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Gillnet Selectivity Data for the British Columbia Herring Roe Fishery in 1976

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Canadian Data Report of Fisheries
and Aquatic Sciences No. 268

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GILLNET SELECTIVITY DATA FOR THE BRITISH COLUMBIA
HERRING ROE FISHERY IN 1976

by

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ABSTRACT

Webb, L. A. 1981. Gillnet selectivity data for the British Columbia herring roe fishery in 1976. Can. Data Rep. Fish. Aquat. Sci. 268: 50 p.

Samples of herring (Clupea harengus pallasii) were collected in Clayoquot Sound during the 1976 roe fishery with 2 1/8 and 2 1/4-in gillnets to evaluate their relative roe yields. For each fish, length, weight, sex, age, and girth were recorded. These data are listed in summary tables.

Key words: Clupea harengus pallasii, gillnet, selectivity.

RESUME

Webb, L. A. 1981. Gillnet selectivity data for the British Columbia herring roe fishery in 1976. Can. Data Rep. Fish. Aquat. Sci. 268: 50 p.

Des échantillons de hareng (Clupea harengus pallasii) ont été prélevés dans la baie Clayoquot pendant la pêche au hareng plein de 1976 avec des filets maillants de 2 1/8 et 2 1/4 pouces, aux fins de l'évaluation de leur production d'oeufs respective. Pour chaque poisson, la longueur, le poids, le sexe, l'âge et le tour de l'abdomen ont été relevés. Ces données sont résumées en tableau.

Mots clés: Clupea harengus pallasii, filet maillant, sélectivité.

INTRODUCTION

In British Columbia, herring gillnet fishermen are restricted to a minimum mesh size of 2 1/4-in stretched measure. Industry requests for a reduction in mesh size from 2 1/4 to 2 1/8 in required the evaluation of the size distribution of herring captured by these two mesh sizes and their respective roe yields. This study was undertaken to provide the data required to determine the relative efficiencies of these two mesh sizes.

MATERIALS AND METHODS

The study was undertaken in 1976 in Area 24, in the Yellow Bank area of Clayoquot Sound. Two gillnet fishermen set 75-fm panels of 8 mil 2 1/8-in extension measure simultaneously with their regular panels of 8 mil 2 1/4-in commercial mesh during regular openings. Samples were collected from both mesh sizes when they were retrieved. Subsamples of 100 fish were measured, weighed, sexed, aged, and the state of maturity was determined (Hourston and Miller 1980). In addition, the girth of all fish was measured to the nearest mm just anterior to the dorsal fin. The 1976 roe fishery in Area 24 lasted four days and samples were taken each day from March 7-10. There were 14 gillnet and 3 seine samples taken during this period. Unfortunately, one gillnet sample was lost in transit and two other samples were apparently mislabelled at the time of collection.

RESULTS

Sampling dates and localities are presented in Table 1. Summaries of length, weight, age composition, maturity, and sex ratio are presented by sample in Tables 2.01-2.16. Detailed information collected on individual fish is listed by sample in Tables 3.01-3.16. As no girth measurements were taken on the fish in seine samples, they are not listed here but may be found in Hourston (1980). These data have been analysed in detail and the results are reported in a separate document (Schweigert et al. 1980).

ACKNOWLEDGMENTS

I would like to thank Walter Piatoka and John Chorney, skippers of MISS ROBYN and GALA BABE, for their assistance in obtaining the samples

from the two nets. Dick Isaacson aged the catches and Capt Ed Arnet collected the samples from the fishing grounds.

REFERENCES

- Hourston, A. S. 1980. British Columbia herring sampling data for the 1975-76 season. Can. Data. Rep. Fish. Aquat. Sci. 246: 262 p.
- Hourston, A. S., and D. C. Miller. 1980. Procedures for sampling herring at the Pacific Biological Station. Fish. Mar. Serv. MS Rep. 1554: 23 p.
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Table 1. Gillnet and seine samples taken in Clayoquot Sound (Area 24),
March 7-10, 1976.

Gear	Sample No.	Date	Location	Vessel
2 1/8 Gillnet	332	March 7	Yellow Bank	MISS ROBYN
	333 ^a	March 7	Yellow Bank	GALA BABE
	233	March 8	Yellow Bank	GALA BABE
	335	March 8	Yellow Bank	MISS ROBYN
	231	March 9	SW Yellow Bank	GALA BABE
	336	March 9	Yellow Bank	MISS ROBYN
	- b	March 10	Yellow Bank	MISS ROBYN
2 1/4 Gillnet	334	March 7	Yellow Bank	MISS ROBYN
	232 ^a	March 7	Yellow Bank	GALA BABE
	234	March 8	Yellow Bank	GALA BABE
	331	March 8	Yellow Bank	MISS ROBYN
	230	March 9	SW Yellow Bank	GALA BABE
	337	March 9	Yellow Bank	MISS ROBYN
	338	March 10	Yellow Bank	MISS ROBYN
Commercial seine	167	March 7	Yellow Bank	SNOW CLOUD
	170	March 9	Ritchie Bay	B.C. SAFARI
	171	March 9	Ritchie Bay	OCEAN JOYE

^aSamples appear to be mislabelled.

^bSample lost in transit.

TABLE 2.01 SUMMARY DATA FOR SAMPLE 231

AREA: 24, CLAYCOUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
GALA BABE

GEAR: GILLNET - 2 1/8"

DATE: MAR 9/76

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	1	1.25	199.00	0.0	88.00	0.0
IV	43	53.75	214.77	5.20	128.81	11.01
V	23	28.75	221.87	9.18	145.09	21.96
VI	11	13.75	228.73	8.21	165.18	19.25
VII	2	2.50	240.50	0.71	178.00	29.70
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	20		213.55	8.77	124.55	14.94
TOTAL	100	100.00	218.05	9.51	136.28	21.66

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	6	6.00
6	94	94.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	61	61.00	133.36	59.69
FEMALE	39	39.00	140.85	40.31
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.02 SUMMARY DATA FOR SAMPLE 233

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
GALA BABE

GEAR: GILLNET - 2 1/8"

DATE: MAR 8/76 1700 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	3	3.95	199.67	6.11	119.00	9.64
IV	51	67.11	213.53	4.91	135.82	11.60
V	15	19.74	220.47	8.35	148.67	15.45
VI	6	7.89	229.83	5.38	186.00	26.42
VII	1	1.32	240.00	0.0	203.00	0.0
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	24		214.71	7.92	138.00	14.66
TOTAL	100	100.00	215.68	8.41	141.45	19.74

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	35	35.00
6	65	65.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	63	63.00	140.90	62.76
FEMALE	37	37.00	142.38	37.24
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.03 SUMMARY DATA FOR SAMPLE 332

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
MISS ROBYN

GEAR: GILLNET - 2 1/8"

DATE: MAR 7/76 1800 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	51	61.45	210.41	7.57	134.63	14.99
V	27	32.53	217.04	6.32	145.19	18.86
VI	4	4.82	222.50	12.58	163.25	35.15
VII	1	1.20	230.00	0.0	187.00	0.0
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	9		211.33	6.87	137.44	13.34
TOTAL	92	100.00	213.18	8.26	139.82	18.82

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	17	18.48
6	75	81.52
7	0	0.0
TOTAL	92	100.00

SEX RATIO:

SEX	NO	% SAMP	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	54	58.70	140.48	58.98
FEMALE	38	41.30	138.87	41.02
IMMATURE	0	0.0	0.0	0.0
TOTAL	92	100.00		

TABLE 2.04 SUMMARY DATA FOR SAMPLE 333

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
GALA BABE

GEAR: GILLNET - 2 1/8"

DATE: MAR 7/76 1200 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	43	51.81	212.35	7.55	132.33	14.16
V	30	36.14	221.97	9.42	157.50	26.57
VI	8	9.64	229.88	8.95	173.13	29.58
VII	1	1.20	245.00	0.0	217.00	0.0
VIII	1	1.20	235.00	0.0	101.00	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	17		216.76	12.31	141.88	22.37
TOTAL	100	100.00	217.94	11.00	145.30	26.25

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	9	9.00
6	91	91.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	41	41.00	142.56	40.23
FEMALE	59	59.00	147.20	59.77
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.05 SUMMARY DATA FOR SAMPLE 335

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
MISS ROBYN

GEAR: GILLNET - 2 1/8"

DATE: MAR 8/76 1200 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	1	2.50	200.00	0.0	99.00	0.0
IV	21	52.50	213.24	4.28	136.05	11.59
V	9	22.50	222.44	11.64	155.44	19.36
VI	6	15.00	226.17	11.34	162.17	22.98
VII	3	7.50	235.67	8.51	198.33	15.50
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	60		215.67	15.82	145.35	26.86
TOTAL	100	100.00	216.84	14.04	146.44	25.87

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	3	3.00
6	97	97.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	49	49.00	143.27	47.94
FEMALE	51	51.00	149.49	52.06
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.06 SUMMARY DATA FOR SAMPLE 336

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
MISS ROBYN

GEAR: GILLNET - 2 1/8"

DATE: MAR 9/76 1100 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	44	53.66	207.64	7.88	120.48	14.87
V	30	36.59	213.20	8.56	132.20	19.10
VI	6	7.32	223.83	7.03	145.33	14.83
VII	2	2.44	234.00	5.66	160.00	18.38
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	18		211.17	9.15	131.50	24.52
TOTAL	100	100.00	211.44	9.62	128.26	19.80

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	9	9.00
6	91	91.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	% SAMP	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALF	60	60.00	126.28	59.08
FEMALE	40	40.00	131.22	40.92
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.08 SUMMARY DATA FOR SAMPLE 232

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
GALA BABE

GEAR: GILLNET - 2 1/4"

DATE: MAR 7/76 1800 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGFD	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	2	2.17	193.00	11.31	108.50	13.44
IV	61	66.30	208.56	6.39	130.52	11.06
V	26	28.26	216.96	10.02	148.27	18.53
VI	3	3.26	220.00	10.00	162.33	36.23
VII	0	0.0	0.0	0.0	0.0	0.0
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	8		211.13	9.82	137.63	18.12
TOTAL	100	100.00	210.98	9.07	136.22	17.52

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	43	43.00
6	57	57.00
7	0	0.0
TOTAL	100	100.00

SFX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	58	58.00	135.74	57.80
FEMALE	42	42.00	136.88	42.20
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.09 SUMMARY DATA FOR SAMPLE 234

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
GALA BABE

GEAR: GILLNET - 2 1/4"

DATE: MAR 8/76

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	26	43.33	215.12	7.29	135.31	17.94
V	18	30.00	226.33	8.29	157.72	22.94
VI	9	15.00	233.89	7.72	169.78	17.17
VII	3	5.00	239.67	8.15	190.33	10.02
VIII	4	6.67	237.75	2.87	187.75	14.31
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	33		224.97	11.81	155.45	31.71
TOTAL	93	100.00	224.37	11.48	154.16	28.07

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	12	12.90
6	81	87.10
7	0	0.0
TOTAL	93	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	53	56.99	151.77	56.11
FEMALE	40	43.01	157.32	43.89
IMMATURE	0	0.0	0.0	0.0
TOTAL	93	100.00		

TABLE 2.10 SUMMARY DATA FOR SAMPLE 331

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
MISS ROBYN

GEAR: GILLNET - 2 1/4"

DATE: MAR 8/76 1200 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	29	34.12	218.00	4.94	145.86	13.50
V	40	47.06	223.22	8.11	157.67	18.95
VI	12	14.12	230.50	7.01	171.92	28.12
VII	3	3.53	240.67	4.51	194.00	30.45
VIII	1	1.18	241.00	0.0	179.00	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	15		222.07	7.25	155.20	13.01
TOTAL	100	100.00	223.11	8.55	156.89	20.83

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	5	5.00
6	95	95.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	53	53.00	153.19	51.75
FEMALE	47	47.00	161.06	48.25
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.11 SUMMARY DATA FOR SAMPLE 334

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
MISS ROBYN

GEAR: GILLNET - 2 1/4"

DATE: MAR 7/76 1800 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	1	1.05	192.00	0.0	115.00	0.0
IV	47	49.47	211.15	10.31	138.94	26.71
V	32	33.68	222.59	9.01	156.09	18.74
VI	13	13.68	232.15	8.28	177.85	25.54
VII	1	1.05	240.00	0.0	202.00	0.0
VIII	1	1.05	232.00	0.0	118.00	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	4		215.25	15.13	136.50	23.91
TOTAL	99	100.00	218.08	12.69	149.68	27.84

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	9	9.09
6	89	89.90
7	1	1.01
TOTAL	99	100.00

SEX RATIO:

SEX	NO	% SAMP	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	39	39.39	150.26	39.55
FEMALE	60	60.61	149.30	60.45
IMMATURE	0	0.0	0.0	0.0
TOTAL	99	100.00		

TABLE 2.12 SUMMARY DATA FOR SAMPLE 337

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK

SOURCE: COMMERCIAL FISHING
MISS ROBYN

GEAR: GILLNET - 2 1/4"

DATE: MAR 9/76 1100 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	19	28.36	215.42	7.63	131.16	16.05
V	23	34.33	221.87	9.87	146.57	20.05
VI	17	25.37	221.82	25.59	165.18	17.61
VII	7	10.45	227.71	8.52	156.29	18.03
VIII	1	1.49	244.00	0.0	216.00	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	32		221.53	12.07	144.53	24.70
TOTAL	99	100.00	221.15	14.32	147.54	23.74

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	0	0.0
6	98	98.99
7	1	1.01
TOTAL	99	100.00

SEX RATIO:

SEX	NO	% SAMP	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	69	69.70	145.64	68.80
FEMALE	30	30.30	151.90	31.20
IMMATURE	0	0.0	0.0	0.0
TOTAL	99	100.00		

TABLE 2.13 SUMMARY DATA FOR SAMPLE 338

AREA: 24, CLAYOQUOT SOUND SECTION: HECATE BAY
 LOCATION: YELLOW BANK SOURCE: COMMERCIAL FISHING
 MISS ROBYN
 GEAR: GILLNET - 2 1/4" DATE: MAR 10/76 1400 hours

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WFIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	0	0.0	0.0	0.0	0.0	0.0
IV	18	25.35	217.50	6.76	141.44	17.48
V	31	43.66	225.90	8.35	152.74	21.64
VI	14	19.72	232.93	8.14	174.07	21.08
VII	5	7.04	236.60	3.44	192.20	14.11
VIII	3	4.23	236.33	6.66	178.67	11.02
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	23		223.22	18.50	158.00	17.68
TOTAL	94	100.00	225.59	12.45	157.97	23.06

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	5	5.32
6	89	94.68
7	0	0.0
TOTAL	94	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	53	56.38	151.79	54.18
FEMALE	41	43.62	165.95	45.82
IMMATURE	0	0.0	0.0	0.0
TOTAL	94	100.00		

TABLE 2.14. SUMMARY DATA FOR SAMPLE 167

ARFA: 24,CLAYDQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK, HECATE BAY,
RITCHIE BAY

SOURCE: COMMERCIAL FISHING

GFAR: SEINF

DATE: MAR 7/76

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	5	5.62	190.20	8.01	87.20	16.78
IV	49	55.06	206.33	9.16	118.51	21.54
V	13	14.61	218.54	10.50	148.54	25.61
VI	11	12.36	237.00	7.17	184.82	19.92
VII	9	10.11	236.22	8.74	172.00	30.59
VIII	2	2.25	238.50	7.78	198.50	33.23
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	11		208.00	20.26	124.73	41.28
TOTAL	100	100.00	214.00	17.04	135.24	37.18

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	23	23.00
6	77	77.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	55	55.00	124.51	50.64
FEMALE	45	45.00	148.36	49.36
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.15. SUMMARY DATA FOR SAMPLE 170

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK, HECATE BAY,
RITCHIE BAY

SOURCE: COMMERCIAL FISHING

GEAR: SEINE

DATE: MAR 9/76

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	7	8.24	186.43	8.54	89.29	11.98
IV	44	51.76	206.98	11.59	121.77	25.11
V	13	15.29	219.23	11.88	144.69	21.14
VI	9	10.59	234.22	9.36	184.11	27.60
VII	10	11.76	240.70	16.70	177.10	41.72
VIII	2	2.35	235.00	0.0	178.00	32.53
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	15		208.33	17.00	115.80	28.29
TOTAL	100	100.00	213.72	18.85	133.85	37.53

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	52	52.00
6	48	48.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	50	50.00	128.78	48.11
FEMALE	50	50.00	138.92	51.89
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 2.16. SUMMARY DATA FOR SAMPLE 171

AREA: 24, CLAYOQUOT SOUND

SECTION: HECATE BAY

LOCATION: YELLOW BANK, HECATE BAY,
RITCHIE BAY

SOURCE: COMMERCIAL FISHING

GEAR: SFINE

DATE: MAR 9/76

SPECIMENS AT EACH AGE:

AGE	NO	% AGED	LENGTH		WEIGHT	
			MEAN (MM)	STD. DEV.	MEAN (GM)	STD. DEV.
I	0	0.0	0.0	0.0	0.0	0.0
II	0	0.0	0.0	0.0	0.0	0.0
III	6	6.90	190.50	5.58	91.33	11.40
IV	45	51.72	205.84	10.10	119.51	20.17
V	19	21.84	218.79	11.15	144.21	25.95
VI	15	17.24	231.47	7.10	176.47	21.13
VII	2	2.30	236.50	2.12	178.00	15.56
VIII	0	0.0	0.0	0.0	0.0	0.0
IX	0	0.0	0.0	0.0	0.0	0.0
UNK	13		227.15	12.28	166.54	36.36
TOTAL	100	100.00	214.61	15.55	138.34	34.55

HJORT MATURITY STAGES:

STAGE	NO	%
1	0	0.0
2	0	0.0
3	0	0.0
4	0	0.0
5	43	43.00
6	57	57.00
7	0	0.0
TOTAL	100	100.00

SEX RATIO:

SEX	NO	%	WEIGHT	
			MEAN (GM)	% SAMP WEIGHT
MALE	48	48.00	135.50	47.01
FEMALE	52	52.00	140.96	52.99
IMMATURE	0	0.0	0.0	0.0
TOTAL	100	100.00		

TABLE 3. 1 SPECIMEN DATA FOR SAMPLE 230.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
230	3	9	232	170	2	6	125
			234	156	1	7	122
			224	166	2	7	132
			232	163	1	6	121
			205	108	1	4	100
			208	134	1	4	104
			220	146	2		124
			219	130	1		104
			215	131	2	5	105
			223	147	1	5	119
			227	150	2	5	115
			214	131	2		111
			247	187	1	7	127
			241	184	2	5	128
			255	204	2	10	140
			214	125	2	4	113
			229	166	1		122
			229	161	1	7	124
			221	145	2		120
			236	181	2	6	128
			223	151	1	5	115
			225	142	1	5	121
			212	128	2		117
			222	156	1		120
			247	182	1	7	122
			244	198	2		147
			220	152	2		126
			240	200	2		154
			212	125	1	4	117
			222	147	2	5	115
			202	113	1	4	120
			214	140	2		120
			240	202	1	7	135
			230	169	2		135
			220	152	2		135
			244	202	1		135
			236	179	2	6	134
			241	199	1	6	132
			232	164	2	5	123
			239	201	1	8	134
			236	181	2		134
			224	167	2		129
			214	136	2	4	115
			231	152	2		122
			232	148	1		113
			232	177	2	5	132
			238	206	2	6	139
			229	160	1	7	120
			225	151	1	4	122
			231	173	1		123
			243	197	2		136

TABLE 3. 1 SPECIMEN DATA FOR SAMPLE 230.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
230	3	9	235	191	2	6	140
			245	208	2		140
			229	175	2	6	130
			232	154	1	6	122
			230	158	1	5	133
			204	116	1		115
			214	136	1	5	118
			224	154	1		128
			210	124	2	4	113
			220	150	2	5	126
			210	123	1	4	120
			216	132	1	5	112
			206	117	1	4	115
			225	157	1		120
			216	143	1		116
			219	142	1		117
			209	122	2		115
			210	133	1	4	116
			243	201	2	6	142
			220	150	2	5	120
			242	202	1	8	134
			215	132	1	5	113
			221	156	1		136
			237	170	1	7	136
			211	138	2		122
			209	122	2	4	120
			245	217	2	9	151
			231	164	1	5	126
			237	200	2	6	136
			230	164	1	5	127
			232	180	2	5	150
			212	134	2	5	118
			224	170	1		124
			235	203	2	7	139
			208	128	2	4	115
			212	142	1	5	111
			229	148	2		122
			246	218	2	6	147
			249	217	1		131
			214	133	1	5	113
			211	137	2		119
			230	173	1		131
			239	177	1	6	123
			218	132	1	5	115
			235	212	2	6	145
			240	185	2		135
			230	173	2		139
			230	171	1	5	128
			254	207	1	7	132

TABLE 3. 2 SPECIMEN DATA FOR SAMPLE 231.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
231	3	9	225	156	2	5	127
			216	134	2	5	120
			225	137	1		110
			216	134	1	5	111
			241	196	1	6	132
			204	118	1	4	103
			210	134	1		116
			241	199	1	7	125
			221	138	1	5	115
			224	135	1		115
			234	162	1	5	117
			221	130	1	4	110
			216	158	1	4	123
			212	125	1	4	110
			218	134	2	4	117
			208	127	1	4	115
			217	120	1	4	102
			225	156	1	4	122
			219	149	1	5	123
			199	88	1	3	95
			211	126	2	5	110
			217	138	2	4	114
			216	123	1	4	115
			214	123	2	5	120
			217	121	2	4	115
			216	132	2	4	109
			209	119	1	4	105
			231	173	1	5	125
			215	127	1	4	115
			205	107	1	5	105
			239	194	2	5	138
			228	196	2	6	140
			210	118	1	4	110
			205	105	1	4	106
			215	121	1		110
			215	135	1	6	110
			217	129	2	4	115
			226	175	2	5	135
			225	156	1	6	128
			230	155	1	5	117
			216	131	2	4	122
			207	123	2		125
			235	146	1	6	118
			202	109	1		108
			209	125	1	5	115
			209	111	1		108
			228	157	2	6	125
			222	139	2	4	122
			222	130	1	4	110
			218	157	1	5	120
			216	122	1	4	110

TABLE 3. 2 SPECIMEN DATA FOR SAMPLE 231.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
231	3	9	230	152	1	5	125
			225	132	1		108
			214	127	2	4	115
			235	175	2	6	130
			224	140	2	4	120
			224	140	1	5	115
			235	178	2	5	125
			214	119	2	5	105
			217	150	2	6	120
			207	121	1		110
			204	100	1		104
			205	122	1		115
			214	118	1	4	105
			211	116	1	4	110
			210	128	1	4	115
			215	129	1	4	115
			223	166	1	6	125
			214	119	1	4	102
			210	128	2	4	120
			220	128	1	4	105
			209	106	2		110
			210	114	2		115
			210	113	1	4	102
			229	151	2		130
			221	119	1	5	110
			229	139	1	5	122
			209	117	2		120
			226	153	2	5	125
			221	154	2	4	125
			210	129	1	5	120
			220	133	2	4	115
			219	128	1		110
			236	171	1	6	130
			219	128	1	4	110
			207	127	2	4	120
			211	121	1	4	115
			222	143	2	4	120
			230	162	1		128
			205	117	2		110
			218	139	1	4	121
			216	121	1	4	115
			212	143	2	4	128
			233	169	2	6	132
			207	120	2	4	110
			215	132	2		110
			212	119	1		115
			209	132	2	4	120
			240	157	2	7	122
			212	130	1	4	115

TABLE 3. 3 SPECIMEN DATA FOR SAMPLE 233.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
233	3	8	225	151	1	4	116
			212	127	1	4	112
			236	236	1	6	126
			206	127	1	4	115
			211	137	2	4	117
			205	126	1	3	109
			220	134	1		105
			226	155	1	5	115
			210	138	1	5	114
			212	125	1		105
			213	139	2	4	114
			217	143	1	4	115
			232	171	1	5	121
			234	193	1	6	130
			219	151	2	4	122
			219	128	1	4	111
			215	145	1		124
			226	162	1		119
			212	130	1	4	114
			230	166	2		125
			216	145	2		117
			220	151	1	5	117
			214	150	2	5	134
			202	126	2		115
			210	132	1	4	114
			234	175	2	6	128
			210	140	1	4	116
			214	142	2	4	120
			226	174	1	6	135
			216	151	2	4	125
			193	108	2	3	113
			217	138	2		120
			234	184	1	5	130
			212	137	2	4	130
			215	128	1	4	112
			220	131	1	4	110
			221	154	2		125
			210	126	1	4	121
			209	114	1		110
			204	132	1		112
			222	156	2	5	130
			225	158	1	5	122
			215	133	1		112
			210	145	2	4	122
			211	126	1	4	127
			215	144	1	4	116
			202	116	1	4	105
			212	137	1		110
			220	154	1	4	121
			225	153	1	4	122
			216	141	1		115

TABLE 3. 3 SPECIMEN DATA FOR SAMPLE 233.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
233	3	8	212	141	2	4	115
			222	152	1	5	125
			210	151	1	4	110
			206	128	1	4	111
			240	203	1	7	135
			221	146	1	5	117
			210	131	1	4	113
			210	120	2	4	115
			220	157	1	4	125
			201	123	2	3	125
			211	136	2		116
			221	143	1	5	120
			208	128	1	4	115
			211	135	2	4	120
			225	176	2	6	130
			206	127	1	5	113
			214	131	1	5	117
			206	120	1		110
			205	131	2		126
			214	141	1	4	120
			216	136	2	4	117
			210	110	1	4	117
			211	120	1	4	117
			216	144	2		120
			222	150	2	4	124
			204	116	1	4	104
			210	130	2	5	115
			210	134	1	4	110
			215	129	1		120
			221	157	2	4	127
			224	162	1	6	125
			218	145	2	4	120
			212	134	1	4	115
			215	141	2	4	120
			212	138	1	4	115
			214	142	2	4	117
			228	174	2		136
			216	142	1		110
			215	116	1	4	119
			214	133	2		117
			226	133	1		113
			214	121	1	4	107
			215	137	1	4	112
			211	135	2	4	120
			216	142	1	4	111
			210	120	1	4	106
			201	118	2		110
			230	138	2	5	114
			219	143	2	4	120

TABLE 3. 4 SPECIMEN DATA FOR SAMPLE 234.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
234	3	8	249	200	1	7	156
			214	114	1	5	129
			216	136	1		141
			235	172	1	6	150
			216	151	2	4	149
			238	166	1		148
			228	157	2	5	155
			225	167	2	4	150
			218	133	2	5	139
			239	168	1	6	123
			231	162	1		120
			220	149	1		116
			224	135	1	4	111
			236	181	2	5	122
			222	165	2	4	133
			237	201	2	5	146
			239	169	2		126
			237	197	1	8	124
			231	167	1	6	114
			225	150	1	5	115
			222	139	2		107
			229	170	1		122
			222	135	1	6	111
			234	171	1	8	126
			221	138	1	5	114
			240	202	1	8	135
			209	127	1	4	113
			232	161	2		124
			219	145	1	4	116
			237	182	2	5	132
			225	149	2	5	116
			211	133	1		116
			216	138	1		112
			214	136	1		117
			209	112	1	4	106
			215	125	1	4	113
			225	161	2		124
			206	116	1	4	102
			234	191	1	7	133
			216	138	1	4	116
			231	194	2		141
			240	215	2		145
			225	152	1	4	118
			218	140	2		142
			210	126	2	4	134
			230	189	2	6	156
			219	146	1	5	145
			211	138	1		112
			236	180	2	7	138
			204	98	2	4	100
			228	155	2	4	120

TABLE 3. 4 SPECIMEN DATA FOR SAMPLE 234.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
234	3	8	229	185	1	5	134
			214	124	1		110
			225	138	1		121
			234	190	1	5	132
			238	187	1		132
			223	147	1		119
			220	152	2		132
			220	149	2		122
			215	132	2	5	122
			249	211	1		137
			242	205	1		135
			245	238	2		148
			220	148	2		120
			242	121	2		117
			211	120	2	4	101
			204	108	2		106
			239	196	2	6	131
			209	140	2	4	124
			224	136	1	4	110
			249	161	2	6	126
			224	150	2	5	130
			224	192	1		128
			220	159	1	5	129
			212	124	1	4	104
			243	169	1	5	114
			211	134	1	4	116
			226	165	1	4	120
			222	147	2	5	123
			227	156	1	5	123
			216	150	2	4	124
			230	170	2	6	132
			208	125	1	4	108
			214	116	1		103
			215	110	1	4	105
			204	120	1	4	108
			240	181	2	8	133
			231	146	1		113
			230	170	1	6	128
			220	146	2	4	108
			211	135	2		124
			209	136	2	4	117
			209	106	1		104

TABLE 3. 5 SPECIMEN DATA FOR SAMPLE 331.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
331	3	8	219	147	2	4	117
			218	137	2		127
			206	152	1		122
			217	147	1	4	124
			210	140	2	4	128
			233	168	1	6	129
			229	161	1		124
			234	157	1	5	120
			234	155	1	5	122
			225	151	1	5	127
			232	198	2	6	145
			209	137	2	5	122
			219	144	2	4	119
			232	169	1		133
			242	220	2	6	144
			219	122	2	6	136
			230	175	2	5	132
			224	157	2	4	135
			219	154	1	6	126
			229	164	2		127
			225	147	2	5	124
			214	125	1	4	114
			219	159	2		134
			220	140	1		116
			222	143	2	5	117
			236	188	2	7	140
			221	142	2	4	124
			215	140	1	4	120
			231	188	2	6	140
			215	146	2	4	124
			220	157	1	5	127
			221	168	2		127
			215	143	1	5	114
			219	152	2	5	130
			235	196	1	6	142
			229	177	1	5	135
			221	165	1	4	124
			225	176	2	4	137
			220	146	1		116
			229	160	2	4	124
			236	192	2	5	134
			229	162	1	6	125
			214	153	2	5	127
			212	142	1	4	125
			241	199	2	5	136
			210	123	1	4	112
			223	161	2		135
			220	150	2	4	129
			226	183	1	5	133
			221	147	1	4	120
			215	154	1	5	126

TABLE 3. 5 SPECIMEN DATA FOR SAMPLE 331.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
331	3	8	215	150	1	5	118
			214	146	2	4	124
			226	150	1	5	120
			226	149	2	6	121
			225	157	2	4	126
			229	150	1	5	123
			219	145	1	5	122
			226	159	2		139
			226	168	2	4	132
			230	165	1	5	128
			221	135	1		119
			230	181	1	5	136
			229	154	2	6	129
			220	150	1	5	116
			224	152	1	5	120
			214	140	1	5	122
			207	128	1	5	116
			215	143	2	5	119
			218	142	1	4	121
			228	156	1	5	127
			210	118	1	4	106
			222	151	2	5	114
			214	144	1	5	117
			219	138	1	4	112
			229	173	2	5	132
			245	227	1	7	143
			241	167	1	7	125
			231	153	1	6	122
			222	134	1	5	111
			237	205	2	5	141
			240	199	1	6	134
			217	142	1	5	113
			220	152	2	4	125
			229	168	1		124
			214	138	1	4	114
			241	179	1	8	140
			209	127	1	5	114
			218	150	1	4	118
			225	182	2	5	142
			230	161	2	5	126
			219	133	1	4	109
			221	144	1	5	115
			229	186	2	5	142
			210	137	2		116
			216	160	2	4	136
			218	152	2	4	126
			223	173	2	5	136
			213	125	2	4	105
			228	172	2		139

TABLE 3. 6 SPECIMEN DATA FOR SAMPLE 332.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
332	3	7	205	126	1	5	111
			210	136	2	5	112
			215	131	1		121
			205	135	1		116
			215	151	1	5	127
			202	118	1	4	113
			210	131	1	4	117
			220	152	1	4	121
			190	99	1	4	102
			220	136	1	4	112
			215	139	1	4	117
			225	178	1	5	136
			225	148	1	4	126
			210	136	1	4	122
			205	126	1	4	121
			210	153	2		124
			200	129	2	4	127
			210	132	1	4	116
			219	137	2	5	113
			210	141	2	4	123
			215	151	2	4	133
			210	142	1	4	125
			220	135	1	5	118
			215	129	2	4	132
			225	170	1	4	128
			210	151	2	4	135
			205	126	1	4	113
			220	140	2	4	126
			210	132	1	5	112
			214	137	2	4	121
			215	139	1	4	120
			220	161	2	5	143
			215	144	2	4	124
			205	128	2		118
			215	148	1	5	120
			225	176	1	5	136
			210	114	2	5	105
			205	109	2	4	108
			220	143	1	5	122
			220	159	1	5	120
			230	187	1	7	136
			220	158	1	5	129
			202	123	2	4	120
			205	125	1	4	113
			205	136	2	4	121
			210	125	1	5	123
			215	133	2		125
			210	145	2	4	121
			225	167	1	5	128
			215	123	1	5	105
			225	199	1	6	137

TABLE 3. 6 SPECIMEN DATA FOR SAMPLE 332.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
332	5	7	205	134	2	4	117
			225	171	1	4	121
			205	127	2	4	115
			235	186	2	6	142
			205	120	2	4	123
			225	177	1	5	134
			222	141	1	5	115
			205	129	2	4	122
			210	123	2	5	111
			202	108	1	4	105
			205	124	1	6	113
			222	156	1	4	114
			205	132	2	4	123
			220	141	2	5	117
			205	145	2		125
			212	130	1	4	113
			225	136	1	5	114
			205	116	1	4	113
			215	162	2	4	139
			220	138	1		113
			205	114	1	4	103
			210	128	1	4	111
			210	149	1	5	118
			222	143	2	4	123
			215	133	1	4	120
			210	142	1	5	119
			215	134	2	4	121
			200	123	2	4	108
			222	159	2		132
			220	175	2	5	132
			205	138	2	4	124
			210	128	2	4	116
			205	120	1	4	108
			205	126	1	4	109
			205	115	2		112
			225	151	1	5	123
			210	139	1	4	116
			225	166	2	4	147
			225	144	1	6	120
			209	116	1	5	111
			210	135	1	4	121

TABLE 3. 7 SPECIMEN DATA FOR SAMPLE 334.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
334	3	7	214	139	2	5	120
			203	122	2	4	121
			202	105	1	4	116
			214	140	1	4	119
			212	152	2	5	129
			209	131	2	4	129
			171	136	2	4	134
			225	152	1	5	122
			222	133	1	5	117
			224	156	2	4	134
			233	175	2	5	145
			218	130	1	5	120
			232	118	2	8	147
			241	197	2	6	137
			212	135	1	5	126
			232	173	2	5	130
			202	119	1	4	120
			214	131	2	4	120
			216	154	1	4	130
			241	193	1	5	134
			219	147	2	4	121
			211	133	2	4	120
			205	140	2	4	124
			209	138	1	4	123
			218	154	2	5	125
			208	130	1	4	119
			216	144	2	6	125
			220	150	1	4	122
			240	202	2	7	137
			227	182	2	4	140
			208	126	1	4	117
			202	120	1		124
			228	167	2	6	136
			235	198	1	6	140
			234	156	1		125
			227	156	2	4	127
			217	156	2	4	130
			228	181	2	5	143
			246	119	2	6	153
			238	212	1	6	140
			207	125	2	5	120
			222	142	1	4	120
			238	181	1	6	132
			228	125	1	4	121
			219	147	2	5	121
			204	112	2		120
			228	164	2	4	142
			222	151	2	5	130
			221	158	1		135
			211	132	1	4	120
			211	132	1	4	120

TABLE 3. 7 SPECIMEN DATA FOR SAMPLE 334.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
334	3	7	228	150	1	5	121
			215	152	2	4	133
			208	132	2	4	124
			209	140	2	4	127
			204	153	1	5	122
			212	141	2	5	126
			207	120	1	4	118
			201	123	2	4	120
			231	180	1	5	133
			236	180	2	5	143
			215	130	2	4	118
			198	108	2	4	114
			222	161	2	5	138
			206	130	1	4	122
			204	124	1	5	120
			224	141	2	4	120
			219	155	2	4	133
			229	178	2	6	139
			212	137	1	5	121
			226	146	2	5	121
			219	135	1	5	120
			211	131	1	4	121
			238	201	2	6	140
			212	127	2	4	120
			223	160	2	5	136
			229	172	2	6	122
			231	200	2	6	145
			192	109	2	4	113
			221	174	1	6	129
			228	176	2	5	133
			228	166	1	5	125
			204	125	2	4	122
			227	170	1	5	131
			215	132	1	4	120
			229	181	2	5	137
			203	115	1	4	132
			212	129	1	4	113
			192	115	2	3	112
			225	153	1	5	128
			218	141	2	4	131
			206	138	2	4	122
			224	125	2	4	113
			228	169	2	6	126
			226	167	2	5	136
			205	104	2	4	105
			235	175	2	5	137
			206	141	2	4	131
			208	135	2	4	128

TABLE 3. 8 SPECIMEN DATA FOR SAMPLE 335.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
335	3	8	236	198	2	7	137
			216	143	1	4	130
			217	148	2	6	110
			216	134	2	4	122
			216	147	2	4	120
			224	160	1	5	136
			215	154	2	4	132
			208	122	2	4	122
			227	183	1	7	134
			226	150	1	5	118
			208	144	2	4	126
			206	137	2	5	126
			217	145	2		126
			194	116	1		114
			245	178	1		124
			215	131	2	4	116
			211	112	1		104
			208	118	1		112
			222	136	2	4	121
			210	130	1	4	120
			208	123	2	4	122
			215	145	1	4	123
			235	196	1	5	138
			241	177	2	6	131
			219	165	1	4	131
			200	131	1	5	115
			139	111	1		124
			230	157	1	5	127
			215	145	1	4	124
			206	117	2	4	110
			214	133	2		118
			237	199	2	6	151
			210	124	1	4	115
			244	214	2	7	142
			213	135	2	4	122
			209	126	1	4	112
			219	153	2		136
			216	137	2	4	116
			216	151	2	6	130
			215	134	1	4	114
			215	138	2	4	124
			216	135	1	6	114
			230	163	1	6	125
			200	99	1	3	115
			209	127	1	4	114
			228	153	1		126
			227	167	2	5	138
			224	141	1	5	114
			230	160	2	5	135
			202	117	2		121
			222	102	1		112

TABLE 3. 8 SPECIMEN DATA FOR SAMPLE 335.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
335	3	A	220	137	2		126
			207	128	2		120
			212	127	1		112
			233	175	1		126
			211	141	1		112
			214	138	2		134
			212	134	2		116
			214	137	2		123
			215	143	2		127
			195	103	1		115
			219	143	2		121
			233	180	1		126
			206	124	1		114
			225	157	1		121
			255	237	2		152
			218	124	1		105
			208	137	1		112
			209	134	2		114
			205	125	2		113
			232	160	2		128
			205	123	1		114
			219	149	2		125
			225	171	2		135
			212	141	1		114
			220	137	1		129
			219	148	2		125
			242	181	1		127
			222	179	2		131
			207	134	2		115
			202	123	2		116
			235	192	1		136
			210	126	1		110
			218	158	2		126
			204	130	1		124
			209	142	1		124
			203	130	2		123
			232	208	2		145
			214	131	1		115
			209	125	2		110
			209	126	1		116
			212	124	2		122
			241	216	2		148
			215	143	2		124
			216	154	1		121
			226	161	1		120
			228	160	2		124
			205	123	2		116
			208	131	1		116

TABLE 5. 9 SPECIMEN DATA FOR SAMPLE 336.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
336	3	9	224	156	1	5	125
			206	118	1	5	120
			215	126	1	5	120
			204	110	1	4	115
			222	123	1	4	112
			218	130	1	5	120
			220	152	2		135
			211	127	2	4	115
			196	97	2		110
			210	119	1	4	110
			214	124	1	4	110
			205	124	1	5	112
			211	118	1		110
			202	122	2	5	175
			230	163	1	6	125
			205	131	2	5	125
			209	119	2	5	110
			209	125	2	4	120
			215	137	2	5	120
			208	134	2	4	120
			204	119	1	5	115
			204	122	2	4	120
			211	147	2	5	130
			200	105	2		110
			232	166	1	4	130
			202	115	1	4	120
			205	111	1	4	115
			225	165	2		135
			225	134	1	6	115
			206	111	1	4	115
			215	116	1	4	105
			211	122	2	4	115
			206	123	1	4	122
			204	111	1		115
			203	112	1	4	110
			223	144	1	5	120
			214	135	1		125
			224	140	1	5	124
			228	152	1	6	125
			201	109	1	5	110
			195	122	2	4	122
			220	141	2		122
			200	125	2	4	135
			204	114	2	4	110
			210	117	1		105
			205	134	2	5	125
			206	120	2	4	125
			205	110	1	4	115
			200	108	1	4	100
			195	105	1	4	110
			215	137	1	4	120

TABLE 3. 9 SPECIMEN DATA FOR SAMPLE 336.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
336	3	9	214	126	2	5	120
			211	121	2	4	120
			210	123	1	5	110
			205	112	1	5	115
			221	138	1	6	120
			223	160	2	5	125
			210	116	1	4	110
			219	131	1	5	120
			216	142	1	5	130
			219	124	1	4	115
			209	108	2		110
			230	147	1	7	130
			210	119	1		115
			205	106	2	4	110
			199	118	2	4	125
			199	119	2	4	120
			215	142	1	5	130
			211	127	2		120
			237	199	2	5	145
			215	124	1	5	105
			199	95	1	4	105
			202	111	1	4	110
			205	129	2	4	115
			215	126	2	5	120
			213	131	1	4	105
			210	109	1	5	110
			211	126	1	6	110
			214	114	1		135
			238	173	1	7	105
			200	107	1	4	135
			225	154	2	5	125
			228	159	1	6	135
			226	179	2	4	105
			216	113	1	4	135
			208	136	2		122
			234	156	1		120
			208	123	2	4	115
			215	142	2	5	110
			200	103	1	5	120
			204	131	2		122
			205	196	1		110
			206	139	2		130
			210	117	1	5	110
			214	134	1	4	125
			210	116	1	4	115
			215	135	2	4	125
			198	110	2	4	120
			205	98	1	4	102
			204	115	1	4	112

TABLE 3.10 SPECIMEN DATA FOR SAMPLE 337.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
337	3	9	228	175	1		133
			225	159	1		126
			214	144	1	6	119
			244	194	2		143
			231	166	2	4	141
			216	112	1		122
			230	168	2	5	143
			208	114	1	4	112
			235	172	1	5	126
			217	119	1	5	111
			214	143	1	5	122
			239	185	2	6	140
			236	172	1	7	127
			235	175	1	6	143
			203	119	1	4	107
			244	216	2	8	147
			225	159	2	6	130
			239	188	2	6	142
			228	165	1	5	125
			232	194	2	6	135
			233	168	1	6	132
			223	147	1	6	128
			229	160	1	5	126
			228	134	1		113
			216	133	1	5	116
			228	167	1	7	126
			226	145	1		126
			219	131	1	6	115
			225	149	1	7	120
			215	123	1	5	120
			221	157	1	4	126
			234	173	1		142
			231	160	1	6	126
			229	178	1	5	130
			231	161	2	7	136
			220	151	1		125
			208	139	1		123
			216	131	1	4	118
			206	103	1	5	102
			205	137	2	5	140
			223	172	1	6	137
			231	171	2	6	140
			220	149	1		132
			219	161	1	5	132
			216	114	1		110
			220	136	1	5	120
			218	140	1		136
			234	183	1	6	133
			217	154	2	5	130
			215	144	2		140
			238	166	1		126

TABLE 3.10 SPECIMEN DATA FOR SAMPLE 337.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
337	3	9	225	158	1	5	130
			218	150	1	6	127
			226	163	2	5	145
			223	123	2	4	122
			220	141	2	5	130
			234	175	1		130
			218	144	1	6	120
			248	198	1	10	147
			221	155	2	4	132
			214	141	2	4	142
			215	132	2		133
			216	128	1	4	115
			212	127	2	4	135
			203	103	1	4	116
			206	123	2	4	124
			228	153	1		126
			220	116	1	5	133
			248	141	1	5	116
			211	119	1	7	144
			214	121	1	4	140
			226	161	2	5	131
			230	169	1	6	131
			127	168	2	6	140
			223	144	1		140
			227	159	1		126
			214	99	2		120
			215	121	2	4	133
			222	140	1		120
			236	167	1	7	120
			210	135	2		131
			223	104	1	4	115
			209	131	1	5	116
			232	168	1	5	130
			229	151	1		125
			221	125	1	4	114
			200	107	1		107
			215	145	1		133
			217	140	1	5	117
			207	126	1	4	107
			238	171	2		146
			210	123	1		120
			204	105	2		108
			217	137	1		120
			216	123	1	4	117
			224	146	1		125
			223	145	2	4	136
			195	110	2		110
			227	159	1	7	130

TABLE 3.11 SPECIMEN DATA FOR SAMPLE 338.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
338	3	10	229	146	1	6	115
			233	174	2	6	140
			226	163	1	6	125
			227	158	2		130
			215	156	1	4	130
			240	202	2	7	145
			224	156	2		145
			222	158	1	5	130
			216	125	1	5	115
			220	161	2	6	140
			216	127	1	5	110
			236	188	2	7	145
			230	153	1		135
			214	135	1	4	115
			230	170	2	5	140
			224	129	1	5	110
			226	143	1	5	127
			236	163	1	5	135
			234	178	2		135
			224	132	1	5	120
			225	170	2	5	145
			235	171	1	5	135
			214	145	1	5	129
			230	170	1	5	130
			240	147	1	5	120
			233	163	1		125
			219	149	2	4	130
			235	192	1	5	150
			145	147	2		135
			241	178	1	6	139
			239	205	2	6	140
			225	181	2	4	145
			232	167	1	5	135
			242	186	2	8	145
			221	141	1	4	120
			216	133	2		120
			220	140	2	4	115
			215	137	1	5	125
			216	126	1	5	110
			220	155	2	5	130
			220	132	1	6	110
			229	156	2	4	129
			219	137	2	5	115
			237	189	2	6	145
			221	154	2	5	133
			219	136	1		115
			230	162	2		232
			224	150	1	4	125
			235	140	1		125
			216	129	1		125
			238	200	2	5	145

TABLE 3.11 SPECIMEN DATA FOR SAMPLE 338.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
338	3	10	220	138	1	4	110
			236	175	2	5	135
			202	120	1	4	115
			235	176	1	7	140
			216	132	1	5	115
			215	138	1	4	115
			229	184	1	8	135
			238	184	1	6	135
			216	146	2		130
			232	172	1	6	135
			230	164	2		142
			215	115	1	4	110
			220	165	1	4	128
			226	178	2	5	133
			210	125	1		125
			235	163	1		125
			250	208	1	6	140
			213	131	2	4	120
			235	169	2		135
			236	187	1	5	145
			210	120	2	4	125
			236	192	2	6	145
			230	143	1	5	125
			231	177	2		140
			219	125	1	4	120
			215	129	1	5	115
			235	157	2	5	135
			226	154	1		125
			224	166	2		135
			238	166	1	8	130
			215	116	1	5	105
			208	128	2	4	125
			225	143	2	5	130
			240	211	1	7	145
			225	166	2		140
			232	184	2	7	151
			235	168	2		145
			230	162	1	6	130
			235	157	1	5	129
			229	181	2		135
			229	150	1		125
			226	158	2	4	131

TABLE 3.12 SPECIMEN DATA FOR SAMPLE 351.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
351	3	18	184	110	2	9	117
			203	120	2		116
			192	106	2	6	114
			186	96	1	6	110
			189	99	2		113
			170	68	1	4	96
			182	71	1	4	98
			198	113	2	5	112
			208	136	2	4	127
			191	99	2	6	111
			194	104	2		108
			148	43	1	4	82
			195	117	2	4	120
			168	52	1	4	84
			192	103	1	7	112
			193	109	1		114
			202	122	2	7	117
			159	50	2	4	86
			190	100	2	6	112
			153	46	1	4	86
			202	118	2		125
			192	100	1		108
			174	59	2	8	93
			168	55	2	5	90
			193	114	2	6	115
			193	99	2	8	115
			223	156	2	5	127
			205	123	2	8	120
			152	51	1	4	85
			188	109	2	6	114
			205	124	2	8	124
			157	48	2		84
			195	103	1	8	114
			237	199	2	6	143
			169	51	3	6	85
			189	108	2		112
			184	105	1	7	114
			171	66	1	7	94
			191	98	1	6	111
			194	108	2	4	115
			194	112	2	7	116
			158	54	1		90
			197	119	1	8	114
			160	52	1		85
			192	113	1	7	117
			196	104	2	8	116
			160	52	1		84
			204	116	2	7	115
			213	132	1	5	118
			162	56	2	5	92
			195	103	2	6	115

TABLE 3.12 SPECIMEN DATA FOR SAMPLE 351.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
351	3	18	173	60	2	5	97
			186	92	2	6	109
			167	51	1	4	82
			170	66	2	4	95
			200	119	1	8	124
			157	51	2		85
			207	122	2	6	124
			150	47	2		85
			208	130	2	4	124
			168	53	1	4	85
			151	52	2		80
			151	48	2	4	86
			187	97	2	9	112
			179	72	2	8	94
			202	115	1	4	110
			204	126	2		120
			141	38	1	4	78
			190	108	2	8	118
			162	52	1	4	84
			165	53	2		89
			193	123	2	1	123
			192	115	2	8	119
			186	99	2	8	112
			187	72	2		96
			226	163	1	6	132
			170	54	2	4	87
			204	107	1		109
			188	95	2	5	112
			167	61	2	4	96
			198	110	2	7	113
			164	55	1		82
			212	127	1	4	112
			158	53	1		89
			202	115	2	4	116
			190	98	2	8	112
			163	50	3	4	83
			197	95	2		114
			153	45	1	4	82
			185	108	1		112
			199	117	2	7	120
			202	137	2		129
			158	54	2		86
			192	108	2		110
			162	52	1	5	83
			164	51	1	6	80
			152	48	1		82
			187	96	1	9	105
			155	49	2	3	84
			174	54	2		82

TABLE 3.13 SPECIMEN DATA FOR SAMPLE 352.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
352	3	18	166	50	1		85
			151	41	1	6	80
			156	47	2	7	85
			158	48	2	4	80
			165	54	2	4	90
			160	55	2	4	90
			186	47	1	4	81
			159	47	1	4	85
			155	44	2	4	80
			156	52	1	4	85
			154	49	2	4	85
			184	73	1	7	95
			154	54	2	4	95
			156	45	2	4	85
			144	39	1	3	72
			164	63	1	4	91
			186	99	1	6	105
			156	48	2	6	85
			155	48	1	5	80
			148	45	2	4	80
			182	62	1		90
			150	43	1	4	80
			142	36	2	4	70
			167	51	1	7	80
			169	49	1	4	85
			180	71	2	5	95
			174	59	1	5	85
			190	100	2	7	115
			144	36	2		75
			156	44	1	4	75
			166	55	1	5	85
			154	41	2	4	75
			177	68	1	4	90
			167	50	1	4	80
			156	51	2	4	82
			174	63	1	5	90
			154	52	2	4	90
			162	60	2	6	91
			174	63	1	6	85
			175	71	2	6	100
			145	45	2	4	82
			165	47	2	7	75
			146	39	1	4	72
			162	58	2		95
			157	51	1	5	82
			177	54	1	6	82
			170	56	2	6	92
			155	48	2	4	87
			162	49	2	5	85
			172	70	2	5	100
			172	48	2	6	75

TABLE 3.13 SPECIMEN DATA FOR SAMPLE 352.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
352	3	18	151	44	2	4	80
			154	44	1	5	75
			162	44	1	6	75
			165	45	2	5	79
			154	44	1	4	75
			161	50	2	4	85
			156	44	1	4	72
			146	36	2		70
			165	49	2		85
			169	47	1	8	85
			164	55	2		90
			164	52	2	4	96
			167	46	3	4	80
			169	48	3	4	80
			157	50	2	4	90
			161	154	2	4	90
			156	45	2	6	95
			165	58	1		85
			154	45	1	5	85
			165	54	1		82
			162	50	1		85
			172	55	1	6	85
			181	58	2	6	82
			164	52	1	4	85
			164	44	1	6	75
			167	61	2	4	95
			173	50	2	7	85
			155	47	1		80
			156	49	2	6	85
			154	44	1	4	75
			175	64	2	4	92
			164	43	1	7	75
			163	58	2	4	90
			165	59	2	4	91
			172	50	2	4	85
			160	48	1	4	80
			171	63	1		90
			176	66	1	6	95
			172	61	1		85
			156	50	1	4	84
			166	60	1	6	89
			163	46	3		78
			166	54	1	5	80
			167	54	1	6	84
			164	49	2	4	79
			154	45	2	4	80
			170	50	2	4	82
			166	51	1	5	80
			170	51	1	5	82

TABLE 3.14 SPECIMEN DATA FOR SAMPLE 353.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
353	3	18	215	135	1	4	116
			202	119	2	7	120
			202	137	2	5	125
			195	121	2	8	125
			205	121	2	8	115
			212	130	2	8	122
			195	113	2	9	117
			210	133	2	7	118
			215	138	1	8	122
			225	148	1	6	113
			205	115	2	5	110
			210	137	2	7	122
			215	150	1	4	124
			215	151	2	4	129
			200	110	1	6	107
			225	142	2	5	126
			215	127	1	5	112
			205	129	2		126
			195	127	2	6	129
			200	129	1	4	123
			200	127	2	4	122
			202	112	2	5	113
			201	120	1	8	113
			190	113	1	7	115
			200	118	1	8	115
			220	163	1	5	126
			220	169	2	5	138
			195	112	2	8	113
			220	157	2		127
			200	127	2	7	129
			205	118	2	7	120
			200	131	2	8	130
			210	125	2	6	139
			165	60	1		93
			200	125	2	8	129
			205	138	1	4	124
			205	131	1	7	124
			225	183	2		135
			202	121	2	7	121
			195	107	2	6	109
			185	94	2	7	115
			215	147	2	5	123
			210	153	2	6	131
			220	151	1	5	125
			185	112	2	7	118
			210	129	2	7	122
			200	105	1	7	112
			200	109	2	7	120
			195	119	1	8	112
			220	143	2	7	118
			195	108	2	7	118

TABLE 3.15 SPECIMEN DATA FOR SAMPLE 354.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
354	3	18	194	106	1		105
			201	116	2	7	126
			161	52	2	4	86
			189	101	1	6	109
			185	84	1	5	100
			211	150	1	6	126
			199	107	2	8	114
			206	113	2		109
			188	102	1	5	115
			210	109	1	5	107
			190	93	2	6	108
			194	96	2		114
			190	93	2	7	105
			190	95	2		110
			204	110	2		115
			190	100	1		106
			222	156	1	5	128
			195	94	2	6	109
			194	105	1	8	111
			189	88	2	7	102
			207	104	1	5	108
			190	97	2	8	107
			185	92	2	8	114
			186	99	2		112
			199	106	2	7	120
			205	116	2	8	114
			208	113	1	6	114
			199	96	2	7	109
			193	103	2	5	115
			190	97	2	7	116
			179	65	2		91
			191	101	2		117
			199	113	2		121
			195	101	1	5	106
			199	97	2	6	108
			191	95	1	8	102
			193	99	2	8	112
			200	111	2	7	113
			190	99	2	5	122
			198	107	1	8	111
			210	106	1	4	110
			199	111	2	8	119
			152	40	2	4	80
			198	108	2	8	120
			202	108	2	7	116
			180	74	2	6	107
			190	104	2	5	119
			204	109	1	6	109
			165	53	2	4	84
			197	106	2	6	110
			154	43	1	3	76

TABLE 3.15 SPECIMEN DATA FOR SAMPLE 354.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
354		3 18	195	103	1		108
			208	128	2	9	124
			186	76	1		95
			198	108	2	6	125
			161	51	2	4	85
			184	106	2	8	114
			164	53	1	4	88
			198	106	2	6	109
			200	99	1	5	115
			204	105	2	7	111
			189	95	2	4	102
			200	105	2	6	114
			188	92	2	6	104
			194	89	2	6	106
			205	131	2	8	132
			158	50	2	4	84
			212	128	1		124
			194	102	2		110
			192	98	1	6	108
			200	110	2	8	119
			200	111	2	7	115
			199	116	2	9	119
			199	101	2	6	105
			196	110	2	6	112
			209	110	2	6	127
			195	100	1	6	108
			164	49	2	4	80
			207	115	2	6	113
			214	115	2	4	108
			198	102	2	5	108
			189	78	1	6	92
			195	100	2	5	115
			210	144	2	6	127
			203	109	2	6	108
			202	115	2	6	115
			142	47	2	3	88
			204	122	2	7	121
			198	115	2	6	108
			202	104	2	6	103
			180	80	1	6	94
			190	89	1	7	103
			162	51	1	4	81
			200	107	1	7	110
			204	119	2	7	114
			200	101	2		117
			187	88	1	7	101
			194	96	1	7	106
			194	119	2	5	120
			192	91	2		104

TABLE 3.16 SPECIMEN DATA FOR SAMPLE 355.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
355	3	18	159	50	1	4	84
			158	52	2	4	85
			172	67	1	7	96
			156	47	1	4	82
			165	50	1	6	81
			155	53	2		88
			155	40	1		76
			172	53	3	8	80
			160	51	2	4	82
			162	48	2	5	81
			167	53	1		82
			167	60	2	4	90
			167	51	1	4	82
			156	51	1	3	82
			161	42	1		70
			150	51	2	4	85
			173	56	1		82
			152	48	2		79
			156	48	2	4	85
			166	60	2	8	90
			172	61	2	5	90
			148	42	2		75
			162	52	2	5	86
			162	49	1	5	82
			175	53	2	6	82
			155	46	1	4	85
			163	56	1	5	86
			163	52	2	3	83
			143	43	1	4	76
			173	56	1	8	85
			152	40	1	5	71
			148	41	1		76
			170	54	2		83
			154	44	1	4	72
			162	52	2	5	82
			162	46	1	5	80
			174	58	1	5	86
			151	47	1	4	80
			153	52	1	4	84
			156	46	1	1	86
			162	49	2	4	90
			160	46	2	4	82
			161	46	1	5	73
			168	54	1	4	82
			159	45	1	4	69
			157	48	2	4	84
			166	58	2		83
			156	50	1	4	75
			146	41	2	4	73

TABLE 3.16 SPECIMEN DATA FOR SAMPLE 355.

SAMPLE	DAY	MONTH	LENGTH	WEIGHT	SEX	AGE	GIRTH
355	3	18	171	53	1	6	80
			156	54	2	4	85
			160	51	2	4	84
			174	57	1	6	85
			164	59	2		93
			162	47	2	6	80
			167	47	2	5	82
			164	53	1	5	90
			152	50	2		81
			160	50	1	6	83
			158	55	2	5	84
			157	44	2	4	84
			168	64	2	4	96
			164	52	2	6	83
			155	50	2		87
			167	58	2		82
			174	63	2	5	85
			170	56	1	4	83
			157	53	2		86
			172	58	1	6	84
			164	52	2	4	83
			167	48	3	6	82
			165	48	3	6	76
			166	47	3	4	73
			159	46	2	4	82
			154	47	1	4	86
			161	47	1	4	86
			175	67	1	4	86
			154	51	1	4	84
			166	61	2	7	91
			148	43	2	4	81
			159	41	1	5	74
			159	49	1	4	81
			157	45	1	4	76
			165	51	1	6	85
			178	72	2	5	106
			172	54	3	5	84
			163	54	1	5	81
			164	55	1	6	83
			165	51	2	4	88
			177	47	1		74
			152	49	2	4	82
			153	42	2	4	75
			167	53	1	4	84
			167	49	2		80
			157	43	1	4	75
			147	40	2	4	75
			149	38	1	4	73
			150	43	1	4	78
			143	38	2		78
			161	51	1	5	80

