20.21	25.81	18.31	15.72	14.69	18.57	19.15	37.74	44.60

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	15	43	135	205	2	0	0	0	0	
% AT STAGE	3.75	10.75	33.75	51.25	0.50	0.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	190	0	0	190		NO.		178	190	32	400
%	100.00	0.00	0.00	100.00		%		44.50	47.50	8.00	100.00
% SAMPLE WEIGHT	5.20	0.00	0.00	5.20		MEAN WEIGHT		103.77	114.94	42.25	104.15
						% SAMP. WT.		44.34	52.42	3.25	100.00

Table 7 (cont'd). Trawl research sample summaries by section

SECTION: 219 - OFFSHORE AREA 21

SAMPLE NUMBERS: 3, 24

SOURCE: RESEARCH - OFFSHORE

GEAR: HERRING TRAWL

DATE: AUG 4/91

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	31	54	48	13	20	8	0	0	26	200
% AT AGE	0.00	0.00	17.82	31.03	27.59	7.47	11.49	4.60	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	175.42	192.87	206.10	210.23	222.55	225.88	0.00	0.00	207.62	200.68
- STD. DEV.	0.00	0.00	8.17	12.87	10.84	13.40	6.13	11.75	0.00	0.00	18.20	18.75
WEIGHT - MEAN(gm)	0.00	0.00	82.32	108.31	134.79	143.69	166.70	174.88	0.00	0.00	139.81	125.54
- STD. DEV.	0.00	0.00	13.63	21.83	15.48	24.36	19.29	24.63	0.00	0.00	36.93	34.41

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## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	9	117	73	0	0	0	0	0	1	
% AT STAGE	4.50	58.50	36.50	0.00	0.00	0.00	0.00	0.00	0.50	

## ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	MEAN WEIGHT	% SAMP. WT.				
NO.	98	0	0	98					69	98	33	200
%	100.00	0.00	0.00	100.00					34.50	49.00	16.50	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00								

NO.	69	98	33	200
%	34.50	49.00	16.50	100.00
MEAN WEIGHT	137.62	129.03	89.88	125.54
% SAMP. WT.	37.82	50.36	11.81	100.00

Table 7 (cont'd). Trawl research sample summaries by section

SECTION: 239 - OFFSHORE AREA 23  
 SAMPLE NUMBERS: 9, 12, 369, 4, 17, 22  
 SOURCE: RESEARCH - OFFSHORE  
 GEAR: HERRING TRAWL  
 DATE: AUG 1/91 - APR 9/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	69	268	52	36	6	13	3	3	1	149	600
% AT AGE	0.00	15.30	59.42	11.53	7.98	1.33	2.88	0.67	0.67	0.22	0.00	100.00
LENGTH - MEAN(mm)	0.00	138.88	173.38	195.94	211.00	218.67	220.15	227.67	231.33	232.00	152.13	170.47
- STD. DEV.	0.00	12.53	13.56	11.17	8.74	10.09	9.23	6.35	12.70	0.00	24.32	27.20
WEIGHT - MEAN(gm)	0.00	36.52	70.66	98.56	118.53	129.50	136.85	140.00	168.33	157.00	51.11	70.17
- STD. DEV.	0.00	10.55	15.69	14.28	13.10	13.17	17.42	12.12	15.01	0.00	26.64	31.34

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	95	362	52	0	2	0	50	37	2	
% AT STAGE	15.83	60.33	8.67	0.00	0.33	0.00	8.33	6.17	0.33	

## ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
	NO.	%	%	%		NO.	%	NO.	%	%	%
NO.	192	2	48	242		NO.		164	242	194	600
%	79.34	0.83	19.83	100.00		%		27.33	40.33	32.33	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00		MEAN WEIGHT		88.57	78.55	44.17	70.17
						% SAMP. WT.		34.50	45.15	20.35	100.00

Table 8. Seine research sample summaries by section.

SECTION: 143 - QUALICUM

SAMPLE NUMBERS: 5

SOURCE: RESEARCH - INSHORE

GEAR: HERRING SEINE

DATE: DEC 10/91

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	3	74	14	2	0	0	0	0	0	7	100
% AT AGE	0.00	3.23	79.57	15.05	2.15	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.00	190.69	195.07	194.50	0.00	0.00	0.00	0.00	0.00	195.71	190.57
- STD. DEV.	0.00	18.03	9.92	9.79	2.12	0.00	0.00	0.00	0.00	0.00	11.95	12.27
WEIGHT - MEAN(gm)	0.00	47.33	96.15	108.29	103.00	0.00	0.00	0.00	0.00	0.00	101.43	96.89
- STD. DEV.	0.00	17.56	15.28	15.61	9.90	0.00	0.00	0.00	0.00	0.00	17.78	18.05

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	2	28	65	4	0	0	0	0	
% AT STAGE	1.00	2.00	28.00	65.00	4.00	0.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	44	0	0	44					
%	100.00	0.00	0.00	100.00					
% SAMPLE WEIGHT	6.98	0.00	0.00	6.98					
					NO.	54	44	2	100
					%	54.00	44.00	2.00	100.00
					MEAN WEIGHT	96.54	99.61	46.50	96.89
					% SAMP. WT.	53.80	45.24	0.96	100.00

Table 8 (cont'd). Seine research sample summaries by section

SECTION: 173 - YELLOW POINT  
 SAMPLE NUMBERS: 6  
 SOURCE: RESEARCH - INSHORE  
 GEAR: HERRING SEINE  
 DATE: DEC 10/91

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	3	52	20	11	4	2	2	0	0	6	100
% AT AGE	0.00	3.19	55.32	21.28	11.70	4.26	2.13	2.13	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.33	185.19	195.45	206.45	212.50	204.50	214.00	0.00	0.00	191.67	191.46
- STD. DEV.	0.00	1.15	8.52	10.40	9.44	9.68	0.71	19.80	0.00	0.00	9.24	13.34
WEIGHT - MEAN(gm)	0.00	68.33	99.29	119.80	145.73	171.25	143.00	157.50	0.00	0.00	116.00	113.49
- STD. DEV.	0.00	4.93	14.75	18.81	20.63	22.26	5.66	53.03	0.00	0.00	23.21	27.89

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	10	83	7	0	0	0	0	
% AT STAGE	0.00	0.00	10.00	83.00	7.00	0.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
	NO.	%	%	%		NO.	%	NO.	%	NO.	%
NO.	57	0	0	57		NO.	43	57	0	100	
%	100.00	0.00	0.00	100.00		%	43.00	57.00	0.00	100.00	
% SAMPLE WEIGHT	8.85	0.00	0.00	8.85		MEAN WEIGHT	108.07	117.58	0.00	113.49	
						% SAMP. WT.	40.95	59.05	0.00	100.00	

Table 9. Food fishery sample summaries by section.

SECTION: 172 - NANOSE BAY

SAMPLE NUMBERS: 10

SOURCE: FOOD FISHERY

GEAR: HERRING SEINE

DATE: NOV 20/91

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	2	73	14	6	0	0	0	0	0	5	100
% AT AGE	0.00	2.11	76.84	14.74	6.32	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	149.50	183.84	193.86	199.17	0.00	0.00	0.00	0.00	0.00	175.20	185.04
- STD. DEV.	0.00	3.54	10.07	6.63	11.53	0.00	0.00	0.00	0.00	0.00	16.47	12.33
WEIGHT - MEAN(gm)	0.00	50.00	98.66	120.29	131.83	0.00	0.00	0.00	0.00	0.00	89.20	102.23
- STD. DEV.	0.00	5.66	16.14	14.99	28.18	0.00	0.00	0.00	0.00	0.00	21.43	21.22

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	2	49	49	0	0	0	0	0	
% AT STAGE	0.00	2.00	49.00	49.00	0.00	0.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	50	0	0	50					
%	100.00	0.00	0.00	100.00					
% SAMPLE WEIGHT	5.78	0.00	0.00	5.78					
					NO.	50	50	0	100
					%	50.00	50.00	0.00	100.00
					MEAN WEIGHT	101.34	103.12	0.00	102.23
					% SAMP. WT.	49.56	50.44	0.00	100.00

Table 9 (cont'd). Food fishery sample summaries by section

SECTION: 173 - YELLOW POINT  
 SAMPLE NUMBERS: 21, 8, 2, 18  
 SOURCE: FOOD FISHERY  
 GEAR: HERRING SEINE  
 DATE: NOV 12/91 - NOV 25/91

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	16	242	60	35	3	1	1	0	0	40	398
% AT AGE	0.00	4.47	67.60	16.76	9.78	0.84	0.28	0.28	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.44	184.58	195.62	205.03	215.33	227.00	223.00	0.00	0.00	184.07	187.62
- STD. DEV.	0.00	8.60	11.21	10.58	9.50	2.52	0.00	0.00	0.00	0.00	20.55	14.92
WEIGHT - MEAN(gm)	0.00	66.25	94.46	118.47	139.91	157.00	184.00	176.00	0.00	0.00	99.63	102.36
- STD. DEV.	0.00	13.70	18.03	21.11	22.29	22.61	0.00	0.00	0.00	0.00	36.01	27.40

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	10	146	238	3	0	0	0	0	
% AT STAGE	0.25	2.51	36.68	59.80	0.75	0.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	212	0	0	212		NO.		183	212	3	398
%	100.00	0.00	0.00	100.00		%		45.98	53.27	0.75	100.00
% SAMPLE WEIGHT	5.49	0.00	0.00	5.49		MEAN WEIGHT		102.42	102.84	64.67	102.36
						% SAMP. WT.		46.01	53.52	0.48	100.00

Table 9 (cont'd). Food fishery sample summaries by section

SECTION: 291 - OTHER AREA 29  
 SAMPLE NUMBERS: 23, 7, 15, 13  
 SOURCE: FOOD FISHERY  
 GEAR: HERRING SEINE  
 DATE: NOV 27/91 - DEC 4/91

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	13	210	18	15	1	0	0	0	0	143	400
% AT AGE	0.00	5.06	81.71	7.00	5.84	0.39	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.46	186.17	195.67	205.07	201.00	0.00	0.00	0.00	0.00	185.81	186.35
- STD. DEV.	0.00	11.05	11.23	10.23	9.34	0.00	0.00	0.00	0.00	0.00	15.10	14.13
WEIGHT - MEAN(gm)	0.00	61.23	97.07	116.00	133.60	136.00	0.00	0.00	0.00	0.00	97.85	98.50
- STD. DEV.	0.00	12.87	19.13	19.96	19.08	0.00	0.00	0.00	0.00	0.00	26.03	24.03

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	9	121	264	4	0	0	0	0	
% AT STAGE	0.50	2.25	30.25	66.00	1.00	0.00	0.00	0.00	0.00	

## ROE MATURITY (FEMALE):

	SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	193	0	0	193					
%	100.00	0.00	0.00	100.00					
% SAMPLE WEIGHT	7.07	0.00	0.00	7.07					
					NO.	204	193	3	400
					%	51.00	48.25	0.75	100.00
					MEAN WEIGHT	94.90	103.05	51.67	98.50
					% SAMP. WT.	49.13	50.47	0.39	100.00

Table 10. Seine roe fishery sample summaries by section.

SECTION: 3 - RENNELL SOUND  
 SAMPLE NUMBERS: 258,288,278,259,268,294,309,269,303,295  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 18/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	12	57	110	11	14	547	118	4	6	80	959
% AT AGE	0.00	1.37	6.48	12.51	1.25	1.59	62.23	13.42	0.46	0.68	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.08	195.91	206.61	219.09	228.57	232.26	237.16	236.00	249.33	216.19	225.57
- STD. DEV.	0.00	7.87	7.92	10.23	8.75	11.08	9.04	7.53	19.65	16.77	20.32	17.14
WEIGHT - MEAN(gm)	0.00	73.17	116.37	137.28	156.91	189.14	200.26	214.66	219.75	239.33	166.04	185.04
- STD. DEV.	0.00	8.74	15.04	22.71	25.11	37.98	25.99	24.00	47.95	29.19	48.86	42.02

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	2	0	2	659	293	2	0	0	
% AT STAGE	0.10	0.21	0.00	0.21	68.72	30.55	0.21	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	2	479	0	481		NO.		474	481	4	959
%	0.42	99.58	0.00	100.00		%		49.43	50.16	0.42	100.00
% SAMPLE WEIGHT	0.11	30.59	0.00	30.70		MEAN WEIGHT		173.45	196.24	212.50	185.04
						% SAMP. WT.		46.33	53.19	0.48	100.00

Table 10 (cont'd). Seine roe fishery sample summaries by section

SECTION: 6 - LOUSCOONE INLET  
 SAMPLE NUMBERS: 376,289,292,275,299,284,314,263,310,274  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 16/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	2	260	39	89	45	475	15	2	7	66	1000
% AT AGE	0.00	0.21	27.84	4.18	9.53	4.82	50.86	1.61	0.21	0.75	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.00	193.03	206.62	216.25	219.98	225.00	231.47	226.00	243.29	213.38	214.30
- STD. DEV.	0.00	14.14	7.86	7.74	8.10	9.61	8.82	7.71	5.66	8.98	18.37	16.74
WEIGHT - MEAN(gm)	0.00	62.00	105.86	133.18	157.70	161.82	178.38	194.07	204.50	207.57	151.53	153.66
- STD. DEV.	0.00	21.21	15.29	19.14	23.34	27.46	23.91	21.63	12.02	26.86	41.27	39.02

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	0	0	1	696	300	1	0	1	
% AT STAGE	0.10	0.00	0.00	0.10	69.60	30.00	0.10	0.00	0.10	

## ROE MATURITY (FEMALE):

					SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%				
NO.	1	553	1	555			445	555	0	1000
%	0.18	99.64	0.18	100.00			44.50	55.50	0.00	100.00
% SAMPLE WEIGHT	0.00	29.60	0.00	29.60			144.10	161.33	0.00	153.66
					MEAN WEIGHT					
					% SAMP. WT.		41.73	58.27	0.00	100.00

Table 10 (cont'd). Seine roe fishery sample summaries by section

SECTION: 52 - KITKATLA INLET  
 SAMPLE NUMBERS: 261,313,316,281,270,302,306,273,290,260  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 30/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	369	268	64	58	106	40	10	9	75	999
% AT AGE	0.00	0.00	39.94	29.00	6.93	6.28	11.47	4.33	1.08	0.97	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	180.83	190.75	208.11	211.41	216.27	219.93	225.00	232.11	192.41	194.11
- STD. DEV.	0.00	0.00	10.13	9.45	8.62	9.17	9.41	9.05	8.39	9.83	18.68	17.64
WEIGHT - MEAN(gm)	0.00	0.00	81.19	97.94	127.86	137.84	145.43	149.80	169.40	183.22	100.77	104.80
- STD. DEV.	0.00	0.00	15.41	16.87	18.01	22.61	22.61	22.16	23.86	18.02	32.78	32.33

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	2	571	418	8	0	0	
% AT STAGE	0.00	0.00	0.00	0.20	57.16	41.84	0.80	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	1	441	0	442		NO.		557	442	0	999
%	0.23	99.77	0.00	100.00		%		55.76	44.24	0.00	100.00
% SAMPLE WEIGHT	0.08	28.21	0.00	28.29		MEAN WEIGHT		99.11	111.97	0.00	104.80
						% SAMP. WT.		52.73	47.27	0.00	100.00

Table 10 (cont'd). Seine roe fishery sample summaries by section

SECTION: 72 - POWELL ANCHORAGE  
 SAMPLE NUMBERS: 300,287,277,305,308,262  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 19/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	6	356	52	8	15	91	6	6	3	48	591
% AT AGE	0.00	1.10	65.56	9.58	1.47	2.76	16.76	1.10	1.10	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.17	176.78	189.42	204.63	207.80	213.43	222.83	222.50	231.67	181.88	186.11
- STD. DEV.	0.00	8.33	11.85	9.48	9.74	11.24	12.47	4.45	15.73	11.06	17.17	19.52
WEIGHT - MEAN(gm)	0.00	52.67	83.94	102.65	132.63	138.80	155.82	176.67	174.33	191.00	95.02	101.69
- STD. DEV.	0.00	10.37	19.41	20.46	23.92	23.93	32.73	29.75	24.93	27.84	37.32	37.99

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	0	0	5	377	181	26	0	0	
% AT STAGE	0.34	0.00	0.00	0.85	63.79	30.63	4.40	0.00	0.00	

## ROE MATURITY (FEMALE):

					SEX RATIO:		
	IMMATURE	MATURE	SPENT	TOTAL			
NO.	3	246	3	252	NO.	336	591
%	1.19	97.62	1.19	100.00	%	56.85	100.00
% SAMPLE WEIGHT	0.17	28.46	0.01	28.64	MEAN WEIGHT	93.47	101.69
					% SAMP. WT.	52.26	47.30
						0.44	100.00

Table 10 (cont'd). Seine roe fishery sample summaries by section

SECTION: 74 - THOMPSON BAY  
 SAMPLE NUMBERS: 257,297,301,282,355  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 19/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	244	51	14	11	99	14	1	4	62	500
% AT AGE	0.00	0.00	55.71	11.64	3.20	2.51	22.60	3.20	0.23	0.91	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	178.84	192.98	198.00	205.82	210.97	212.93	235.00	228.75	182.98	189.76
- STD. DEV.	0.00	0.00	9.94	11.07	13.96	12.38	9.68	13.09	0.00	7.93	21.08	18.42
WEIGHT - MEAN(gm)	0.00	0.00	90.41	116.14	131.14	144.82	156.37	157.21	227.00	211.00	102.29	113.01
- STD. DEV.	0.00	0.00	17.55	21.57	27.26	29.48	29.70	35.22	0.00	10.61	41.26	38.41

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	1	2	331	153	13	0	0	
% AT STAGE	0.00	0.00	0.20	0.40	66.20	30.60	2.60	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:					
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	2	236	1	239		NO.	258	239	3	500
%	0.84	98.74	0.42	100.00		%	51.60	47.80	0.60	100.00
% SAMPLE WEIGHT	0.13	29.21	0.00	29.35		MEAN WEIGHT	105.07	121.85	92.00	113.01
						% SAMP. WT.	47.97	51.54	0.49	100.00

Table 10 (cont'd). Seine roe fishery sample summaries by section

SECTION: 142 - BAYNES SOUND  
 SAMPLE NUMBERS: 73, 94, 85, 93, 112, 76, 75, 96, 77, 78  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 4/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	9	472	147	147	47	41	5	6	0	101	975
% AT AGE	0.00	1.03	54.00	16.82	16.82	5.38	4.69	0.57	0.69	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.89	189.43	198.61	206.34	214.91	220.39	227.20	220.67	0.00	192.99	196.41
- STD. DEV.	0.00	12.17	9.81	11.78	10.11	10.32	8.99	10.78	7.94	0.00	15.82	14.78
WEIGHT - MEAN(gm)	0.00	60.44	95.90	113.93	132.58	152.45	164.07	171.40	168.17	0.00	103.79	111.06
- STD. DEV.	0.00	12.24	17.09	21.71	25.61	25.79	24.82	23.56	18.56	0.00	28.52	30.12

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	2	1	30	628	314	0	0	0	
% AT STAGE	0.00	0.21	0.10	3.08	64.41	32.21	0.00	0.00	0.00	

## ROE MATURITY (FEMALE):

	SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	24	457	0	481	NO.	492	481	2	975
%	4.99	95.01	0.00	100.00	%	50.46	49.33	0.21	100.00
% SAMPLE WEIGHT	0.86	26.59	0.00	27.45	MEAN WEIGHT	106.87	115.62	48.00	111.06
					% SAMP. WT.	48.56	51.36	0.09	100.00

Table 10 (cont'd). Seine roe fishery sample summaries by section

SECTION: 232 - MACOAH PASS  
 SAMPLE NUMBERS: 79, 71, 87, 88, 133, 74, 86, 95, 99, 98,  
 90, 81, 72, 84, 91, 100  
 SOURCE: ROE FISHERY  
 GEAR: HERRING SEINE  
 DATE: MAR 6/92 - MAR 8/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	19	571	137	207	90	264	35	13	1	261	1598
% AT AGE	0.00	1.42	42.71	10.25	15.48	6.73	19.75	2.62	0.97	0.07	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.05	187.42	202.37	211.94	218.73	224.92	229.94	233.08	235.00	195.07	202.20
- STD. DEV.	0.00	7.54	10.26	9.30	8.26	9.21	8.10	9.70	4.84	0.00	19.56	19.29
WEIGHT - MEAN(gm)	0.00	70.05	97.12	123.15	146.71	158.91	174.05	182.77	191.77	207.00	115.03	127.28
- STD. DEV.	0.00	13.29	18.54	21.26	20.82	27.28	24.99	28.38	23.31	0.00	39.18	39.97

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	2	37	970	451	137	1	0	
% AT STAGE	0.00	0.00	0.13	2.32	60.70	28.22	8.57	0.06	0.00	

## ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
	NO.	%	%	%		NO.	%	NO.	%	NO.	%
NO.	13	700	24	737		NO.		860	737	1	1598
%	1.76	94.98	3.26	100.00		%		53.82	46.12	0.06	100.00
% SAMPLE WEIGHT	0.32	28.56	0.04	28.92		MEAN WEIGHT		116.70	139.62	136.00	127.28
						% SAMP. WT.		49.34	50.59	0.07	100.00

Table 11. Gillnet roe fishery sample summaries by section.

SECTION: 33 - PORT SIMPSON  
 SAMPLE NUMBERS: 272,264,279,291,293,267,296  
 SOURCE: ROE FISHERY  
 GEAR: GILLNET  
 DATE: MAR 26/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	3	40	46	128	151	116	31	37	143	695
% AT AGE	0.00	0.00	0.54	7.25	8.33	23.19	27.36	21.01	5.62	6.70	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	202.67	204.32	210.65	214.30	217.77	219.72	221.48	228.38	214.67	216.24
- STD. DEV.	0.00	0.00	6.81	8.62	8.82	8.44	10.16	8.74	9.35	8.76	10.00	10.48
WEIGHT - MEAN(gm)	0.00	0.00	114.33	126.57	138.78	144.70	152.17	155.97	157.94	173.19	143.53	148.51
- STD. DEV.	0.00	0.00	9.87	14.95	17.79	17.36	26.93	18.64	15.14	20.81	20.22	22.68

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	1	486	207	1	0	0	
% AT STAGE	0.00	0.00	0.00	0.14	69.93	29.78	0.14	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	1	334	0	335					
%	0.30	99.70	0.00	100.00					
% SAMPLE WEIGHT	0.06	28.03	0.00	28.08					
					NO.	360	335	0	695
					%	51.80	48.20	0.00	100.00
					MEAN WEIGHT	144.61	152.69	0.00	148.51
					% SAMP. WT.	50.44	49.56	0.00	100.00

Table 11 (cont'd). Gillnet roe fishery sample summaries by section

SECTION: 42 - AREA 4 NORTH  
 SAMPLE NUMBERS: 271,265,312,276  
 SOURCE: ROE FISHERY  
 GEAR: GILLNET  
 DATE: MAR 26/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	72	34	67	74	48	3	6	96	400
% AT AGE	0.00	0.00	0.00	23.68	11.18	22.04	24.34	15.79	0.99	1.97	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	202.03	208.85	212.72	216.93	222.54	216.67	221.83	209.10	211.72
- STD. DEV.	0.00	0.00	0.00	6.59	7.56	8.89	8.58	10.50	8.74	19.24	8.33	10.67
WEIGHT - MEAN(gm)	0.00	0.00	0.00	121.33	129.71	138.31	145.38	160.29	142.67	157.50	134.78	137.94
- STD. DEV.	0.00	0.00	0.00	13.13	10.50	17.29	19.20	27.12	13.01	32.25	17.71	21.59

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	0	255	143	2	0	0	
% AT STAGE	0.00	0.00	0.00	0.00	63.75	35.75	0.50	0.00	0.00	

## ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	0	221	0	221		NO.	179	221	0	400	
%	0.00	100.00	0.00	100.00		%	44.75	55.25	0.00	100.00	
% SAMPLE WEIGHT	0.00	27.96	0.00	27.96		MEAN WEIGHT	135.01	140.32	0.00	137.94	
						% SAMP. WT.	43.80	56.20	0.00	100.00	

Table 11 (cont'd.). Gillnet roe fishery sample summaries by section

SECTION: 72 - POWELL ANCHORAGE  
SAMPLE NUMBERS: 286,372  
SOURCE: ROE FISHERY  
GEAR: GILLNET  
DATE: MAR 24/92

#### SPECIMENS AT EACH AGE:

SPECIMENS AT EACH AGE:												
	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	7	11	7	11	75	11	7	3	68	200
% AT AGE	0.00	0.00	5.30	8.33	5.30	8.33	56.82	8.33	5.30	2.27	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	195.57	207.00	211.29	215.55	220.65	225.18	235.71	220.00	212.47	216.40
- STD. DEV.	0.00	0.00	4.43	5.44	2.81	9.10	10.16	8.35	13.07	11.14	12.12	12.45
WEIGHT - MEAN(gm)	0.00	0.00	119.43	137.09	147.29	143.45	153.65	161.73	197.14	161.00	148.03	150.93
- STD. DEV.	0.00	0.00	12.47	13.10	11.04	25.72	22.00	23.66	20.89	14.18	24.67	24.82

## HJORT Maturity Stages:

JORT MATURITY STAGES:		MATURITY STAGE								
====	=====	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE		0	0	0	1	120	50	29	0	0
% AT STAGE		0.00	0.00	0.00	0.50	60.00	25.00	14.50	0.00	0.00

**ROE Maturity (Female):**

OE MATURITY (FEMALE):					SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	1	104	18	123	NO.	77	123	0	200
%	0.81	84.55	14.63	100.00	%	38.50	61.50	0.00	100.00
% SAMPLE WEIGHT	0.12	25.15	0.24	25.52	MEAN WEIGHT	146.75	153.54	0.00	150.93
					% SAMP. WT.	37.44	62.56	0.00	100.00

Table 11 (cont'd). Gillnet roe fishery sample summaries by section

SECTION: 74 - THOMPSON BAY  
 SAMPLE NUMBERS: 311,374,280,266,307,283,298,315  
 SOURCE: ROE FISHERY  
 GEAR: GILLNET  
 DATE: MAR 24/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	47	43	26	40	400	65	19	8	152	800
% AT AGE	0.00	0.00	7.25	6.64	4.01	6.17	61.73	10.03	2.93	1.23	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	199.04	204.42	212.77	215.88	220.16	224.85	230.16	233.00	211.77	216.77
- STD. DEV.	0.00	0.00	5.10	7.86	8.21	9.12	9.73	11.00	10.20	7.73	11.71	12.11
WEIGHT - MEAN(gm)	0.00	0.00	125.04	135.37	152.62	153.93	164.65	174.12	188.63	190.00	146.20	157.91
- STD. DEV.	0.00	0.00	9.47	15.45	17.01	23.28	25.40	28.51	27.54	25.17	24.05	27.72

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	0	508	275	17	0	0	
% AT STAGE	0.00	0.00	0.00	0.00	63.50	34.38	2.13	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL	SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
					NO.	%				
NO.	0	420	7	427	373	427	0	800		
%	0.00	98.36	1.64	100.00	46.63	53.38	0.00	100.00		
% SAMPLE WEIGHT	0.00	29.15	0.03	29.17	MEAN WEIGHT	152.03	163.05	0.00	157.91	
					% SAMP. WT.	44.89	55.11	0.00	100.00	

Table 11 (cont'd). Gillnet roe fishery sample summaries by section

SECTION: 142 - BAYNES SOUND  
 SAMPLE NUMBERS: 114,113,138,129,121,285,304,119,125,131,  
                   126,124,140,130,128  
 SOURCE: ROE FISHERY  
 GEAR: GILLNET  
 DATE: MAR 14/92 - MAR 15/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	74	174	509	137	221	31	17	5	331	1499
% AT AGE	0.00	0.00	6.34	14.90	43.58	11.73	18.92	2.65	1.46	0.43	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	202.45	209.52	214.13	219.69	222.33	226.48	225.59	230.00	212.82	214.88
- STD. DEV.	0.00	0.00	5.74	7.27	7.96	7.68	8.74	7.33	7.50	5.79	9.47	9.72
WEIGHT - MEAN(gm)	0.00	0.00	123.72	134.86	145.40	154.36	161.03	170.61	170.47	176.40	141.59	146.30
- STD. DEV.	0.00	0.00	10.28	15.04	16.79	20.05	22.15	17.02	24.46	20.71	17.65	20.57

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	1	854	610	34	0	0	
% AT STAGE	0.00	0.00	0.00	0.07	56.97	40.69	2.27	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	0	766	14	780	NO.			718	780	1	1499
%	0.00	98.21	1.79	100.00	%			47.90	52.03	0.07	100.00
% SAMPLE WEIGHT	0.00	28.38	0.05	28.44	MEAN WEIGHT			143.92	148.46	168.00	146.30
					% SAMP. WT.			47.12	52.80	0.08	100.00

Table 11 (cont'd). Gillnet roe fishery sample summaries by section

SECTION: 232 - MACOAH PASS  
 SAMPLE NUMBERS: 83, 92, 89, 82, 127, 97, 80  
 SOURCE: ROE FISHERY  
 GEAR: GILLNET  
 DATE: MAR 8/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	35	75	171	77	166	16	14	2	144	700
% AT AGE	0.00	0.00	6.29	13.49	30.76	13.85	29.86	2.88	2.52	0.36	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	200.49	209.59	216.40	221.16	225.39	227.38	231.29	229.00	215.58	217.94
- STD. DEV.	0.00	0.00	6.49	7.52	7.29	8.96	8.98	11.13	10.28	5.66	10.25	10.95
WEIGHT - MEAN(gm)	0.00	0.00	124.06	137.12	153.64	155.58	164.14	170.31	182.93	161.00	147.13	152.74
- STD. DEV.	0.00	0.00	11.97	15.54	18.81	19.05	20.75	21.68	22.33	8.49	20.16	22.22

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	1	416	256	27	0	0	
% AT STAGE	0.00	0.00	0.00	0.14	59.43	36.57	3.86	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	1	301	2	304		NO.		396	304	0	700
%	0.33	99.01	0.66	100.00		%		56.57	43.43	0.00	100.00
% SAMPLE WEIGHT	0.06	28.90	0.05	29.01		MEAN WEIGHT		148.65	158.07	0.00	152.74
						% SAMP. WT.		55.06	44.94	0.00	100.00

Table 12. Pre-fishery charter sample summaries by area

AREA: 2W - WEST COAST Q.C.I.  
 SAMPLE NUMBERS: 253, 216, 230, 217, 198, 226, 172, 213, 255, 207,  
                   202, 206, 179, 214, 225, 212, 201, 204, 211, 324, 210  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 9/92 - APR 8/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	182	367	189	65	64	963	149	7	14	96	2096
% AT AGE	0.00	9.10	18.35	9.45	3.25	3.20	48.15	7.45	0.35	0.70	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.12	191.10	203.73	213.77	221.92	226.95	232.36	230.14	235.71	202.28	211.80
- STD. DEV.	0.00	8.91	8.60	9.87	9.93	10.52	9.59	8.72	4.74	10.19	27.54	23.50
WEIGHT - MEAN(gm)	0.00	54.51	101.33	131.63	151.69	170.23	189.02	203.14	199.14	208.57	133.95	153.72
- STD. DEV.	0.00	9.90	16.93	24.36	27.09	29.85	29.92	29.60	33.72	25.42	57.98	54.53

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	13	36	5	110	1285	413	205	5	24	
% AT STAGE	0.62	1.72	0.24	5.25	61.31	19.70	9.78	0.24	1.15	

ROE MATURITY (FEMALE):

					SEX RATIO:							
	IMMATURE	MATURE	SPENT	TOTAL					MALE	FEMALE	IMMATURE	TOTAL
NO.	83	867	86	1036					995	1036	65	2096
%	8.01	83.69	8.30	100.00					47.47	49.43	3.10	100.00
% SAMPLE WEIGHT	1.09	26.71	0.00	27.80					147.76	165.61	55.49	153.72
					MEAN WEIGHT				45.63	53.25	1.12	100.00
					% SAMP. WT.							

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

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AREA: 2E - EAST COAST Q.C.I.  
 SAMPLE NUMBERS: 336,234,167,174,342,180,371,193,175,320,  
 221,219,185,218,197,181,177  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 8/92 - APR 5/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	6	754	91	137	333	205	38	17	35	81	1697
% AT AGE	0.00	0.37	46.66	5.63	8.48	20.61	12.69	2.35	1.05	2.17	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.83	184.53	195.48	204.50	210.81	216.53	222.24	226.47	234.80	199.48	198.69
- STD. DEV.	0.00	9.37	7.89	9.88	7.89	7.87	9.24	11.06	9.37	10.99	16.64	17.06
WEIGHT - MEAN(gm)	0.00	59.33	89.03	110.25	129.04	144.72	153.27	164.63	170.65	193.74	119.43	118.10
- STD. DEV.	0.00	12.53	13.70	21.64	18.48	22.33	22.67	32.88	26.58	28.65	36.81	35.92

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	1	3	131	1206	340	16	0	0	
% AT STAGE	0.00	0.06	0.18	7.72	71.07	20.04	0.94	0.00	0.00	

## ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	66	743	8	817		NO.		879	817	1	1697
%	8.08	90.94	0.98	100.00		%		51.80	48.14	0.06	100.00
% SAMPLE WEIGHT	1.17	25.99	0.00	27.15		MEAN WEIGHT		111.65	125.14	42.00	118.10
						% SAMP. WT.		48.97	51.01	0.02	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 3 - NASS  
 SAMPLE NUMBERS: 182,173,186,205,208  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 15/92 - MAR 23/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	4	120	293	15	23	12	6	0	2	25	500
% AT AGE	0.00	0.84	25.26	61.68	3.16	4.84	2.53	1.26	0.00	0.42	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.75	173.85	184.15	198.73	204.26	206.67	203.83	0.00	230.50	183.76	183.76
- STD. DEV.	0.00	8.18	11.13	11.96	8.46	8.36	9.36	15.07	0.00	2.12	13.30	14.62
WEIGHT - MEAN(gm)	0.00	47.00	72.98	89.10	111.60	125.09	127.50	136.33	0.00	170.00	87.04	88.93
- STD. DEV.	0.00	10.71	17.15	19.70	15.03	19.94	13.42	36.45	0.00	28.28	21.83	24.57

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## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	74	333	88	5	0	0	
% AT STAGE	0.00	0.00	0.00	14.80	66.60	17.60	1.00	0.00	0.00	

## ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	MEAN WEIGHT	% SAMP. WT.				
NO.	49	205	0	254					246	254	0	500
%	19.29	80.71	0.00	100.00					49.20	50.80	0.00	100.00
% SAMPLE WEIGHT	4.17	21.30	0.00	25.47								

NO.	246	254	0	500
%	49.20	50.80	0.00	100.00
MEAN WEIGHT	84.28	93.44	0.00	88.93
% SAMP. WT.	46.62	53.38	0.00	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 4 - SKEENA  
 SAMPLE NUMBERS: 176,190,168,164,227,192,170,236,191  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 15/92 - MAR 26/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	6	215	459	47	46	45	34	4	4	39	899
% AT AGE	0.00	0.70	25.00	53.37	5.47	5.35	5.23	3.95	0.47	0.47	0.00	100.00
LENGTH - MEAN(mm)	0.00	151.17	174.52	185.99	199.85	208.78	211.78	213.74	219.00	221.25	177.44	187.18
- STD. DEV.	0.00	4.45	10.25	10.43	10.41	8.06	10.73	8.92	11.63	5.80	15.30	16.11
WEIGHT - MEAN(gm)	0.00	44.17	73.91	91.58	118.40	137.33	142.64	146.74	155.25	161.50	80.64	95.54
- STD. DEV.	0.00	4.67	14.98	18.17	21.93	16.34	21.65	15.92	39.96	17.14	24.24	28.87

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	1	0	84	637	163	11	1	0	
% AT STAGE	0.22	0.11	0.00	9.34	70.86	18.13	1.22	0.11	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	63	365	3	431		NO.	467	431	1	899	
%	14.62	84.69	0.70	100.00		%	51.95	47.94	0.11	100.00	
% SAMPLE WEIGHT	2.87	23.57	0.00	26.45		MEAN WEIGHT	92.34	99.15	37.00	95.54	
						% SAMP. WT.	50.21	49.75	0.04	100.00	

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

**AREA:** 5 - GRENVILLE-PRINCIPE  
**SAMPLE NUMBERS:** 359,231,233,223,242,163,247,183,250,327,  
 357,248,337,354,235,317,215,187,252,249,256  
**SOURCE:** PRE-FISHERY CHARTER  
**GEAR:** HERRING SEINE  
**DATE:** MAR 20/92 - MAR 30/92

**SPECIMENS AT EACH AGE:**

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	5	995	566	124	100	124	66	12	11	96	2099
% AT AGE	0.00	0.25	49.68	28.26	6.19	4.99	6.19	3.30	0.60	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.80	174.43	186.94	199.91	207.21	209.84	215.67	224.83	226.27	183.95	185.20
- STD. DEV.	0.00	6.46	11.21	10.03	9.31	9.94	9.74	11.43	8.82	5.26	20.22	17.38
WEIGHT - MEAN(gm)	0.00	50.40	75.54	95.10	117.81	130.86	136.69	150.02	169.08	181.91	94.16	93.79
- STD. DEV.	0.00	5.41	16.24	17.21	16.86	22.27	20.94	25.59	21.28	28.65	35.42	29.97

**HJORT MATURITY STAGES:**

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	1	5	56	1545	468	24	0	0	
% AT STAGE	0.00	0.05	0.24	2.67	73.61	22.30	1.14	0.00	0.00	

**ROE MATURITY (FEMALE):**

	IMMATURE				SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	MEAN WEIGHT	% SAMP. WT.				
NO.	28	1008	0	1036					1062	1036	1	2099
%	2.70	97.30	0.00	100.00					50.60	49.36	0.05	100.00
% SAMPLE WEIGHT	0.52	26.08	0.00	26.60					88.98	98.77	43.00	93.79
									48.00	51.98	0.02	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

**AREA:** 6 - BUTEDALE  
**SAMPLE NUMBERS:** 203, 166, 189, 194, 241, 246, 228, 155, 188, 240,  
 238, 178, 229, 373, 154, 184, 232, 199, 254  
**SOURCE:** PRE-FISHERY CHARTER  
**GEAR:** HERRING SEINE  
**DATE:** MAR 4/92 - MAR 27/92

**SPECIMENS AT EACH AGE:**

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	8	911	241	57	65	401	56	11	12	123	1885
% AT AGE	0.00	0.45	51.70	13.68	3.23	3.69	22.76	3.18	0.62	0.68	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.63	180.28	192.50	199.70	206.72	211.49	220.36	228.09	230.17	189.33	192.28
- STD. DEV.	0.00	11.65	11.69	9.86	9.54	10.42	10.33	9.91	12.50	12.32	20.73	18.49
WEIGHT - MEAN(gm)	0.00	55.13	87.75	108.19	121.88	135.54	147.80	172.45	193.82	194.92	106.50	110.72
- STD. DEV.	0.00	11.83	20.91	20.87	20.44	26.05	29.47	29.02	36.38	36.97	39.06	37.58

**HJORT MATURITY STAGES:**

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	3	5	311	1317	238	9	0	1	
% AT STAGE	0.05	0.16	0.27	16.50	69.87	12.63	0.48	0.00	0.05	

**ROE MATURITY (FEMALE):**

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
NO.	200	819	3	1022	NO.		860	1022	3	1885	
%	19.57	80.14	0.29	100.00	%		45.62	54.22	0.16	100.00	
% SAMPLE WEIGHT	3.87	24.10	0.00	27.97	MEAN WEIGHT		104.66	116.02	41.67	110.72	
					% SAMP. WT.		43.13	56.81	0.06	100.00	

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 7 - BELLA BELLA  
 SAMPLE NUMBERS: 243, 237, 368, 239, 141, 361, 165, 149, 148, 137,  
 134, 144, 145, 224, 171, 333, 220, 351, 244, 200,  
 251, 245, 104, 209, 366, 108, 375, 147, 222, 143,  
 330, 195, 132, 325, 105, 101, 169, 156, 110, 150, 362  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 3/92 - MAR 28/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	38	2330	410	102	147	741	74	24	19	209	4094
% AT AGE	0.00	0.98	59.97	10.55	2.63	3.78	19.07	1.90	0.62	0.49	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.47	178.83	189.50	199.26	206.90	212.22	219.43	227.63	229.16	183.86	188.76
- STD. DEV.	0.00	11.56	11.54	12.03	11.08	12.57	11.92	13.11	11.62	8.97	20.67	19.15
WEIGHT - MEAN(gm)	0.00	56.79	87.47	105.78	125.99	137.02	152.53	168.19	189.04	197.58	99.39	106.71
- STD. DEV.	0.00	15.24	19.35	23.42	25.14	31.09	30.78	35.02	27.99	32.78	38.64	37.47

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	3	4	485	2762	806	31	0	2	
% AT STAGE	0.02	0.07	0.10	11.85	67.46	19.69	0.76	0.00	0.05	

## ROE MATURITY (FEMALE):

					SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL					MALE	FEMALE	IMMATURE	TOTAL	
NO.	279	1817	9	2105					1984	2105	5	4094	
%	13.25	86.32	0.43	100.00					48.46	51.42	0.12	100.00	
% SAMPLE WEIGHT	2.72	24.82	0.02	27.56					MEAN WEIGHT	99.65	113.51	41.40	106.71
									% SAMP. WT.	45.26	54.70	0.05	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 8 - BELLA COOLA  
 SAMPLE NUMBERS: 142, 162, 159, 350, 136, 332, 109  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 6/92 - MAR 21/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	94	399	72	18	12	30	5	2	1	57	690
% AT AGE	0.00	14.85	63.03	11.37	2.84	1.90	4.74	0.79	0.32	0.16	0.00	100.00
LENGTH - MEAN(mm)	0.00	154.93	171.98	183.14	192.50	199.25	203.30	214.60	212.00	202.00	169.95	173.50
- STD. DEV.	0.00	9.97	11.04	11.68	11.38	9.60	10.81	5.27	5.66	0.00	17.02	16.37
WEIGHT - MEAN(gm)	0.00	46.72	73.11	89.75	105.39	118.08	126.47	143.20	151.50	131.00	70.35	75.79
- STD. DEV.	0.00	10.69	17.06	18.79	27.29	16.91	24.72	29.25	7.78	0.00	27.96	26.44

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	15	70	9	266	216	110	2	1	1	
% AT STAGE	2.17	10.14	1.30	38.55	31.30	15.94	0.29	0.14	0.14	

ROE MATURITY (FEMALE):

	SEX RATIO:									
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	176	177	1	354		NO.		354	68	690
%	49.72	50.00	0.28	100.00		%		51.30	9.86	100.00
% SAMPLE WEIGHT	9.79	12.87	0.06	22.72		MEAN WEIGHT		81.80	42.68	75.79
						% SAMP. WT.		55.37	5.55	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 10 - SMITH INLET  
 SAMPLE NUMBERS: 334,106  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 25/92 - MAR 30/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	5	55	20	5	5	7	0	0	0	103	200
% AT AGE	0.00	5.15	56.70	20.62	5.15	5.15	7.22	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	148.60	166.11	170.50	177.60	181.60	186.86	0.00	0.00	0.00	173.71	171.43
- STD. DEV.	0.00	6.58	11.62	14.13	12.97	10.36	7.52	0.00	0.00	0.00	18.09	16.35
WEIGHT - MEAN(gm)	0.00	42.40	66.02	75.60	81.20	89.80	96.14	0.00	0.00	0.00	80.31	75.78
- STD. DEV.	0.00	4.88	16.89	22.37	22.15	15.17	10.79	0.00	0.00	0.00	29.87	26.19

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	5	163	32	0	0	0	
% AT STAGE	0.00	0.00	0.00	2.50	81.50	16.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL		SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
	NO.	%				NO.	%	96	104	0	200
%	0.00	100.00	0.00	100.00		%	48.00	52.00	0.00	100.00	
% SAMPLE WEIGHT	0.00	25.88	0.00	25.88		MEAN WEIGHT	72.67	78.64	0.00	75.78	
						% SAMP. WT.	46.03	53.97	0.00	100.00	

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 14 - COMOX  
 SAMPLE NUMBERS: 15, 3, 24, 14, 50, 23, 29, 20, 12, 13,  
                   360, 41, 46, 6, 26, 16, 44, 25, 22, 18,  
                   28, 1, 48, 9, 11, 10  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 27/92 - MAR 16/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	126	1319	330	393	79	126	11	6	0	210	2600
% AT AGE	0.00	5.27	55.19	13.81	16.44	3.31	5.27	0.46	0.25	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.33	185.47	196.88	206.57	212.28	218.37	223.45	229.67	0.00	191.42	192.23
- STD. DEV.	0.00	12.13	11.36	10.59	10.25	9.80	10.77	11.85	6.89	0.00	17.58	16.86
WEIGHT - MEAN(gm)	0.00	60.03	88.95	111.22	133.39	146.56	162.25	173.82	183.17	0.00	103.53	104.15
- STD. DEV.	0.00	14.35	18.25	21.13	24.53	23.45	28.52	41.22	23.08	0.00	33.82	32.89

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	13	5	333	1916	237	94	1	0	
% AT STAGE	0.04	0.50	0.19	12.81	73.69	9.12	3.62	0.04	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:					
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	180	1101	42	1323		1263	1323	14	2600	
%	13.61	83.22	3.17	100.00		48.58	50.88	0.54	100.00	
% SAMPLE WEIGHT	2.14	22.93	0.01	25.08		MEAN WEIGHT	99.81	108.70	66.00	104.15
						% SAMP. WT.	46.55	53.11	0.34	100.00

Table 12 (Cont'd.). Pre-fishery charter sample summaries by area

AREA: 15 - WESTVIEW  
SAMPLE NUMBERS: 157,346,158,153  
SOURCE: PRE-FISHERY CHARTER  
GEAR: HERRING SEINE  
DATE: FEB 23/92 - FEB 28/92

SPECIMENS AT EACH AGE:

SPECIMENS AT EACH AGE:												
	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	1	201	53	92	8	28	1	2	0	14	400
% AT AGE	0.00	0.26	52.07	13.73	23.83	2.07	7.25	0.26	0.52	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	150.00	179.15	190.13	196.41	208.50	206.89	214.00	223.00	0.00	190.14	187.73
- STD. DEV.	0.00	0.00	9.58	9.94	9.08	7.63	10.30	0.00	1.41	0.00	16.95	14.02
WEIGHT - MEAN(gm)	0.00	52.00	78.49	95.62	107.00	130.50	128.61	139.00	177.00	0.00	96.36	93.07
- STD. DEV.	0.00	0.00	13.64	17.41	16.05	22.30	21.47	0.00	28.28	0.00	22.89	23.77

## HJORT Maturity Stages:

JORT MATURITY STAGES:		MATURITY STAGE								
		1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE		1	2	0	292	94	9	1	0	1
% AT STAGE		0.25	0.50	0.00	73.00	23.50	2.25	0.25	0.00	0.25

**ROE Maturity (Female):**

**OE MATURITY (FEMALE):**  
**IMMATURE MATURE SPENT TOTAL**

NO.	195	45	0	240
%	81.25	18.75	0.00	100.00
% SAMPLE WEIGHT	16.00	3.81	0.00	19.81

**SEX RATIO:**  
**MALE FEMALE IMMATURE TOTAL**

NO.	156	240	4	400
%	39.00	60.00	1.00	100.00
MEAN WEIGHT	92.29	94.09	62.25	93.07
% SAMP. WT.	38.67	60.66	0.67	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 17 - NANAIMO  
 SAMPLE NUMBERS: 21,353, 2, 38,161,328,323, 30, 47, 19,  
                   4, 36,160, 37, 17,339  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 24/92 - MAR 19/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	86	124	770	160	211	42	65	13	2	1	125	1599
% AT AGE	5.83	8.41	52.24	10.85	14.31	2.85	4.41	0.88	0.14	0.07	0.00	100.00
LENGTH - MEAN(mm)	94.67	161.47	184.00	196.51	208.52	215.29	220.42	227.38	220.00	235.00	180.36	184.38
- STD. DEV.	6.82	12.33	12.91	10.09	9.67	11.12	9.32	7.11	7.07	0.00	35.59	29.75
WEIGHT - MEAN(gm)	9.66	58.02	88.20	111.98	137.55	152.62	163.60	179.62	160.00	198.00	94.18	96.65
- STD. DEV.	2.44	14.87	19.76	20.91	23.07	25.56	23.10	22.57	12.73	0.00	48.25	40.94

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	42	39	3	377	919	112	75	1	31	
% AT STAGE	2.63	2.44	0.19	23.58	57.47	7.00	4.69	0.06	1.94	

## ROE MATURITY (FEMALE):

					SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL					MALE	FEMALE	IMMATURE	TOTAL	
NO.	210	451	28	689					808	689	102	1599	
%	30.48	65.46	4.06	100.00					50.53	43.09	6.38	100.00	
% SAMPLE WEIGHT	6.02	18.54	0.00	24.56					MEAN WEIGHT	97.66	107.69	14.12	96.65
									% SAMP. WT.	51.06	48.01	0.93	100.00

Table 12 (Cont'd.). Pre-fishery charter sample summaries by area

AREA: 23 - BARKLEY SOUND  
SAMPLE NUMBERS: 53, 45, 5, 33, 338, 344, 40, 8, 7, 335,  
322, 367, 321, 347, 326, 356, 352, 34, 345, 57,  
42, 370, 348, 329, 31, 365, 69, 39, 319, 32,  
59, 358, 43

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 20/92 - MAR 17/92

SPECIMENS AT EACH AGE:

SPECIMENS AT EACH AGE:											AGE	
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	44	1284	324	435	194	548	69	41	10	299	3248
% AT AGE	0.00	1.49	43.54	10.99	14.75	6.58	18.58	2.34	1.39	0.34	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.02	188.11	201.40	211.72	219.07	223.54	227.65	231.29	233.00	201.74	202.91
- STD. DEV.	0.00	8.31	11.70	9.97	8.19	9.03	8.70	9.28	10.34	6.85	20.18	18.99
WEIGHT - MEAN(gm)	0.00	70.18	103.03	126.47	149.83	164.57	176.80	189.72	192.85	202.00	130.83	133.15
- STD. DEV.	0.00	11.83	21.80	22.56	21.36	22.97	24.42	26.45	27.36	26.25	40.98	39.70

#### HJORT MATURITY STAGES:

HJORT MATURITY STAGES:		MATURITY STAGE								
		1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE		2	1	7	348	2114	667	108	0	1
% AT STAGE		0.06	0.03	0.22	10.71	65.09	20.54	3.33	0.00	0.03

**ROE MATURITY (FEMALE):**

ROE MATURITY (FEMALE): SEX RATIO:  
 ===== ====== ======  
 IMMATURE MATURE SPENT TOTAL MALE FEMALE IMMATURE TOTAL  
 NO. 222 1445 8 1675 NO. 1570 1675 3 3248  
 % 13.25 86.27 0.48 100.00 % 48.34 51.57 0.09 100.00  
 % SAMPLE WEIGHT 2.97 25.30 0.00 28.28 MEAN WEIGHT 124.87 140.92 130.00 133.15  
% SAMP. WT. 45.33 54.58 0.09 100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 24 - CLAYOQUOT SOUND  
 SAMPLE NUMBERS: 349, 58, 35, 341, 318, 49, 107, 61, 27, 54  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 22/92 - MAR 18/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	12	302	97	127	61	185	18	15	1	45	863
% AT AGE	0.00	1.47	36.92	11.86	15.53	7.46	22.62	2.20	1.83	0.12	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.50	187.65	202.76	212.98	219.62	225.26	225.89	236.53	230.00	204.80	205.61
- STD. DEV.	0.00	8.38	10.51	9.14	7.54	7.43	7.92	8.48	9.33	0.00	26.07	19.62
WEIGHT - MEAN(gm)	0.00	62.25	101.41	129.09	151.61	167.67	182.85	183.50	206.60	211.00	140.49	139.21
- STD. DEV.	0.00	12.95	18.43	21.16	20.75	18.80	24.40	26.22	25.40	0.00	52.37	41.94

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	104	525	216	16	0	2	
% AT STAGE	0.00	0.00	0.00	12.05	60.83	25.03	1.85	0.00	0.23	

ROE MATURITY (FEMALE):

	SEX RATIO:									
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	70	358	4	432		429	432	2	863	
%	16.20	82.87	0.93	100.00		49.71	50.06	0.23	100.00	
% SAMPLE WEIGHT	3.21	25.20	0.05	28.47		MEAN WEIGHT	132.31	146.54	36.50	139.21
						% SAMP. WT.	47.25	52.69	0.06	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 25 - NOOTKA SOUND  
 SAMPLE NUMBERS: 67, 331, 63, 62, 55, 70, 64, 51, 56  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 26/92 - MAR 21/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	22	701	71	34	15	19	4	3	1	30	900
% AT AGE	0.00	2.53	80.57	8.16	3.91	1.72	2.18	0.46	0.34	0.11	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.73	185.17	197.93	211.21	220.00	220.16	234.50	236.67	237.00	185.67	188.42
- STD. DEV.	0.00	8.22	9.76	9.69	7.58	11.03	13.45	5.45	10.12	0.00	23.87	14.75
WEIGHT - MEAN(gm)	0.00	67.68	98.90	121.24	150.06	168.33	180.00	209.00	236.67	228.00	104.47	105.98
- STD. DEV.	0.00	10.26	17.28	17.76	21.63	33.42	32.31	40.27	22.03	0.00	48.12	29.41

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	92	670	130	8	0	0	
% AT STAGE	0.00	0.00	0.00	10.22	74.44	14.44	0.89	0.00	0.00	

## ROE MATURITY (FEMALE):

	SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	69	410	2	481					
%	14.35	85.24	0.42	100.00					
% SAMPLE WEIGHT	2.75	23.42	0.00	26.18					
					NO.	419	481	0	900
					%	46.56	53.44	0.00	100.00
					MEAN WEIGHT	99.89	111.28	0.00	105.98
					% SAMP. WT.	43.88	56.12	0.00	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

AREA: 26 - KYUQUOT SOUND  
 SAMPLE NUMBERS: 117, 52  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 1/92 - MAR 14/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	10	128	15	7	4	18	3	3	3	9	200
% AT AGE	0.00	5.24	67.02	7.85	3.66	2.09	9.42	1.57	1.57	1.57	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.90	188.84	200.07	220.00	218.75	230.61	227.67	249.33	247.67	177.33	195.54
- STD. DEV.	0.00	9.06	8.54	12.14	8.45	8.54	10.73	12.10	3.79	7.64	29.54	21.53
WEIGHT - MEAN(gm)	0.00	53.90	100.89	122.73	183.00	179.75	219.28	212.67	250.33	266.33	88.44	121.13
- STD. DEV.	0.00	10.64	16.70	24.48	31.74	22.38	31.21	29.87	12.58	32.13	62.99	53.26

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	4	2	3	146	42	2	0	0	
% AT STAGE	0.50	2.00	1.00	1.50	73.00	21.00	1.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:					
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	8	105	2	115		NO.	84	115	1	200
%	6.96	91.30	1.74	100.00		%	42.00	57.50	0.50	100.00
% SAMPLE WEIGHT	0.40	26.03	0.00	26.43		MEAN WEIGHT	108.39	131.03	51.00	121.13
						% SAMP. WT.	37.59	62.20	0.21	100.00

Table 12 (Cont'd). Pre-fishery charter sample summaries by area

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AREA: 27 - QUATSINO SOUND  
 SAMPLE NUMBERS: 66, 60, 139, 340, 122, 364, 68, 120, 111, 363,  
 65, 116, 123, 118, 115  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 26/92 - MAR 15/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	49	1003	158	48	41	71	14	18	7	85	1494
% AT AGE	0.00	3.48	71.19	11.21	3.41	2.91	5.04	0.99	1.28	0.50	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.76	186.24	201.19	211.17	222.00	228.37	232.36	241.28	247.57	190.22	192.34
- STD. DEV.	0.00	14.41	11.43	11.49	10.28	9.66	12.06	12.84	7.37	6.35	24.15	19.48
WEIGHT - MEAN(gm)	0.00	60.47	102.04	132.76	153.79	182.10	203.55	221.21	234.44	251.14	114.87	116.75
- STD. DEV.	0.00	16.47	21.16	25.60	30.47	36.97	38.65	35.18	28.42	12.59	49.91	42.72

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	1	3	186	1022	271	8	2	0	
% AT STAGE	0.07	0.07	0.20	12.45	68.41	18.14	0.54	0.13	0.00	

## ROE MATURITY (FEMALE):

					SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL					MALE	FEMALE	IMMATURE	TOTAL	
NO.	122	675	7	804					689	804	1	1494	
%	15.17	83.96	0.87	100.00					46.12	53.82	0.07	100.00	
% SAMPLE WEIGHT	2.89	24.64	0.03	27.56					MEAN WEIGHT	110.33	122.34	48.00	116.75
									% SAMP. WT.	43.58	56.39	0.03	100.00

Table 13. Pre-fishery charter sample summaries by section

SECTION: 1 - TASU SOUND  
 SAMPLE NUMBERS: 210  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: APR 8/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	4	40	13	5	2	23	8	1	0	4	100
% AT AGE	0.00	4.17	41.67	13.54	5.21	2.08	23.96	8.33	1.04	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	177.00	192.25	205.62	214.40	216.00	231.04	238.13	230.00	0.00	197.75	208.15
- STD. DEV.	0.00	5.72	7.41	8.85	13.05	22.63	6.18	7.51	0.00	0.00	21.56	20.49
WEIGHT - MEAN(gm)	0.00	65.50	90.07	106.77	125.40	122.00	150.57	161.50	146.00	0.00	99.75	114.24
- STD. DEV.	0.00	5.45	9.22	13.02	23.16	21.21	17.99	12.80	0.00	0.00	30.90	32.34

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	0	0	0	100	0	0	
% AT STAGE	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	0	0	38	38		NO.		62	100
%	0.00	0.00	100.00	100.00		%		62.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00		MEAN WEIGHT		103.89	114.24
						% SAMP. WT.		43.62	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 2 - PORT LOUIS  
 SAMPLE NUMBERS: 211,207  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 30/92 - MAR 31/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	148	13	2	1	0	17	0	0	0	19	200
% AT AGE	0.00	81.77	7.18	1.10	0.55	0.00	9.39	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.26	182.31	188.00	220.00	0.00	229.53	0.00	0.00	0.00	161.37	169.74
- STD. DEV.	0.00	8.92	8.68	2.83	0.00	0.00	7.03	0.00	0.00	0.00	12.21	21.47
WEIGHT - MEAN(gm)	0.00	52.55	74.15	76.50	124.00	0.00	145.88	0.00	0.00	0.00	53.63	62.58
- STD. DEV.	0.00	8.76	9.93	7.78	0.00	0.00	15.38	0.00	0.00	0.00	12.30	28.29

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	10	36	5	9	6	2	103	5	24	
% AT STAGE	5.00	18.00	2.50	4.50	3.00	1.00	51.50	2.50	12.00	

ROE MATURITY (FEMALE):

					SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL	MALE	FEMALE	IMMATURE	TOTAL	
NO.	14	3	47	64					
%	21.88	4.69	73.44	100.00					
% SAMPLE WEIGHT	0.68	0.61	0.00	1.29					
					NO.	74	64	62	200
					%	37.00	32.00	31.00	100.00
					MEAN WEIGHT	62.34	71.64	53.53	62.58
					% SAMP. WT.	36.85	36.63	26.52	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 3 - RENNELL SOUND  
 SAMPLE NUMBERS: 202, 206, 213, 216, 217, 198, 204, 214, 212, 201  
 SOURCE: PRÈ-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 12/92 - APR 2/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	15	59	136	14	37	561	110	6	13	45	996
% AT AGE	0.00	1.58	6.20	14.30	1.47	3.89	58.99	11.57	0.63	1.37	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.93	192.90	203.63	207.93	223.59	227.69	232.31	230.17	236.69	216.09	221.13
- STD. DEV.	0.00	8.28	10.09	9.63	11.91	10.48	9.57	8.70	5.19	9.90	17.97	16.67
WEIGHT - MEAN(gm)	0.00	67.53	111.85	135.03	141.43	179.19	196.24	209.25	208.00	208.15	167.24	179.89
- STD. DEV.	0.00	11.10	20.48	23.23	31.04	28.47	28.89	28.47	26.56	26.40	42.29	42.66

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	0	0	10	777	206	2	0	0	
% AT STAGE	0.10	0.00	0.00	1.00	78.01	20.68	0.20	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:									
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	7	484	1	492		NO.	503	492	1	996
%	1.42	98.37	0.20	100.00		%	50.50	49.40	0.10	100.00
% SAMPLE WEIGHT	0.32	29.64	0.00	29.96		MEAN WEIGHT	170.05	189.95	187.00	179.89
						% SAMP. WT.	47.74	52.16	0.10	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 5 - ENGLEFIELD BAY  
 SAMPLE NUMBERS: 225  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 23/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	28	9	1	2	50	7	0	0	3	100
% AT AGE	0.00	0.00	28.87	9.28	1.03	2.06	51.55	7.22	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	189.46	197.89	216.00	202.50	224.08	233.29	0.00	0.00	211.33	211.78
- STD. DEV.	0.00	0.00	9.68	10.55	0.00	0.71	8.99	5.28	0.00	0.00	2.31	18.59
WEIGHT - MEAN(gm)	0.00	0.00	104.04	124.00	194.00	125.50	180.30	193.14	0.00	0.00	140.00	152.61
- STD. DEV.	0.00	0.00	15.87	26.25	0.00	21.92	27.88	20.41	0.00	0.00	21.63	42.79

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	0	46	54	0	0	0	
% AT STAGE	0.00	0.00	0.00	0.00	46.00	54.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE					SEX RATIO:					
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL		
NO.	0	44	0	44		NO.		56	44	0	100
%	0.00	100.00	0.00	100.00		%		56.00	44.00	0.00	100.00
% SAMPLE WEIGHT	0.00	27.55	0.00	27.55		MEAN WEIGHT		154.61	150.07	0.00	152.61
						% SAMP. WT.		56.73	43.27	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 6 - LOUSCOONE INLET  
 SAMPLE NUMBERS: 179, 324, 230, 253, 226, 172, 255  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 9/92 - MAR 20/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	15	227	29	44	23	312	24	0	1	25	700
% AT AGE	0.00	2.22	33.63	4.30	6.52	3.41	46.22	3.56	0.00	0.15	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.07	191.13	206.24	215.36	221.43	225.64	230.42	0.00	223.00	208.16	211.06
- STD. DEV.	0.00	5.38	7.95	10.20	8.56	8.44	9.82	9.47	0.00	0.00	22.54	19.69
WEIGHT - MEAN(gm)	0.00	57.87	101.80	133.00	157.61	163.91	182.61	191.96	0.00	214.00	139.80	148.32
- STD. DEV.	0.00	7.96	14.54	23.02	23.25	24.75	27.37	26.39	0.00	0.00	48.32	45.61

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	0	0	91	456	151	0	0	0	
% AT STAGE	0.29	0.00	0.00	13.00	65.14	21.57	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL					MALE	FEMALE	IMMATURE	TOTAL	
NO.	62	336	0	398					300	398	2	700	
%	15.58	84.42	0.00	100.00					42.86	56.86	0.29	100.00	
% SAMPLE WEIGHT	2.49	26.27	0.00	28.76					MEAN WEIGHT	139.26	155.65	50.50	148.32
									% SAMP. WT.	40.24	59.66	0.10	100.00

Table 13 (Cont'd.). Pre-fishery charter sample summaries by section.

SECTION: 21 - JUAN PEREZ SOUND  
SAMPLE NUMBERS: 219,185,177,197,234,371,193,175,320  
SOURCE: PRE-FISHERY CHARTER  
GEAR: HERRING SEINE  
DATE: MAR 8/92 - APR 2/92

SPECIMENS AT EACH AGE:

SPECIMENS AT EACH AGE:		AGE											
		0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE		0	3	489	38	57	118	115	12	9	21	37	899
% AT AGE		0.00	0.35	56.73	4.41	6.61	13.69	13.34	1.39	1.04	2.44	0.00	100.00
LENGTH - MEAN(mm)		0.00	162.67	184.09	191.92	203.16	209.36	216.37	218.33	223.78	237.43	193.54	195.49
- STD. DEV.		0.00	11.24	7.64	10.29	8.92	7.29	8.91	15.38	9.24	10.56	16.72	17.09
WEIGHT - MEAN(gm)		0.00	55.67	87.25	99.53	121.68	135.59	149.99	149.42	169.56	192.33	102.97	108.97
- STD. DEV.		0.00	14.01	12.65	17.60	18.08	17.99	21.08	39.16	28.34	26.78	30.65	33.32

#### HJORT MATURITY STAGES:

HJORT MATURITY STAGES:			MATURITY STAGE								
=====	=====	=====	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	2	68	656	171	1	0	0	0	0
% AT STAGE	0.00	0.11	0.22	7.56	72.97	19.02	0.11	0.00	0.00	0.00	0.00

**ROE Maturity (Female):**

**ROE MATURITY (FEMALE):**  
 =====  
 IMMATURE MATURE SPENT TOTAL  
 NO. 27 383 1 411  
 % 6.57 93.19 0.24 100.00  
 % SAMPLE WEIGHT 1.09 25.32 0.00 26.41

**SEX RATIO:**  
 =====  
 MALE FEMALE IMMATURE TOTAL  
 NO. 487 411 1 899  
 % 54.17 45.72 0.11 100.00  
 MEAN WEIGHT 103.39 115.76 42.00 108.97  
 % SAMP. WT. 51.39 48.56 0.04 100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 23 - CUMSHEWA INLET  
 SAMPLE NUMBERS: 180,167,218  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: APR 4/92 - APR 5/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	1	53	17	37	115	32	15	2	8	19	299
% AT AGE	0.00	0.36	18.93	6.07	13.21	41.07	11.43	5.36	0.71	2.86	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.00	188.32	204.12	205.41	211.98	218.59	225.20	227.00	230.50	206.68	208.02
- STD. DEV.	0.00	0.00	8.44	7.88	7.39	8.18	9.92	8.34	9.90	10.76	13.04	14.11
WEIGHT - MEAN(gm)	0.00	77.00	102.43	133.24	138.38	155.14	162.66	178.67	162.50	204.38	145.53	144.96
- STD. DEV.	0.00	0.00	16.92	21.28	16.06	24.63	24.75	28.79	21.92	32.12	32.56	33.29

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	0	226	73	0	0	0	
% AT STAGE	0.00	0.00	0.00	0.00	75.59	24.41	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:					
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	0	142	0	142		NO.	157	142	0	299
%	0.00	100.00	0.00	100.00		%	52.51	47.49	0.00	100.00
% SAMPLE WEIGHT	0.00	28.69	0.00	28.69		MEAN WEIGHT	139.62	150.86	0.00	144.96
						% SAMP. WT.	50.57	49.43	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 24 - LASKEEK BAY  
 SAMPLE NUMBERS: 181,174,342,221  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 22/92 - APR 4/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	2	143	30	41	89	54	10	5	6	20	400
% AT AGE	0.00	0.53	37.63	7.89	10.79	23.42	14.21	2.63	1.32	1.58	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.00	184.00	195.80	205.63	210.60	215.65	224.00	228.80	231.33	206.80	200.56
- STD. DEV.	0.00	5.66	8.04	8.07	6.71	7.86	9.83	6.45	9.96	11.86	15.90	16.74
WEIGHT - MEAN(gm)	0.00	56.00	92.06	113.63	131.83	145.44	156.76	167.40	181.20	184.50	133.65	124.65
- STD. DEV.	0.00	4.24	13.47	16.18	16.87	18.72	22.61	17.04	27.34	31.26	34.37	33.74

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	3	301	96	0	0	0	
% AT STAGE	0.00	0.00	0.00	0.75	75.25	24.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	NO.	%				
NO.	1	209	0	210					190	210	0	400
%	0.48	99.52	0.00	100.00					47.50	52.50	0.00	100.00
% SAMPLE WEIGHT	0.13	29.08	0.00	29.21					114.68	133.67	0.00	124.65
					MEAN WEIGHT							
					% SAMP. WT.				43.70	56.30	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 25 - SKINCUTTLE INLET  
 SAMPLE NUMBERS: 336  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 9/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	69	6	2	11	4	1	1	0	5	99
% AT AGE	0.00	0.00	73.40	6.38	2.13	11.70	4.26	1.06	1.06	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	185.83	192.00	203.00	215.91	216.75	207.00	238.00	0.00	186.80	191.93
- STD. DEV.	0.00	0.00	7.99	5.62	7.07	7.48	2.75	0.00	0.00	0.00	3.96	14.03
WEIGHT - MEAN(gm)	0.00	0.00	85.10	96.17	109.00	127.82	125.50	109.00	144.00	0.00	85.20	93.47
- STD. DEV.	0.00	0.00	11.61	13.73	4.24	14.82	10.15	0.00	0.00	0.00	7.60	19.81

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	1	60	23	0	15	0	0	
% AT STAGE	0.00	0.00	1.01	60.61	23.23	0.00	15.15	0.00	0.00	

ROE MATURITY (FEMALE):

						SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	38	9	7	54		NO.	45	54	99	
%	70.37	16.67	12.96	100.00		%	45.45	54.55	100.00	
% SAMPLE WEIGHT	12.34	4.10	0.00	16.44		MEAN WEIGHT	90.78	95.72	0.00	93.47
						% SAMP. WT.	44.14	55.86	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 33 - PORT SIMPSON  
 SAMPLE NUMBERS: 208, 173, 186, 205, 182  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 15/92 - MAR 23/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	4	120	293	15	23	12	6	0	2	25	500
% AT AGE	0.00	0.84	25.26	61.68	3.16	4.84	2.53	1.26	0.00	0.42	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.75	173.85	184.15	198.73	204.26	206.67	203.83	0.00	230.50	183.76	183.76
- STD. DEV.	0.00	8.18	11.13	11.96	8.46	8.36	9.36	15.07	0.00	2.12	13.30	14.62
WEIGHT - MEAN(gm)	0.00	47.00	72.98	89.10	111.60	125.09	127.50	136.33	0.00	170.00	87.04	88.93
- STD. DEV.	0.00	10.71	17.15	19.70	15.03	19.94	13.42	36.45	0.00	28.28	21.83	24.57

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	74	333	88	5	0	0	
% AT STAGE	0.00	0.00	0.00	14.80	66.60	17.60	1.00	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	MEAN WEIGHT	% SAMP. WT.				
NO.	49	205	0	254					246	254	0	500
%	19.29	80.71	0.00	100.00					49.20	50.80	0.00	100.00
% SAMPLE WEIGHT	4.17	21.30	0.00	25.47					84.28	93.44	0.00	88.93
									46.62	53.38	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 42 - AREA 4 NORTH  
 SAMPLE NUMBERS: 170, 236, 191, 168, 164, 227, 192, 176, 190  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 15/92 - MAR 26/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	6	215	459	47	46	45	34	4	4	39	899
% AT AGE	0.00	0.70	25.00	53.37	5.47	5.35	5.23	3.95	0.47	0.47	0.00	100.00
LENGTH - MEAN(mm)	0.00	151.17	174.52	185.99	199.85	208.78	211.78	213.74	219.00	221.25	177.44	187.18
- STD. DEV.	0.00	4.45	10.25	10.43	10.41	8.06	10.73	8.92	11.63	5.80	15.30	16.11
WEIGHT - MEAN(gm)	0.00	44.17	73.91	91.58	118.40	137.33	142.64	146.74	155.25	161.50	80.64	95.54
- STD. DEV.	0.00	4.67	14.98	18.17	21.93	16.34	21.65	15.92	39.96	17.14	24.24	28.87

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	1	0	84	637	163	11	1	0	
% AT STAGE	0.22	0.11	0.00	9.34	70.86	18.13	1.22	0.11	0.00	

ROE MATURITY (FEMALE):

						SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		NO.	MALE	FEMALE	IMMATURE	TOTAL
NO.	63	365	3	431		NO.	467	431	1	899
%	14.62	84.69	0.70	100.00		%	51.95	47.94	0.11	100.00
% SAMPLE WEIGHT	2.87	23.57	0.00	26.45		MEAN WEIGHT	92.34	99.15	37.00	95.54
						% SAMP. WT.	50.21	49.75	0.04	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 52 - KITKATLA INLET  
 SAMPLE NUMBERS: 337, 354, 235, 317, 187, 252, 215, 249, 256, 357,  
                   248, 359, 231, 233, 223, 242, 163, 247, 183, 250, 327  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 20/92 - MAR 30/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	5	995	566	124	100	124	66	12	11	96	2099
% AT AGE	0.00	0.25	49.68	28.26	6.19	4.99	6.19	3.30	0.60	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.80	174.43	186.94	199.91	207.21	209.84	215.67	224.83	226.27	183.95	185.20
- STD. DEV.	0.00	6.46	11.21	10.03	9.31	9.94	9.74	11.43	8.82	5.26	20.22	17.38
WEIGHT - MEAN(gm)	0.00	50.40	75.54	95.10	117.81	130.86	136.69	150.02	169.08	181.91	94.16	93.79
- STD. DEV.	0.00	5.41	16.24	17.21	16.86	22.27	20.94	25.59	21.28	28.65	35.42	29.97

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	1	5	56	1545	468	24	0	0	
% AT STAGE	0.00	0.05	0.24	2.67	73.61	22.30	1.14	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	MEAN WEIGHT	% SAMP. WT.				
NO.	28	1008	0	1036					1062	1036	1	2099
%	2.70	97.30	0.00	100.00					50.60	49.36	0.05	100.00
% SAMPLE WEIGHT	0.52	26.08	0.00	26.60					88.98	98.77	43.00	93.79
									48.00	51.98	0.02	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 67 - LAREDO SOUND  
SAMPLE NUMBERS: 178, 229, 373, 154, 184, 232, 199, 254, 155, 188,  
240, 238, 203, 166, 189, 194, 241, 246, 228  
SOURCE: PRE-FISHERY CHARTER  
GEAR: HERRING SEINE  
DATE: MAR 4/92 - MAR 27/92

SPECIMENS AT EACH AGE:

	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	8	911	241	57	65	401	56	11	12	123	1885
% AT AGE	0.00	0.45	51.70	13.68	3.23	3.69	22.76	3.18	0.62	0.68	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.63	180.28	192.50	199.70	206.72	211.49	220.36	228.09	230.17	189.33	192.28
- STD. DEV.	0.00	11.65	11.69	9.86	9.54	10.42	10.33	9.91	12.50	12.32	20.73	18.49
WEIGHT - MEAN(gm)	0.00	55.13	87.75	108.19	121.88	135.54	147.80	172.45	193.82	194.92	106.50	110.72
- STD. DEV.	0.00	11.83	20.91	20.87	20.44	26.05	29.47	29.02	36.38	36.97	39.06	37.58

#### HJORT MATURITY STAGES:

	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	3	5	311	1317	238	9	0	1
% AT STAGE	0.05	0.16	0.27	16.50	69.87	12.63	0.48	0.00	0.05

**ROE Maturity (Female):**

	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	200	819	3	1022	NO.	860	1022	3	1885
%	19.57	80.14	0.29	100.00	%	45.62	54.22	0.16	100.00
% SAMPLE WEIGHT	3.87	24.10	0.00	27.97	MEAN WEIGHT	104.66	116.02	41.67	110.72
					% SAMP. WT.	43.13	56.81	0.06	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 72 - POWELL ANCHORAGE  
 SAMPLE NUMBERS: 143,169,362,251,245,375,237,368,239,144  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 5/92 - MAR 19/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	11	597	102	25	22	170	18	4	6	45	1000
% AT AGE	0.00	1.15	62.51	10.68	2.62	2.30	17.80	1.88	0.42	0.63	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.27	178.25	188.64	202.52	207.68	212.19	220.44	236.75	229.67	184.84	187.69
- STD. DEV.	0.00	11.62	11.63	11.81	11.00	12.53	11.14	13.34	6.90	10.98	21.05	19.17
WEIGHT - MEAN(gm)	0.00	58.27	87.73	105.15	131.72	143.77	154.98	165.22	206.75	202.17	101.60	106.13
- STD. DEV.	0.00	15.20	18.82	23.73	26.02	29.80	28.91	32.78	25.85	38.37	42.22	37.34

## HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	100	720	170	8	0	0
% AT STAGE	0.00	0.10	0.10	10.00	72.00	17.00	0.80	0.00	0.00

## ROE MATURITY (FEMALE):

						SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	53	468	5	526		473	526	1	1000	
%	10.08	88.97	0.95	100.00		47.30	52.60	0.10	100.00	
% SAMPLE WEIGHT	2.25	25.81	0.05	28.11		MEAN WEIGHT	97.88	113.67	45.00	106.13
						% SAMP. WT.	43.62	56.34	0.04	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 74 - THOMPSON BAY  
 SAMPLE NUMBERS: 224,171,137,220,351,244,141,361,165,108,  
                   104,200,110,101,105,330,195,222  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 3/92 - MAR 22/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	19	1055	164	42	47	313	33	16	12	93	1794
% AT AGE	0.00	1.12	62.02	9.64	2.47	2.76	18.40	1.94	0.94	0.71	0.00	100.00
LENGTH - MEAN(mm)	0.00	157.84	180.09	191.67	200.00	209.91	214.41	220.82	227.50	229.33	186.80	190.00
- STD. DEV.	0.00	8.76	10.45	11.19	10.71	11.61	11.76	12.61	11.52	8.62	19.88	18.91
WEIGHT - MEAN(gm)	0.00	56.21	88.47	109.68	128.48	146.17	157.59	176.09	187.44	199.08	103.43	108.58
- STD. DEV.	0.00	10.85	18.28	23.74	24.28	31.96	30.69	37.03	26.44	29.77	39.07	38.66

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	1	2	279	1156	346	9	0	1	
% AT STAGE	0.00	0.06	0.11	15.55	64.44	19.29	0.50	0.00	0.06	

## ROE MATURITY (FEMALE):

					SEX RATIO:		MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%				
NO.	173	746	1	920			873	920	1	1794
%	18.80	81.09	0.11	100.00			48.66	51.28	0.06	100.00
% SAMPLE WEIGHT	3.66	22.97	0.01	26.64			101.81	115.04	82.00	108.58
					MEAN WEIGHT					
					% SAMP. WT.		45.63	54.33	0.04	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 77 - MILBANKE SOUND  
 SAMPLE NUMBERS: 132, 325, 156, 150, 209, 366, 147, 149, 148, 333,  
 145, 134  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 4/92 - MAR 28/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	6	634	124	30	75	248	23	4	1	55	1200
% AT AGE	0.00	0.52	55.37	10.83	2.62	6.55	21.66	2.01	0.35	0.09	0.00	100.00
LENGTH - MEAN(mm)	0.00	146.67	178.08	190.09	197.47	206.20	210.36	216.65	219.00	224.00	181.62	189.15
- STD. DEV.	0.00	11.40	12.16	11.05	10.03	11.07	11.41	13.76	10.68	0.00	16.56	18.76
WEIGHT - MEAN(gm)	0.00	49.67	86.79	106.12	122.60	131.80	146.38	159.17	177.75	152.00	95.36	106.76
- STD. DEV.	0.00	22.43	20.53	19.36	22.34	27.54	29.91	32.56	35.20	0.00	30.09	35.27

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	1	1	106	795	282	14	0	1	
% AT STAGE	0.00	0.08	0.08	8.83	66.25	23.50	1.17	0.00	0.08	

ROE MATURITY (FEMALE):

	SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	53	547	3	603					
%	8.79	90.71	0.50	100.00					
% SAMPLE WEIGHT	1.87	26.65	0.01	28.53					
					NO.	595	603	2	1200
					%	49.58	50.25	0.17	100.00
					MEAN WEIGHT	99.84	113.85	28.50	106.76
					% SAMP. WT.	46.37	53.59	0.04	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 78 - DON PENINSULA  
 SAMPLE NUMBERS: 243  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 24/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	2	44	20	5	3	10	0	0	0	16	100
% AT AGE	0.00	2.38	52.38	23.81	5.95	3.57	11.90	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	174.00	167.11	172.50	187.60	171.33	190.10	0.00	0.00	0.00	171.69	172.51
- STD. DEV.	0.00	18.38	17.42	12.53	14.33	11.02	12.45	0.00	0.00	0.00	31.30	19.86
WEIGHT - MEAN(gm)	0.00	75.50	69.57	74.85	96.80	74.67	105.40	0.00	0.00	0.00	83.56	78.08
- STD. DEV.	0.00	24.75	24.83	20.38	28.61	18.56	22.08	0.00	0.00	0.00	49.07	30.59

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	0	0	0	91	8	0	0	0	
% AT STAGE	1.00	0.00	0.00	0.00	91.00	8.00	0.00	0.00	0.00	

ROE MATURITY (FEMALE):

	IMMATURE					SEX RATIO:				
	MATURE	SPENT	TOTAL			MALE	FEMALE	IMMATURE	TOTAL	
NO.	0	56	0	56		NO.	43	56	1	100
%	0.00	100.00	0.00	100.00		%	43.00	56.00	1.00	100.00
% SAMPLE WEIGHT	0.00	27.11	0.00	27.11		MEAN WEIGHT	72.72	83.18	23.00	78.08
						% SAMP. WT.	40.05	59.66	0.29	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 85 - KWAKSHUA CHANNEL  
 SAMPLE NUMBERS: 109,136,332,350,142,162,159  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 6/92 - MAR 21/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	94	399	72	18	12	30	5	2	1	57	690
% AT AGE	0.00	14.85	63.03	11.37	2.84	1.90	4.74	0.79	0.32	0.16	0.00	100.00
LENGTH - MEAN(mm)	0.00	154.93	171.98	183.14	192.50	199.25	203.30	214.60	212.00	202.00	169.95	173.50
- STD. DEV.	0.00	9.97	11.04	11.68	11.38	9.60	10.81	5.27	5.66	0.00	17.02	16.37
WEIGHT - MEAN(gm)	0.00	46.72	73.11	89.75	105.39	118.08	126.47	143.20	151.50	131.00	70.35	75.79
- STD. DEV.	0.00	10.69	17.06	18.79	27.29	16.91	24.72	29.25	7.78	0.00	27.96	26.44

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	15	70	9	266	216	110	2	1	1	
% AT STAGE	2.17	10.14	1.30	38.55	31.30	15.94	0.29	0.14	0.14	

ROE MATURITY (FEMALE):

	SEX RATIO:					MALE	FEMALE	IMMATURE	TOTAL	
	IMMATURE	MATURE	SPENT	TOTAL						
NO.	176	177	1	354		NO.	268	354	68	690
%	49.72	50.00	0.28	100.00		%	38.84	51.30	9.86	100.00
% SAMPLE WEIGHT	9.79	12.87	0.06	22.72		MEAN WEIGHT	76.25	81.80	42.68	75.79
						% SAMP. WT.	39.08	55.37	5.55	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 102 - TAKUSH HARBOUR  
 SAMPLE NUMBERS: 106,334  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 25/92 - MAR 30/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	5	55	20	5	5	7	0	0	0	103	200
% AT AGE	0.00	5.15	56.70	20.62	5.15	5.15	7.22	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	148.60	166.11	170.50	177.60	181.60	186.86	0.00	0.00	0.00	173.71	171.43
- STD. DEV.	0.00	6.58	11.62	14.13	12.97	10.36	7.52	0.00	0.00	0.00	18.09	16.35
WEIGHT - MEAN(gm)	0.00	42.40	66.02	75.60	81.20	89.80	96.14	0.00	0.00	0.00	80.31	75.78
- STD. DEV.	0.00	4.88	16.89	22.37	22.15	15.17	10.79	0.00	0.00	0.00	29.87	26.19

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## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	5	163	32	0	0	0	
% AT STAGE	0.00	0.00	0.00	2.50	81.50	16.00	0.00	0.00	0.00	

## ROE MATURITY (FEMALE):

						SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	0	104	0	104		NO.	96	104	0	200
%	0.00	100.00	0.00	100.00		%	48.00	52.00	0.00	100.00
% SAMPLE WEIGHT	0.00	25.88	0.00	25.88		MEAN WEIGHT	72.67	78.64	0.00	75.78
						% SAMP. WT.	46.03	53.97	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 142 - BAYNES SOUND  
 SAMPLE NUMBERS: 50, 23, 29, 20, 12, 15, 3, 24, 46, 26,  
                   16, 44, 25, 22, 18, 28, 48, 9, 11, 13, 41  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 3/92 - MAR 12/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	88	1034	276	344	67	109	11	5	0	166	2100
% AT AGE	0.00	4.55	53.46	14.27	17.79	3.46	5.64	0.57	0.26	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.45	186.33	197.25	206.67	211.88	218.16	223.45	229.20	0.00	192.51	193.43
- STD. DEV.	0.00	11.63	10.90	10.16	10.51	9.72	11.08	11.85	7.60	0.00	17.31	16.44
WEIGHT - MEAN(gm)	0.00	60.85	91.12	112.83	134.63	146.60	162.86	173.82	181.40	0.00	106.59	107.20
- STD. DEV.	0.00	13.88	17.72	20.63	24.43	24.02	28.54	41.22	25.34	0.00	33.45	32.64

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	6	5	244	1609	230	4	1	0
% AT STAGE	0.05	0.29	0.24	11.62	76.62	10.95	0.19	0.05	0.00

ROE MATURITY (FEMALE):

	SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL	MALE	FEMALE	IMMATURE	TOTAL	
NO.	133	933	2	1068	NO.	1031	1068	1	2100
%	12.45	87.36	0.19	100.00	%	49.10	50.86	0.05	100.00
% SAMPLE WEIGHT	2.01	23.99	0.01	26.01	MEAN WEIGHT	102.14	112.09	88.00	107.20
					% SAMP. WT.	46.78	53.18	0.04	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 143 - QUALICUM  
 SAMPLE NUMBERS: 360, 10, 1, 6, 14  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 27/92 - MAR 16/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	38	285	54	49	12	17	0	1	0	44	500
% AT AGE	0.00	8.33	62.50	11.84	10.75	2.63	3.73	0.00	0.22	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.05	182.35	194.98	205.88	214.50	219.71	0.00	232.00	0.00	187.34	187.21
- STD. DEV.	0.00	13.37	12.43	12.48	8.19	10.36	8.72	0.00	0.00	0.00	18.22	17.63
WEIGHT - MEAN(gm)	0.00	58.13	81.11	103.00	124.69	146.33	158.35	0.00	192.00	0.00	92.00	91.37
- STD. DEV.	0.00	15.40	18.00	21.93	23.64	20.90	28.92	0.00	0.00	0.00	33.07	30.84

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	7	0	89	307	7	90	0	0
% AT STAGE	0.00	1.40	0.00	17.80	61.40	1.40	18.00	0.00	0.00

ROE MATURITY (FEMALE):

	SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL	
NO.	47	168	40	255	
%	18.43	65.88	15.69	100.00	
% SAMPLE WEIGHT	2.80	17.66	0.00	20.46	
					NO.
					%
					232
					51.00
					2.60
					100.00
					MEAN WEIGHT
					89.46
					94.49
					64.31
					91.37
					% SAMP. WT.
					45.43
					52.74
					1.83
					100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 152 - POWELL RIVER  
 SAMPLE NUMBERS: 153,158,157,346  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 23/92 - FEB 28/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	1	201	53	92	8	28	1	2	0	14	400
% AT AGE	0.00	0.26	52.07	13.73	23.83	2.07	7.25	0.26	0.52	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	150.00	179.15	190.13	196.41	208.50	206.89	214.00	223.00	0.00	190.14	187.73
- STD. DEV.	0.00	0.00	9.58	9.94	9.08	7.63	10.30	0.00	1.41	0.00	16.95	14.02
WEIGHT - MEAN(gm)	0.00	52.00	78.49	95.62	107.00	130.50	128.61	139.00	177.00	0.00	96.36	93.07
- STD. DEV.	0.00	0.00	13.64	17.41	16.05	22.30	21.47	0.00	28.28	0.00	22.89	23.77

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	2	0	292	94	9	1	0	1	
% AT STAGE	0.25	0.50	0.00	73.00	23.50	2.25	0.25	0.00	0.25	

ROE MATURITY (FEMALE):

	SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	195	45	0	240		156	240	4	400
%	81.25	18.75	0.00	100.00		39.00	60.00	1.00	100.00
% SAMPLE WEIGHT	16.00	3.81	0.00	19.81		92.29	94.09	62.25	93.07
					MEAN WEIGHT	92.29	94.09	62.25	93.07
					% SAMP. WT.	38.67	60.66	0.67	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 172 - NANOOSE BAY  
 SAMPLE NUMBERS: 323, 4  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 24/92 - MAR 6/92

SPECIMENS AT EACH AGE:

	AGE												
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL	
NO. AT AGE	0	15	129	18	19	2	3	0	0	1	13	200	
% AT AGE	0.00	8.02	68.98	9.63	10.16	1.07	1.60	0.00	0.00	0.53	0.00	100.00	
LENGTH - MEAN(mm)	0.00	158.60	184.22	199.33	207.32	212.50	219.00	0.00	0.00	235.00	180.08	186.65	
- STD. DEV.	0.00	14.83	12.62	11.60	7.01	3.54	7.55	0.00	0.00	0.00	23.58	17.98	
WEIGHT - MEAN(gm)	0.00	57.60	85.02	113.89	135.42	131.00	165.67	0.00	0.00	198.00	83.92	92.51	
- STD. DEV.	0.00	20.38	19.26	27.22	21.01	11.31	10.69	0.00	0.00	0.00	40.44	31.20	

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	3	1	63	132	0	0	0	1	
% AT STAGE	0.00	1.50	0.50	31.50	66.00	0.00	0.00	0.00	0.50	

ROE MATURITY (FEMALE):

	SEX RATIO:					MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.				
NO.	39	55	0	94		105	94	1	200
%	41.49	58.51	0.00	100.00		52.50	47.00	0.50	100.00
% SAMPLE WEIGHT	6.49	17.46	0.00	23.96		88.63	97.52	30.00	92.51
					MEAN WEIGHT				
					% SAMP. WT.	50.29	49.54	0.16	100.00

Table 13 (Cont'd.). Pre-fishery charter sample summaries by section.

SECTION: 173 - YELLOW POINT  
SAMPLE NUMBERS: 36,160, 17, 37, 47, 19,339,328, 30, 2,  
                  38,161, 21,353  
SOURCE: PRE-FISHERY CHARTER  
GEAR: HERRING SEINE  
DATE: FEB 25/92 - MAR 19/92

SPECIMENS AT EACH AGE:

SPECIMENS AT EACH AGE:											AGE	
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	86	109	641	142	192	40	62	13	2	0	112	1399
% AT AGE	6.68	8.47	49.81	11.03	14.92	3.11	4.82	1.01	0.16	0.00	0.00	100.00
LENGTH - MEAN(mm)	94.67	161.86	183.95	196.15	208.64	215.43	220.48	227.38	220.00	0.00	180.39	184.06
- STD. DEV.	6.82	11.98	12.97	9.87	9.90	11.37	9.45	7.11	7.07	0.00	36.81	31.06
WEIGHT - MEAN(gm)	9.66	58.07	88.83	111.74	137.77	153.70	163.50	179.62	160.00	0.00	95.37	97.24
- STD. DEV.	2.44	14.07	19.81	20.08	23.30	25.66	23.58	22.57	12.73	0.00	49.10	42.12

#### HJORT Maturity Stages:

HJORT MATURITY STAGES:			MATURITY STAGE								
			1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	42	36	2	314	787	112	75	1	30		
% AT STAGE	3.00	2.57	0.14	22.44	56.25	8.01	5.36	0.07	2.14		

**ROE MATURITY (FEMALE):**

ROE MATURITY (FEMALE):					SEX RATIO:				
					=====				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	171	396	28	595	NO.	703	595	101	1399
%	28.74	66.55	4.71	100.00	%	50.25	42.53	7.22	100.00
% SAMPLE WEIGHT	5.96	18.69	0.00	24.65	MEAN WEIGHT	99.01	109.30	13.96	97.24
					% SAMP. WT.	51.16	47.80	1.04	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 232 - MACOAH PASS  
 SAMPLE NUMBERS: 348, 329, 31, 365, 69, 39, 319, 32, 59, 358,  
                   43, 34, 57, 42, 370, 335, 322, 367, 321, 347,  
                   326, 356, 352, 8, 7, 5, 33, 338, 53, 45, 40  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 20/92 - MAR 17/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	44	1229	298	394	182	509	65	39	9	285	3054
% AT AGE	0.00	1.59	44.38	10.76	14.23	6.57	18.38	2.35	1.41	0.33	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.02	188.01	201.22	211.59	219.00	223.54	227.55	231.38	231.89	201.47	202.59
- STD. DEV.	0.00	8.31	11.81	10.07	8.27	9.10	8.69	9.45	10.20	6.23	20.26	19.10
WEIGHT - MEAN(gm)	0.00	70.18	102.79	126.51	149.50	163.93	176.99	188.98	192.74	201.22	130.64	132.54
- STD. DEV.	0.00	11.83	22.06	22.94	21.65	23.23	24.56	26.81	26.44	27.72	41.11	39.93

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	2	1	7	345	1971	625	102	0	1	
% AT STAGE	0.07	0.03	0.23	11.30	64.54	20.46	3.34	0.00	0.03	

ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL	MALE	FEMALE	IMMATURE	TOTAL	
NO.	219	1356	8	1583	NO.	1468	1583	3	3054
%	13.83	85.66	0.51	100.00	%	48.07	51.83	0.10	100.00
% SAMPLE WEIGHT	3.11	25.06	0.00	28.18	MEAN WEIGHT	124.09	140.39	130.00	132.54
					% SAMP. WT.	45.00	54.90	0.10	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

===== SECTION: 233 - IMPERIAL EAGLE CH.

SAMPLE NUMBERS: 344,345

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 28/92 - FEB 29/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	55	26	41	12	39	4	2	1	14	194
% AT AGE	0.00	0.00	30.56	14.44	22.78	6.67	21.67	2.22	1.11	0.56	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	190.33	203.38	213.05	220.08	223.54	229.25	229.50	243.00	207.07	208.08
- STD. DEV.	0.00	0.00	8.91	8.58	7.36	8.08	8.93	6.75	17.68	0.00	18.22	16.21
WEIGHT - MEAN(gm)	0.00	0.00	108.31	125.96	153.00	174.17	174.38	201.75	195.00	209.00	134.57	142.71
- STD. DEV.	0.00	0.00	13.67	17.87	18.28	16.29	22.60	17.76	57.98	0.00	39.54	34.58
												182
												1

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	3	143	42	6	0	0	
% AT STAGE	0.00	0.00	0.00	1.55	73.71	21.65	3.09	0.00	0.00	

ROE MATURITY (FEMALE):

					SEX RATIO:					
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	3	89	0	92		102	92	0	194	
%	3.26	96.74	0.00	100.00		52.58	47.42	0.00	100.00	
% SAMPLE WEIGHT	0.65	29.20	0.00	29.84		MEAN WEIGHT	136.19	149.95	0.00	142.71
						% SAMP. WT.	50.17	49.83	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 242 - HESQUIAT HARBOUR  
 SAMPLE NUMBERS: 349, 27  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 27/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	0	36	13	19	11	36	0	3	0	11	129
% AT AGE	0.00	0.00	30.51	11.02	16.10	9.32	30.51	0.00	2.54	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	185.69	201.15	215.26	217.82	223.50	0.00	228.00	0.00	205.55	207.57
- STD. DEV.	0.00	0.00	9.16	10.18	6.08	6.38	7.81	0.00	9.17	0.00	24.08	18.50
WEIGHT - MEAN(gm)	0.00	0.00	102.67	132.69	163.26	181.09	185.58	0.00	195.00	0.00	150.18	150.64
- STD. DEV.	0.00	0.00	17.90	19.94	15.52	21.20	23.27	0.00	32.19	0.00	51.27	41.67
												183

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	4	114	10	1	0	0	
% AT STAGE	0.00	0.00	0.00	3.10	88.37	7.75	0.78	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:					MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.				
NO.	2	62	0	64					
%	3.13	96.88	0.00	100.00					
% SAMPLE WEIGHT	0.96	29.54	0.00	30.50					
					NO.	65	64	0	129
					%	50.39	49.61	0.00	100.00
					MEAN WEIGHT	137.45	164.05	0.00	150.64
					% SAMP. WT.	45.97	54.03	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 243 - SYDNEY INLET  
 SAMPLE NUMBERS: 49, 35,341,318  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 22/92 - FEB 29/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	4	136	42	48	24	87	11	10	1	16	379
% AT AGE	0.00	1.10	37.47	11.57	13.22	6.61	23.97	3.03	2.75	0.28	0.00	100.00
LENGTH - MEAN(mm)	0.00	157.00	187.99	203.38	211.15	221.38	225.97	229.45	240.40	230.00	206.50	206.61
- STD. DEV.	0.00	10.74	11.00	10.02	7.51	7.49	7.94	5.80	8.09	0.00	21.30	20.04
WEIGHT - MEAN(gm)	0.00	53.50	100.99	129.00	147.17	167.46	185.30	186.45	213.70	211.00	141.06	140.44
- STD. DEV.	0.00	14.71	18.54	21.75	20.95	14.32	22.61	20.26	24.40	0.00	47.26	43.12

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## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	86	242	51	0	0	0	
% AT STAGE	0.00	0.00	0.00	22.69	63.85	13.46	0.00	0.00	0.00	

## ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%	MEAN WEIGHT	% SAMP. WT.				
NO.	66	134	0	200					179	200	0	379
%	33.00	67.00	0.00	100.00					47.23	52.77	0.00	100.00
% SAMPLE WEIGHT	6.53	20.92	0.00	27.45								

NO.	179	200	0	379
%	47.23	52.77	0.00	100.00
MEAN WEIGHT	135.89	144.51	0.00	140.44
% SAMP. WT.	45.70	54.30	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 244 - MILLER CHANNEL  
 SAMPLE NUMBERS: 58, 54  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 14/92 - MAR 16/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	6	59	23	26	13	28	3	1	0	7	166
% AT AGE	0.00	3.77	37.11	14.47	16.35	8.18	17.61	1.89	0.63	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.67	186.95	202.83	213.19	216.38	223.61	224.67	228.00	0.00	206.29	202.54
- STD. DEV.	0.00	6.98	9.74	8.17	6.65	8.11	7.95	4.93	0.00	0.00	18.83	18.74
WEIGHT - MEAN(gm)	0.00	63.50	100.47	130.74	150.15	156.69	183.68	197.00	193.00	0.00	133.00	133.22
- STD. DEV.	0.00	9.93	17.69	22.78	21.10	18.83	27.17	27.78	0.00	0.00	40.75	40.54

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	1	44	107	14	0	0	
% AT STAGE	0.00	0.00	0.00	0.60	26.51	64.46	8.43	0.00	0.00	

ROE MATURITY (FEMALE):

						SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	1	69	4	74		NO.	92	74	0	166
%	1.35	93.24	5.41	100.00		%	55.42	44.58	0.00	100.00
% SAMPLE WEIGHT	0.23	26.99	0.30	27.51		MEAN WEIGHT	124.59	143.96	0.00	133.22
						% SAMP. WT.	51.83	48.17	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 245 - VARGAS ISLAND  
 SAMPLE NUMBERS: 61,107  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 17/92 - MAR 18/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	2	71	19	34	13	34	4	1	0	11	189
% AT AGE	0.00	1.12	39.89	10.67	19.10	7.30	19.10	2.25	0.56	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.00	188.58	202.42	214.12	221.15	226.71	217.00	232.00	0.00	200.64	204.97
- STD. DEV.	0.00	7.07	10.85	7.93	8.59	6.73	7.70	11.22	0.00	0.00	38.62	20.05
WEIGHT - MEAN(gm)	0.00	76.00	102.37	124.84	152.47	167.69	173.03	165.25	184.00	0.00	134.73	134.21
- STD. DEV.	0.00	2.83	19.36	19.48	20.99	18.67	26.19	36.82	0.00	0.00	70.10	39.38
												186
												1

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	13	125	48	1	0	2	
% AT STAGE	0.00	0.00	0.00	6.88	66.14	25.40	0.53	0.00	1.06	

ROE MATURITY (FEMALE):

					SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	1	93	0	94				93	94
%	1.06	98.94	0.00	100.00				49.21	49.74
% SAMPLE WEIGHT	0.15	29.67	0.00	29.82				1.06	100.00
					MEAN WEIGHT	129.48	140.97	36.50	134.21
					% SAMP. WT.	47.47	52.24	0.29	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 252 - NOOTKA SOUND  
 SAMPLE NUMBERS: 331, 63, 51, 56  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 27/92 - MAR 15/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	11	308	27	15	5	12	3	1	0	18	400
% AT AGE	0.00	2.88	80.63	7.07	3.93	1.31	3.14	0.79	0.26	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.00	184.51	196.74	210.80	217.80	217.08	232.00	225.00	0.00	183.44	187.51
- STD. DEV.	0.00	5.74	9.52	10.76	6.65	9.83	14.53	2.65	0.00	0.00	23.58	14.77
WEIGHT - MEAN(gm)	0.00	67.09	98.46	120.96	150.33	158.00	172.67	193.33	214.00	0.00	98.61	105.04
- STD. DEV.	0.00	9.68	16.93	19.66	22.11	13.62	33.34	30.99	0.00	0.00	38.08	28.19

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HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	34	299	61	6	0	0	
% AT STAGE	0.00	0.00	0.00	8.50	74.75	15.25	1.50	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL	MALE	FEMALE	IMMATURE	TOTAL	
NO.	27	186	2	215	NO.	185	215	0	400
%	12.56	86.51	0.93	100.00	%	46.25	53.75	0.00	100.00
% SAMPLE WEIGHT	2.28	23.13	0.00	25.41	MEAN WEIGHT	99.53	109.79	0.00	105.04
					% SAMP. WT.	43.82	56.18	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 253 - ESPERANZA INLET  
 SAMPLE NUMBERS: 62, 55, 70, 64, 67  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 26/92 - MAR 21/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	11	393	44	19	10	7	1	2	1	12	500
% AT AGE	0.00	2.25	80.53	9.02	3.89	2.05	1.43	0.20	0.41	0.20	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.45	185.68	198.66	211.53	221.10	225.43	242.00	242.50	237.00	189.00	189.15
- STD. DEV.	0.00	10.11	9.91	9.02	8.40	11.93	10.23	0.00	0.71	0.00	24.95	14.69
WEIGHT - MEAN(gm)	0.00	68.27	99.24	121.41	149.84	173.50	192.57	256.00	248.00	228.00	113.25	106.73
- STD. DEV.	0.00	11.25	17.57	16.73	21.85	39.57	28.32	0.00	14.14	0.00	61.03	30.35

HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	0	0	0	58	371	69	2	0	0	
% AT STAGE	0.00	0.00	0.00	11.60	74.20	13.80	0.40	0.00	0.00	

ROE MATURITY (FEMALE):

	SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	42	224	0	266		234	266	0	500
%	15.79	84.21	0.00	100.00		46.80	53.20	0.00	100.00
% SAMPLE WEIGHT	3.12	23.66	0.00	26.78		100.18	112.49	0.00	106.73
					MEAN WEIGHT				
					% SAMP. WT.	43.93	56.07	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 261 - OTHER AREA 26  
 SAMPLE NUMBERS: 117  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: MAR 1/92

SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	8	73	7	1	0	1	0	2	2	6	100
% AT AGE	0.00	8.51	77.66	7.45	1.06	0.00	1.06	0.00	2.13	2.13	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.00	186.82	199.71	220.00	0.00	241.00	0.00	248.00	251.00	179.33	188.43
- STD. DEV.	0.00	8.96	8.36	12.53	0.00	0.00	0.00	0.00	4.24	7.07	36.74	20.24
WEIGHT - MEAN(gm)	0.00	50.88	95.44	117.43	200.00	0.00	249.00	0.00	244.50	281.50	94.50	102.64
- STD. DEV.	0.00	6.71	14.79	19.33	0.00	0.00	0.00	0.00	10.61	26.16	78.83	46.32

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	2	0	64	30	0	0	0
% AT STAGE	0.00	4.00	2.00	0.00	64.00	30.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE					SEX RATIO:				
	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL	
NO.	4	43	0	47		NO.	52	47	1	100
%	8.51	91.49	0.00	100.00		%	52.00	47.00	1.00	100.00
% SAMPLE WEIGHT	0.00	25.41	0.00	25.41		MEAN WEIGHT	96.87	110.13	51.00	102.64
						% SAMP. WT.	49.07	50.43	0.50	100.00

Table 13 (Cont'd.). Pre-fishery charter sample summaries by section.

SECTION: 263 - CHECLESET BAY  
SAMPLE NUMBERS: 52  
SOURCE: PRE-FISHERY CHARTER  
GEAR: HERRING SEINE  
DATE: MAR 14/92

SPECIMENS AT EACH AGE:

AGE

	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	2	55	8	6	4	17	3	1	1	3	100
% AT AGE	0.00	2.06	56.70	8.25	6.19	4.12	17.53	3.09	1.03	1.03	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.50	191.53	200.38	220.00	218.75	230.00	227.67	252.00	241.00	173.33	202.65
- STD. DEV.	0.00	12.02	8.10	12.66	9.25	8.54	10.74	12.10	0.00	0.00	8.96	20.50
WEIGHT - MEAN(gm)	0.00	66.00	108.13	127.38	180.17	179.75	217.53	212.67	262.00	236.00	76.33	139.61
- STD. DEV.	0.00	18.38	16.46	28.72	33.78	22.38	31.25	29.87	0.00	0.00	2.08	53.54

#### H-IQBT MATURITY STAGES:

**MATURITY STAGE**

	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	0	3	82	12	2	0	0
% AT STAGE	1.00	0.00	0.00	3.00	82.00	12.00	2.00	0.00	0.00

**BOE MATURITY (FEMALE):**

#### SEX RATIO:

	IMMATURE	MATURE	SPENT	TOTAL		MALE	FEMALE	IMMATURE	TOTAL
NO.	4	62	2	68 <th>NO.</th> <td>32</td> <td>68</td> <td>0</td> <td>100</td>	NO.	32	68	0	100
%	5.88	91.18	2.94	100.00 <th>%</th> <td>32.00</td> <td>68.00</td> <td>0.00</td> <td>100.00</td>	%	32.00	68.00	0.00	100.00
% SAMPLE WEIGHT	0.61	26.36	0.00	26.97 <th>MEAN WEIGHT</th> <td>127.13</td> <td>145.49</td> <td>0.00</td> <td>139.61</td>	MEAN WEIGHT	127.13	145.49	0.00	139.61
					% SAMP. WT.	29.14	70.86	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 272 - BROOKS BAY  
 SAMPLE NUMBERS: 66,340,122,364,120,111,363,116,115  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 28/92 - MAR 15/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	11	561	113	36	27	60	12	16	7	51	894
% AT AGE	0.00	1.30	66.55	13.40	4.27	3.20	7.12	1.42	1.90	0.83	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.64	189.75	203.74	211.69	224.44	228.52	235.42	242.19	247.57	196.55	198.07
- STD. DEV.	0.00	12.12	9.96	9.28	8.86	8.11	11.75	10.97	7.09	6.35	21.92	18.65
WEIGHT - MEAN(gm)	0.00	64.09	109.57	139.99	159.47	194.81	205.57	229.92	235.56	251.14	128.98	129.97
- STD. DEV.	0.00	16.31	19.43	22.13	28.39	33.17	37.41	29.59	29.65	12.59	50.54	44.16

T6  
T91

## HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	27	683	182	2	0	0
% AT STAGE	0.00	0.00	0.00	3.02	76.40	20.36	0.22	0.00	0.00

## ROE MATURITY (FEMALE):

	SEX RATIO:								
	IMMATURE	MATURE	SPENT	TOTAL					
NO.	25	463	2	490	NO.				
%	5.10	94.49	0.41	100.00	%				
% SAMPLE WEIGHT	1.19	27.24	0.05	28.48	MALE	FEMALE	IMMATURE	TOTAL	
					404	490	0	894	
					45.19	54.81	0.00	100.00	
					MEAN WEIGHT	125.69	133.49	0.00	129.97
					% SAMP. WT.	43.70	56.30	0.00	100.00

Table 13 (Cont'd). Pre-fishery charter sample summaries by section.

SECTION: 273 - FORWARD INLET  
 SAMPLE NUMBERS: 118, 123, 65, 68, 139, 60  
 SOURCE: PRE-FISHERY CHARTER  
 GEAR: HERRING SEINE  
 DATE: FEB 26/92 - MAR 13/92

## SPECIMENS AT EACH AGE:

	AGE											
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+	UNKNOWN	TOTAL
NO. AT AGE	0	38	442	45	12	14	11	2	2	0	34	600
% AT AGE	0.00	6.71	78.09	7.95	2.12	2.47	1.94	0.35	0.35	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.79	181.78	194.78	209.58	217.29	227.55	214.00	234.00	0.00	180.74	183.81
- STD. DEV.	0.00	15.16	11.62	13.91	14.07	10.93	14.25	5.66	7.07	0.00	24.54	17.49
WEIGHT - MEAN(gm)	0.00	59.42	92.48	114.60	136.75	157.57	192.55	169.00	225.50	0.00	93.71	97.05
- STD. DEV.	0.00	16.58	19.35	24.90	31.31	31.97	45.17	9.90	19.09	0.00	41.23	31.51

1  
60  
1  
92  
1

## HJORT MATURITY STAGES:

	MATURITY STAGE									
	1	2	3	4	5	6	7	8	UNKNOWN	
NO. AT STAGE	1	1	3	159	339	89	6	2	0	
% AT STAGE	0.17	0.17	0.50	26.50	56.50	14.83	1.00	0.33	0.00	

## ROE MATURITY (FEMALE):

	IMMATURE				SEX RATIO:				MALE	FEMALE	IMMATURE	TOTAL
	IMMATURE	MATURE	SPENT	TOTAL	NO.	%						
NO.	97	212	5	314					285	314	1	600
%	30.89	67.52	1.59	100.00					47.50	52.33	0.17	100.00
% SAMPLE WEIGHT	6.26	19.48	0.00	25.74					88.55	104.93	48.00	97.05
					MEAN WEIGHT							
					% SAMP. WT.				43.34	56.58	0.08	100.00

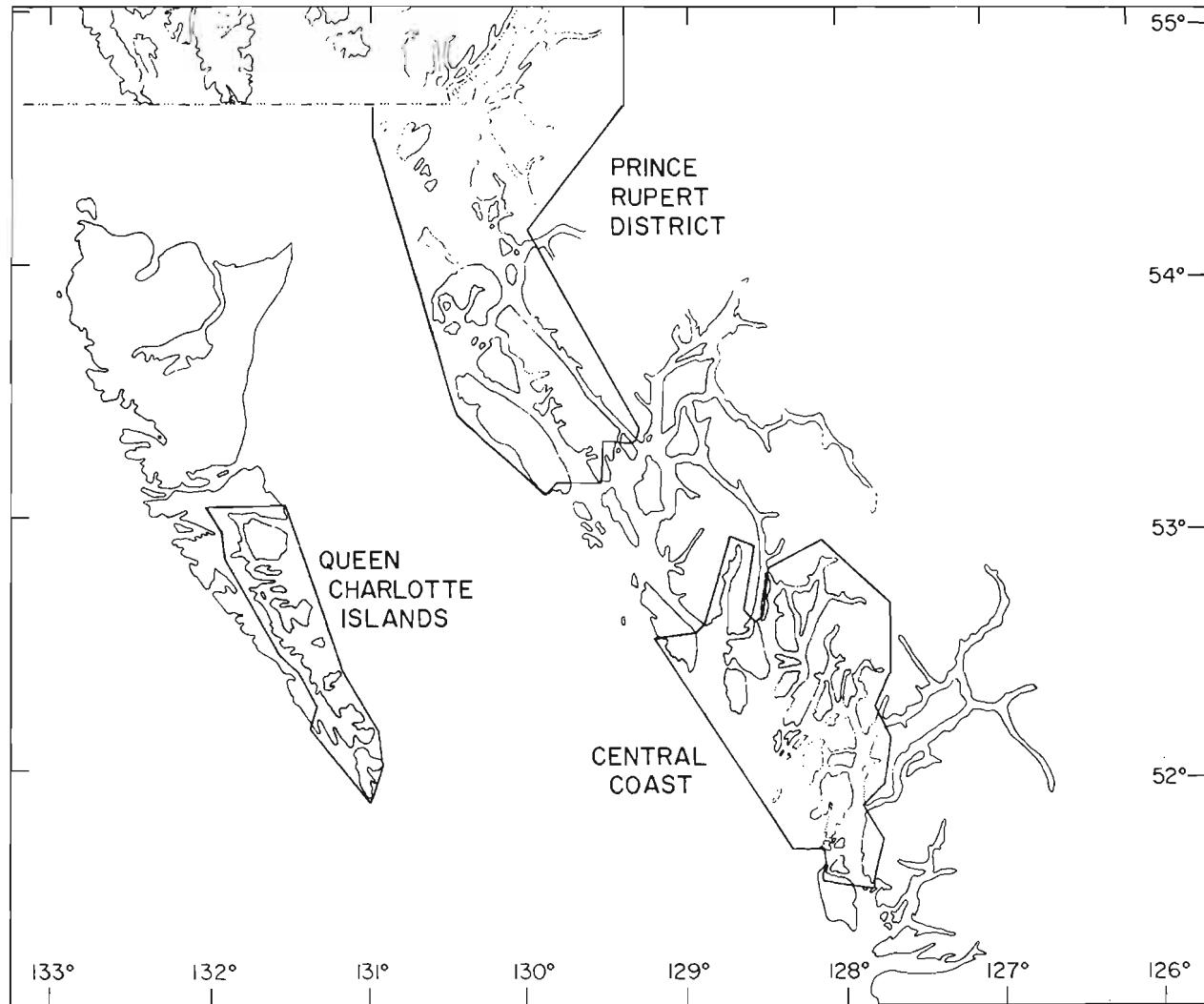


Fig. 1. Stock assessment regions in northern British Columbia.



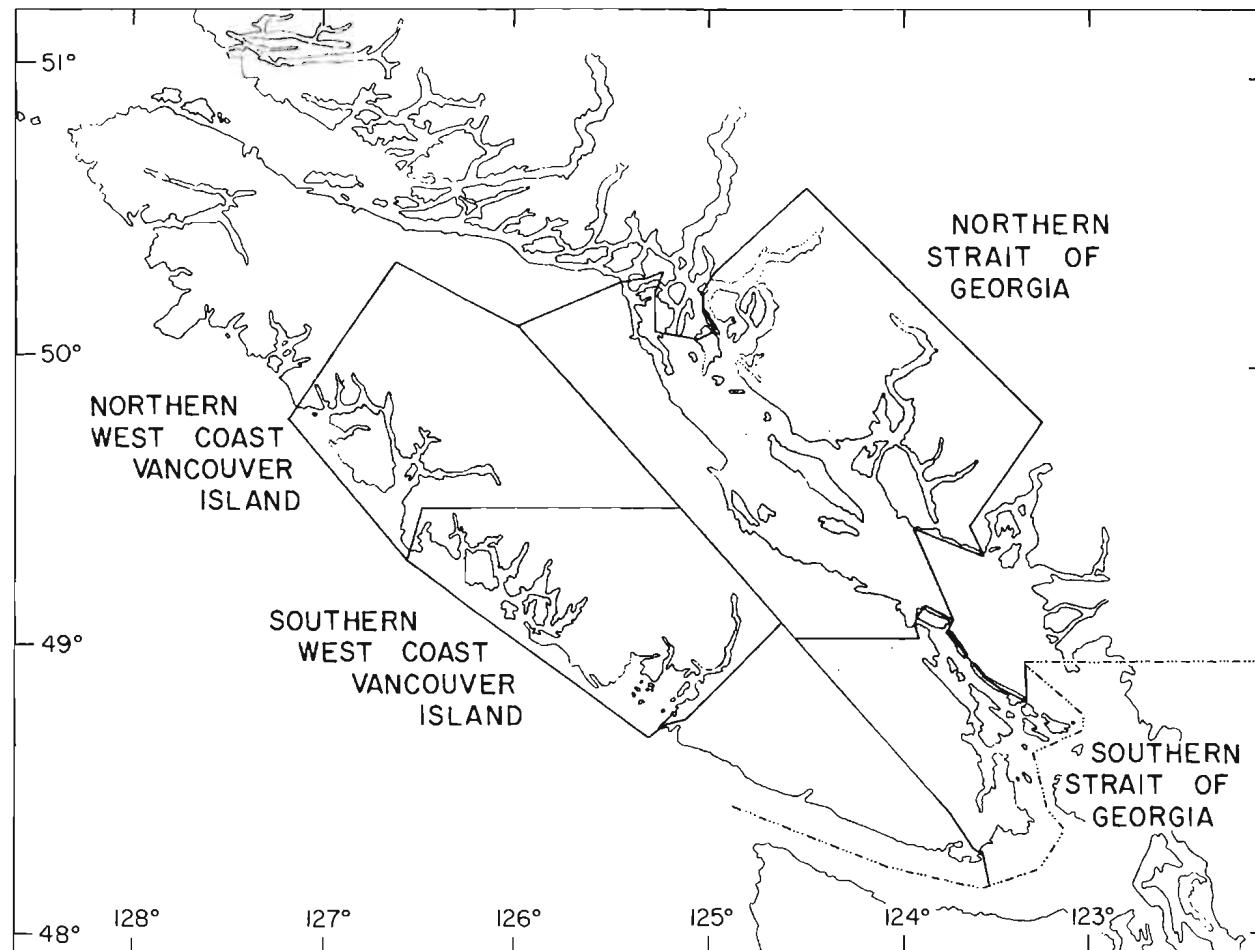


Fig. 2. Stock assessment regions in southern British Columbia.



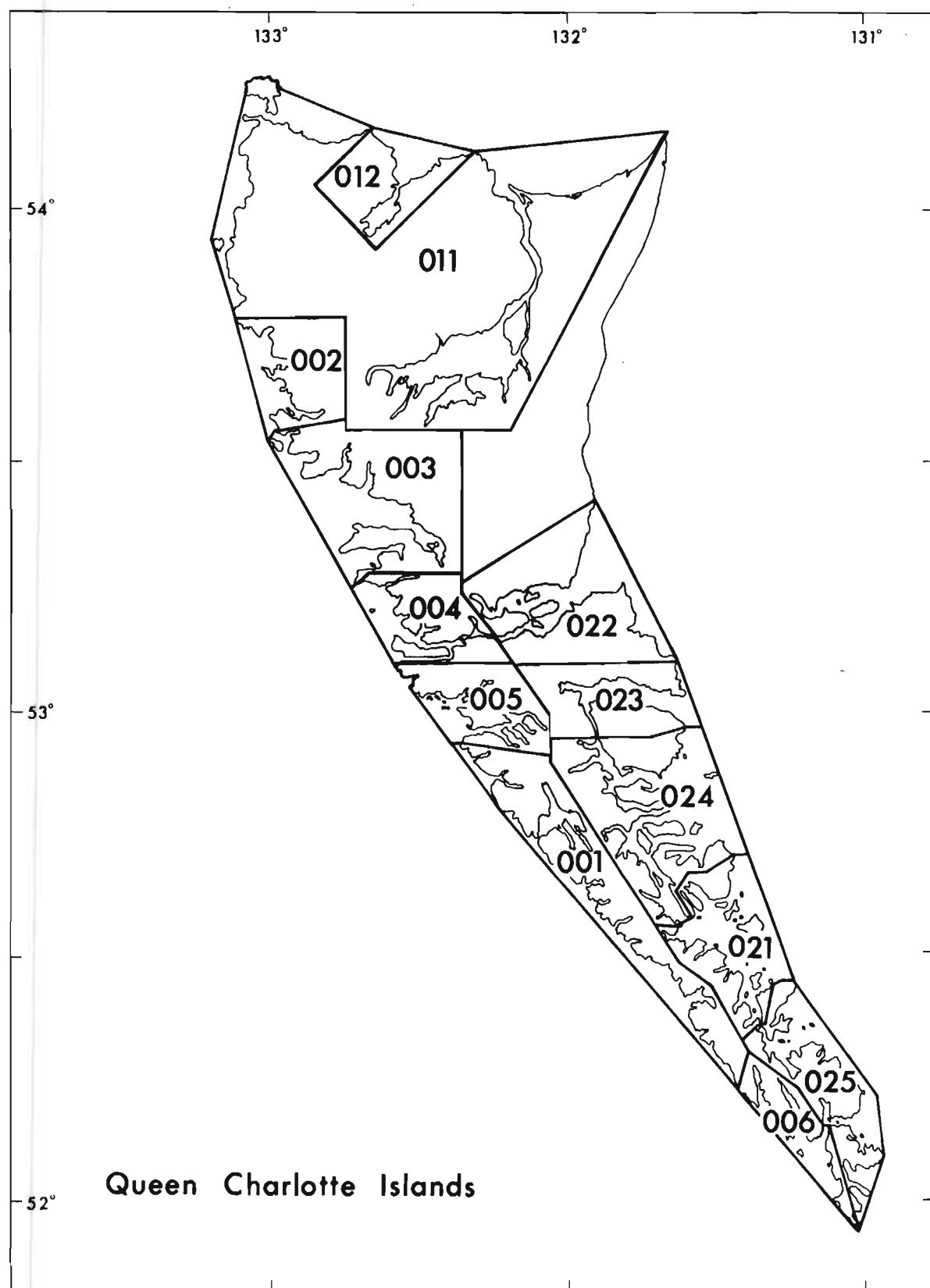


Fig. 3. Herring sections in the Queen Charlotte Islands region.



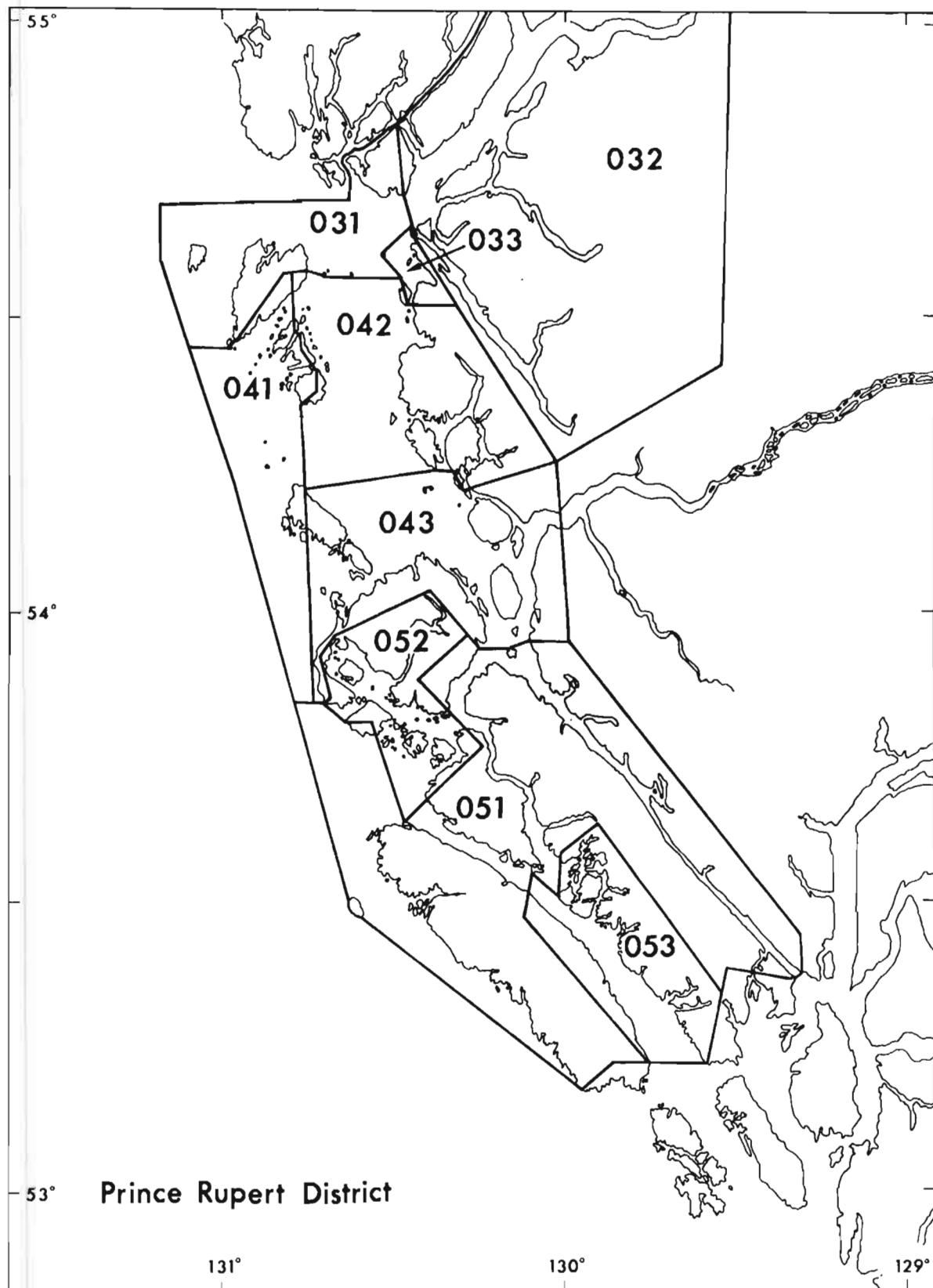
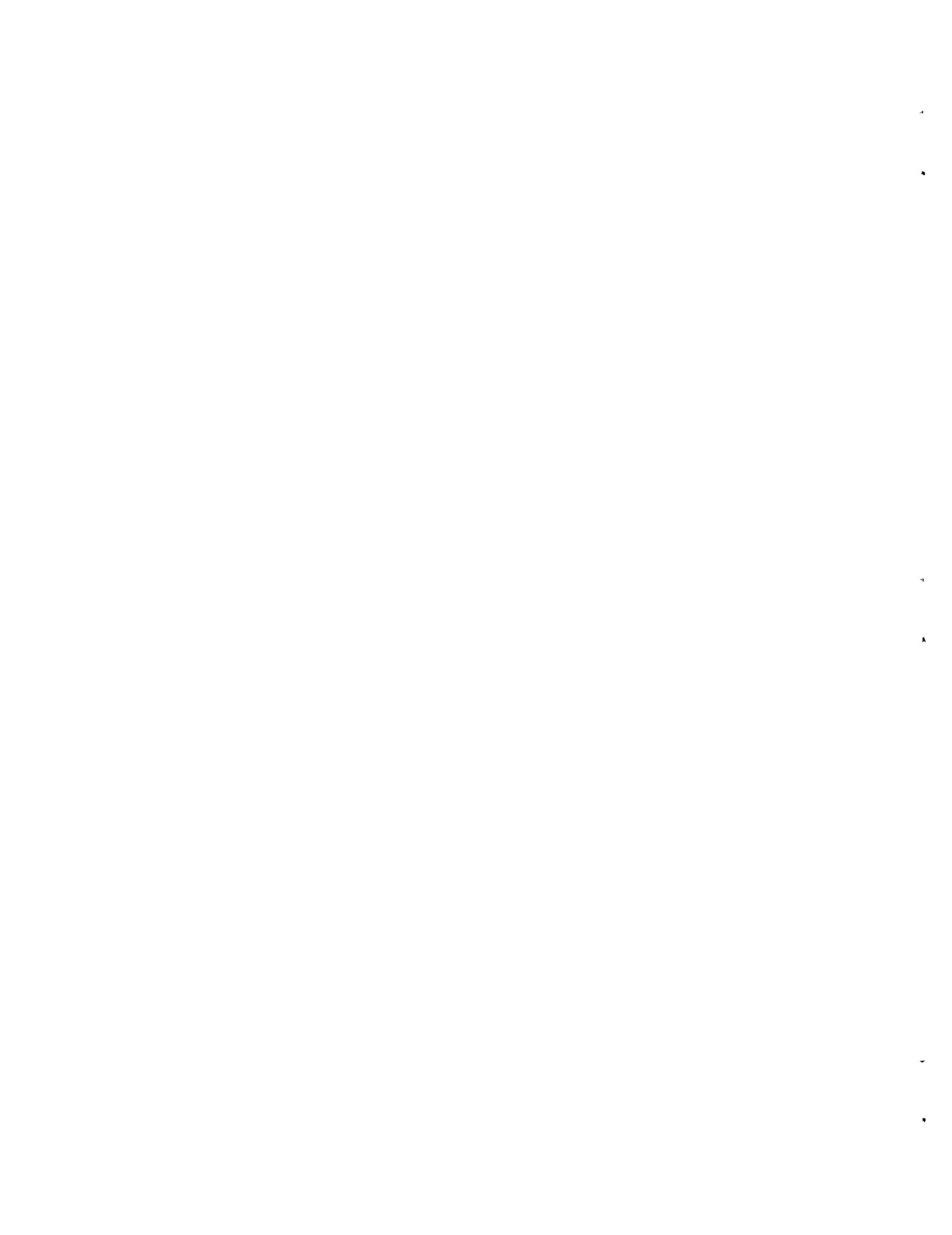


Fig. 4. Herring sections in the Prince Rupert District region.



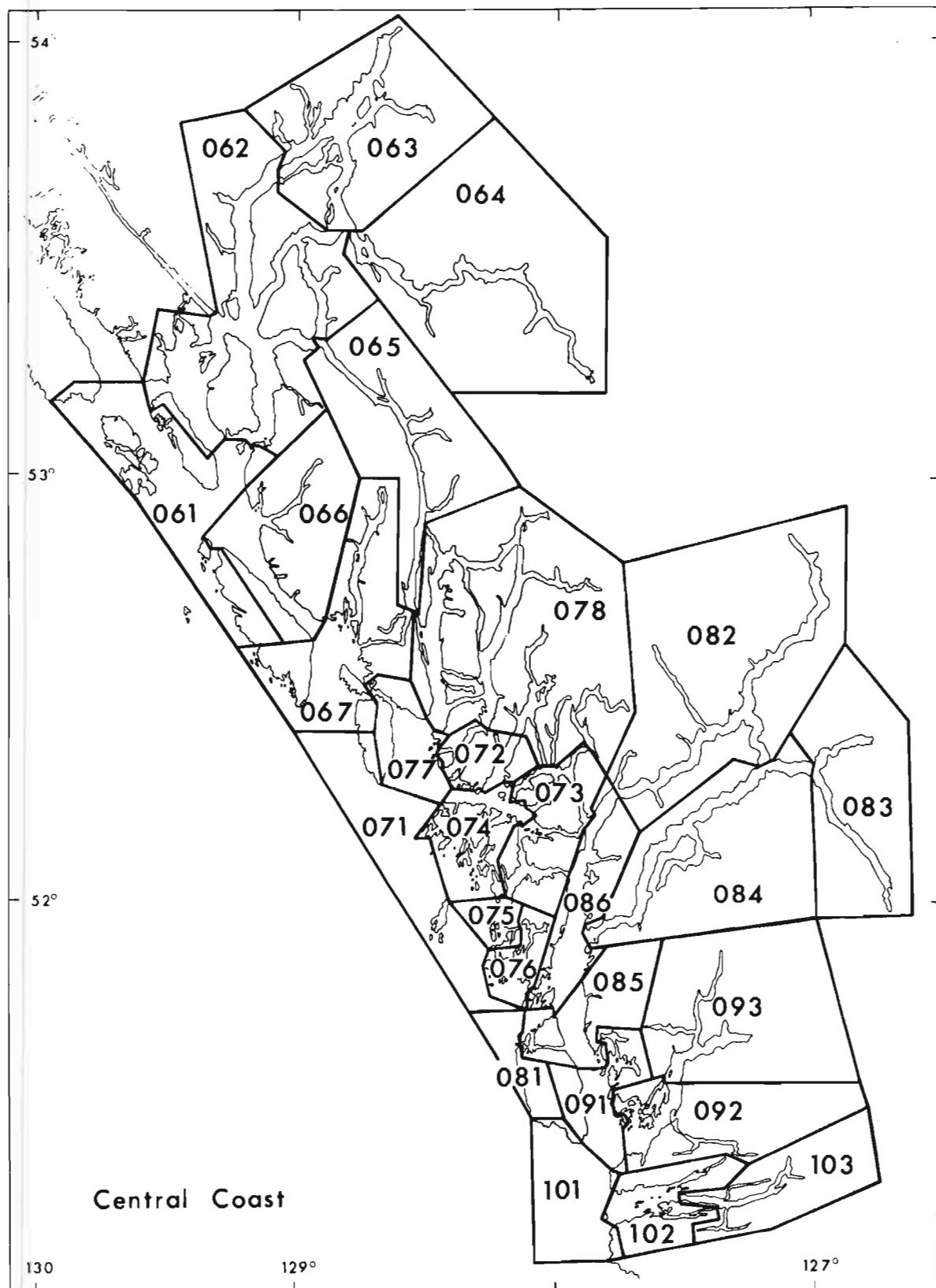


Fig. 5. Herring sections in the Central Coast region.



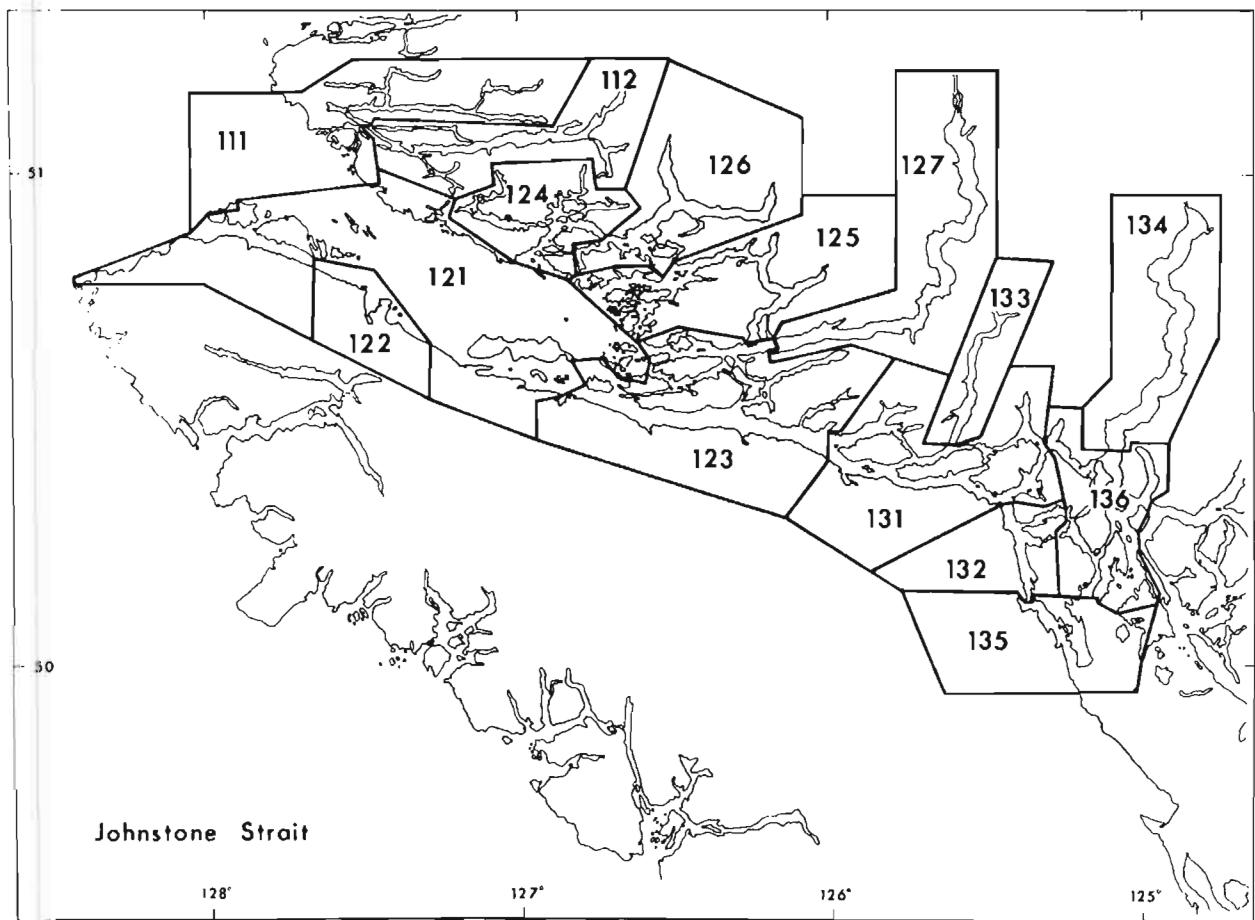
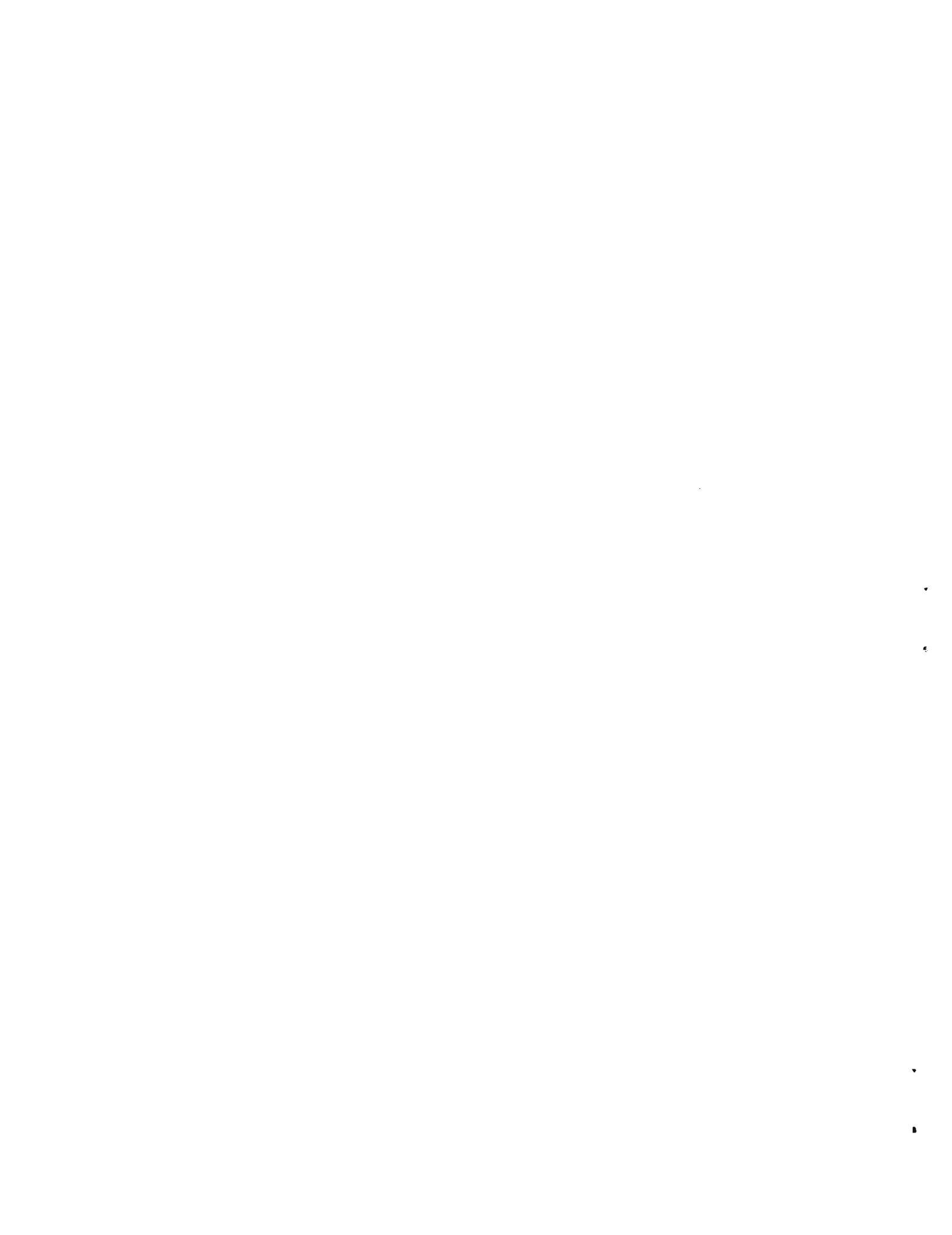


Fig. 6. Herring sections in the Johnstone Strait region.



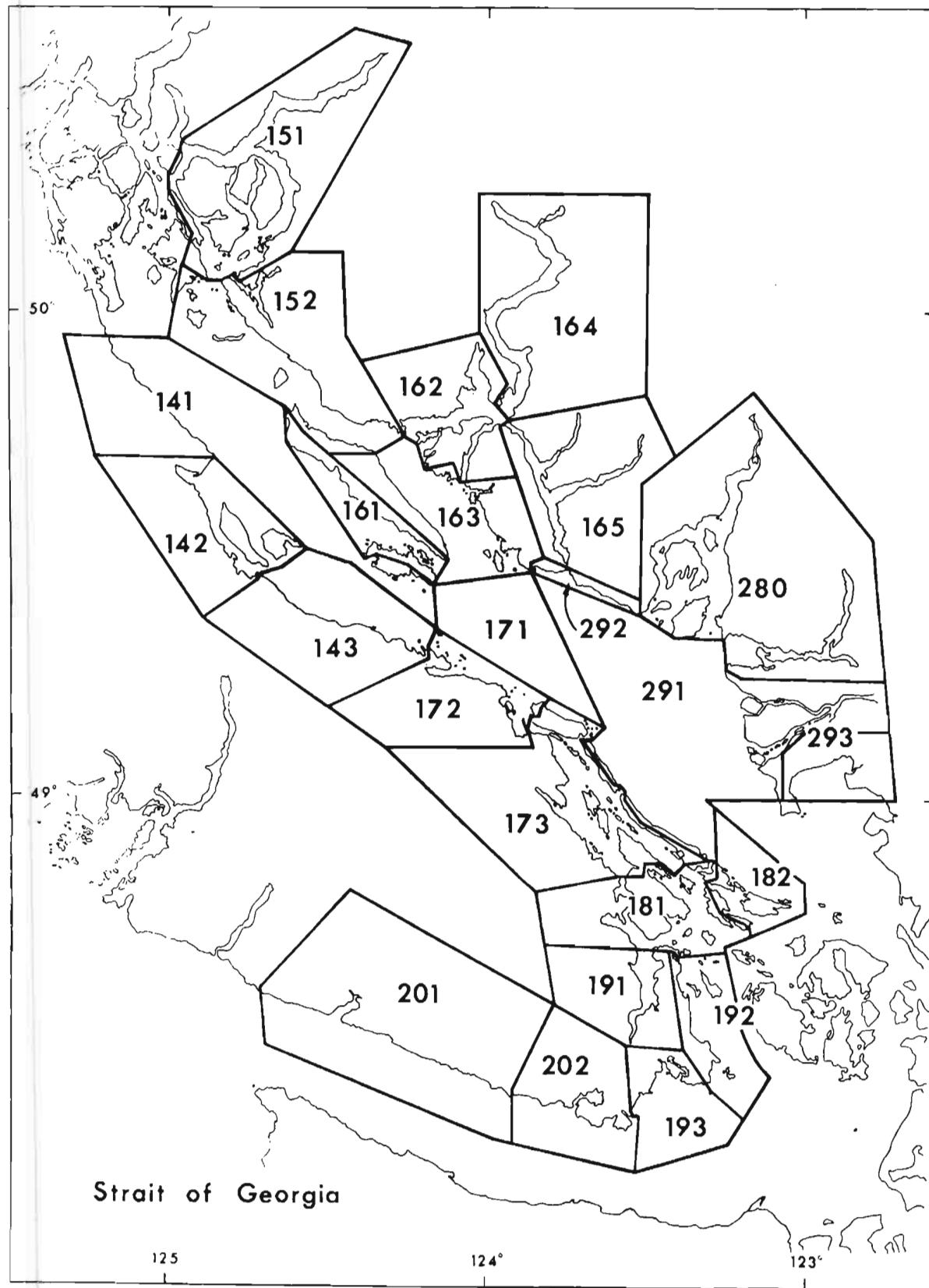
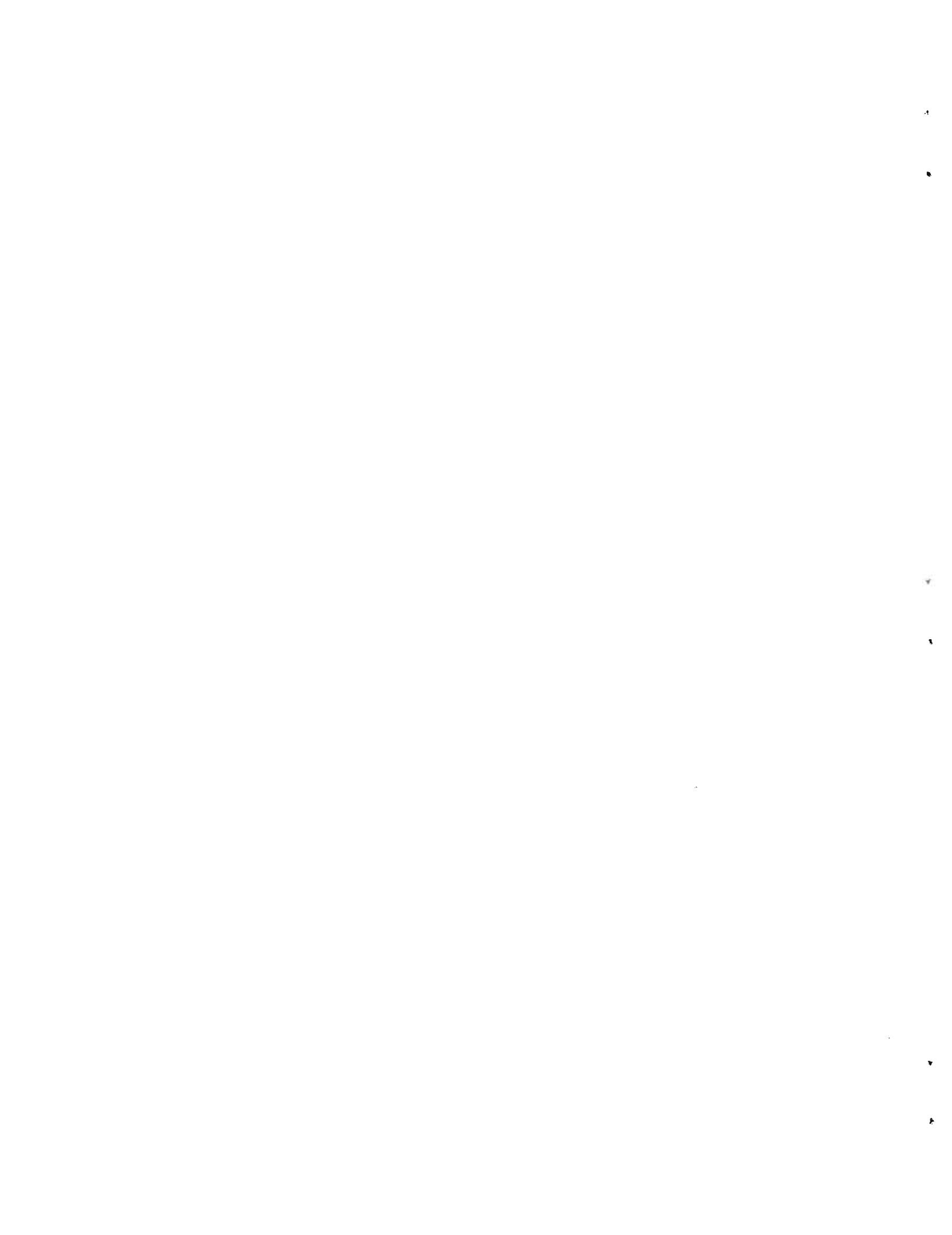


Fig. 7. Herring sections in the Strait of Georgia region.



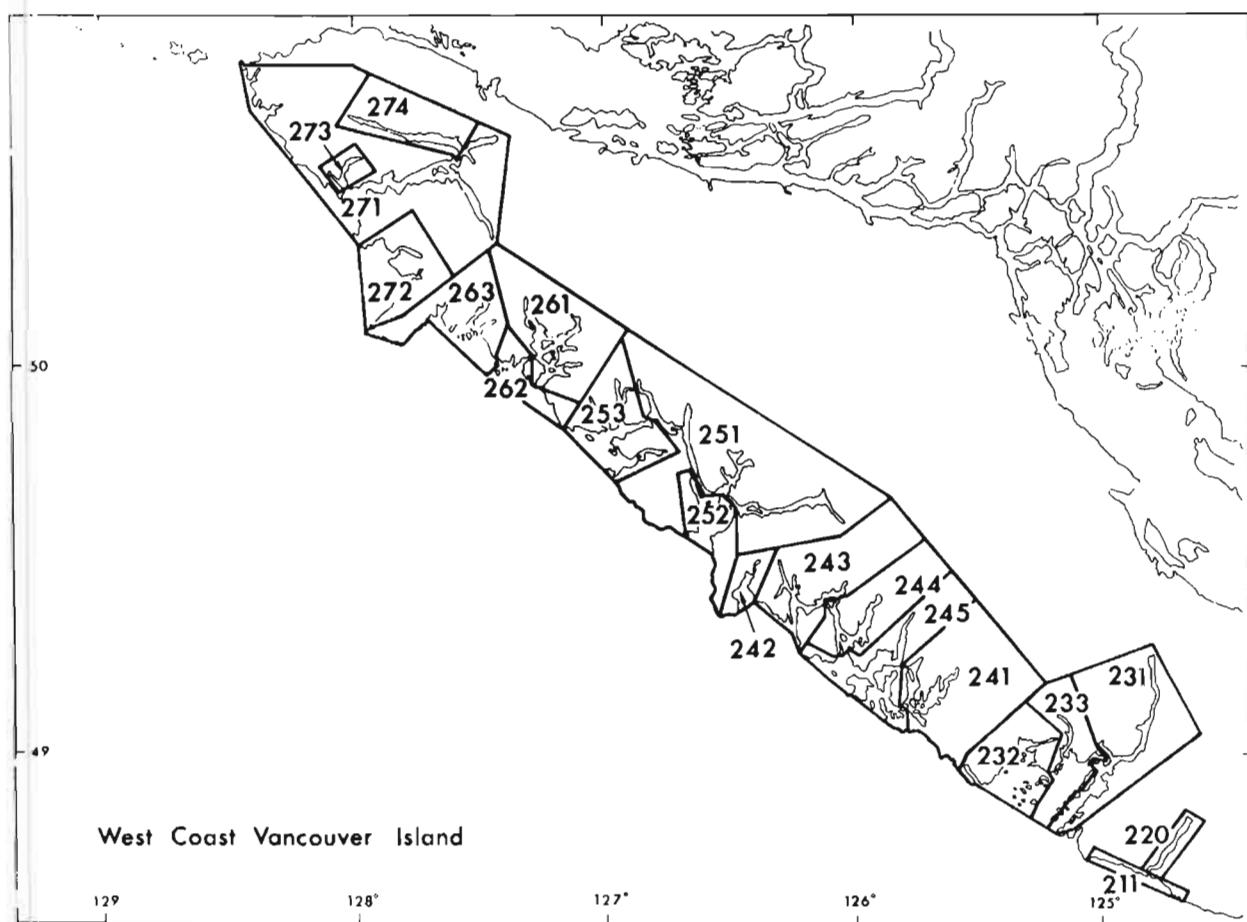


Fig. 8. Herring sections in the west coast of Vancouver Island region.

