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Electrofishing Surveys for Atlantic Salmon from Margaree River, Nova Scotia, 1957 to 1987

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Fisheries and Aquatic Sciences No. 736

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FROM MARGAREE RIVER, NOVA SCOTIA, 1957 TO 1987

by

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ABSTRACT

This report summarizes the biological characteristics and density estimates of Atlantic salmon (Salmo salar) fry and parr from the Margaree River watershed, 1957 to 1987. A total of 44 stations have been electrofished over the past 30 years. Summaries of mean length and weight at age, length frequencies and densities of fry and parr are presented by station and sampling date. Incidental catches of other species by station and date are also presented.

RESUME

Ce document a pour objet premier, la présentation de données biologiques et de densités d'alevins et de tacons du saumon atlantique (Salmo salar) du bassin de la rivière Margaree. En tout, 44 stations d'étude ont été échantillonées au cours des dernières 30 années en utilisant divers engins de pêche électrique. La croissance en longueur et en poid, les fréquences de longueur et les estimes de densité par stade de développement sont présentés. On y retrouve aussi un sommaire des prises incidentelles des autres espèces de poissons.

INTRODUCTION

This report summarizes data collected during electrofishing surveys of instream Atlantic salmon (Salmo salar) populations in the Margaree River watershed. Data collected by the Department of Fisheries and Oceans, from 1957 to 1987, and by the Nova Scotia Provincial Department of Lands and Forests, from 1981 to 1986, are presented.

MATERIALS AND METHODS

The sampling methods over the past 30 years have remained essentially the same. Sites were selected on the basis of several factors including quality of fry and parr habitat, ability to properly sample the site, and accessibility. Barrier nets were installed at the upper and lower boundaries of the sampling site. The sites were fished using variable voltage, pulsating DC electroshockers. The specific models were not described in the archived data sheets.

Site dimensions recorded included upper and lower site widths plus additional widths in between and length along the right and left bank. Site area was calculated using mean width and mean length. Other site characteristics occasionally measured in the field included pH, specific conductance and water temperature. Specific field methods and equipment models were not recorded in the archived data. Stream order of the site was determined following the method outlined in Hynes (1970).

All salmon were identified and enumerated into fry and parr categories for each sweep. Salmon which had the adipose fin clipped were considered to be of hatchery origin and were enumerated and measured separately. Young-of-the-year salmon (fry) were readily distinguishable on the basis of length. Length frequency data collected in 1964 and from 1975 to 1987, were used to divide salmon parr into small and large size groups. All lengths were measured as fork length (nearest 0.1 cm) except from 1975 to 1979 when total compressed lobe length (nearest 0.1 cm) was measured. These data (1975-1979) have not been adjusted to correspond to the fork length values of other years. The cut-off length between small and large parr was not recorded for the sampling years 1964 and 1975.

Density of salmon was estimated as follows. The estimated population parameter, N, and its associated variance and confidence interval are calculated according to the procedure described by Zippin (1956). N was not estimated when the total catch was less than 10. The confidence interval is calculated as ± 2 standard errors of N, with standard error equal to the square root of the variance. These intervals are interpreted as 95% confidence intervals when N is greater or equal to 200 and 90% when N is greater than 50 but less than 200 (Zippin 1958). Confidence intervals were not calculated for N less than 50. The assumption of constant catchability was tested as described by Zippin (1956).

In addition to length, scales for ageing and wet weight from a subsample of the catch were collected for 1957 to 1961, 1965, 1968 and 1987,

except in 1986 when weights only were collected. In 1987, scales were collected from the left side of the fish, above the lateral line, at a point along the line drawn from the dorsal fin to the anterior edge of the anal fin. Precise location of the scale sample in years prior to 1987 was not indicated although it is thought that the scales were likely collected from the region between the lateral line and the dorsal fin. The sampling routine in 1987 was to collect scales from three fish in each centimetre length class above 7.0 cm. The basis of the subsampling in previous years is not known. Length-at-age values are calculated from samples in which ages were determined from scales. Length-weight regressions using common logarithm transformed values were calculated for the years 1957 to 1961, 1965, 1986 to 1987.

The data summaries are presented for Atlantic salmon of wild origin. At some sites, hatchery released, adipose clipped parr were sampled. These individuals were not included in any of the biological characteristics and population estimates which follow. The characteristics of these fish are presented in a separate table. Estimated densities for species other than Atlantic salmon were calculated from total catch.

DATA SUMMARY

A summary of the sampling sites, locations, years sampled and general site characteristics is presented (Table 1; Figs. 1 to 9). Of 44 sites

sampled over 30 years, only one, site 93 on the Southwest Margaree, could not be located. Site 45, Forest Glen Brook, was fished as two adjacent sections in 1986 and 1987. Ageing and length frequency are presented with both sections combined (Tables 15, 19, 20, 25) but densities are presented for each section separately and combined (Table 7).

The catches, estimated populations and estimated densities of Atlantic salmon are presented by size category, site and date (Tables 2 to 9). The tables are interpreted as follows. Total catch equals the actual number of fish captured and enumerated. N is the population estimate for the site. Column values under the heading 'P' present the probability of capture during the sampling interval. The column values under 'G' are used to interpret the assumption of constant catchability 'P' over all sampling intervals. The null hypothesis of constant capture probability is rejected ($p < 0.05$) when the calculated G value exceeds the chi-square value with $k-2$ d.f., where k = number of sweeps; these are marked by an asterisk. In those cases, the estimated population and confidence intervals are considered unreliable.

The estimated density, number per unit of habitat (one unit = 100 sq. m.), was calculated by dividing the population estimate, N, by the units of habitat sampled. When N could not be estimated, the density was calculated from the total catch. Sites where no salmon were captured are included in the table and can be recognized by total catch equal to 0. Table 10 presents an overview of the annual and geographical variations in densities

of fry and parr. When several sites from any tributary were sampled repeatedly over a number of years, the density estimate for the year is the average of the density estimates, weighted by site area.

Mean lengths and weights at age are presented for sites where ages were determined from scales (Tables 11 to 18). Regression parameters and the range of lengths encompassing the length-weight regression calculation are presented for sites in which the data yielded significant slopes ($p<0.05$) (Tables 19, 20).

Atlantic salmon length frequencies used to categorize fry, small parr and large parr are presented for 1976 to 1987 (Tables 21 to 29). Fry, small parr and large parr categories, determined from the length frequency distributions and used in estimating densities are presented for each site and date (Figs. 10 to 17). In 1964, parr were categorized as small and large although the grouping ranges were not specified.

Numbers and lengths of hatchery released parr are presented for each site (Table 30).

Other species captured from the Margaree River watershed during electrofishing surveys included brook trout (Salvelinus fontinalis), eels (Anguilla rostrata), sticklebacks (Gasterosteidae), killifish (Fundulus sp.), gaspereau (Alosa sp.), suckers (Catastomidae) and cyprinids (Cyprinidae) (Tables 31 to 38). The cyprinids sampled in 1965 were recorded as Couesius (lake chub) although Scott and Crossman (1973) report its distribution restricted to mainland Nova Scotia.

ACKNOWLEDGEMENTS

A large number of individuals, too many to mention here and many unknown, have participated in some aspect of the electrofishing surveys from the Margaree River watershed. Without their participation, the database which forms the basis for this report would not exist. We acknowledge the efforts and guidance from 1957 to 1969 of Dr. P.F. Elson. T.L. Marshall and P. Amiro directed the surveys from 1975 to 1979. Several individuals who participated as field crew, in particular S.J. LeBlanc, L. Ingraham and R. Watts, provided valuable information regarding the location of the historical sampling sites.

We also gratefully recognize B. Sabean, Nova Scotia Provincial Department of Lands and Forests, who provided the electrofishing data from Trout Brook for 1981 to 1986.

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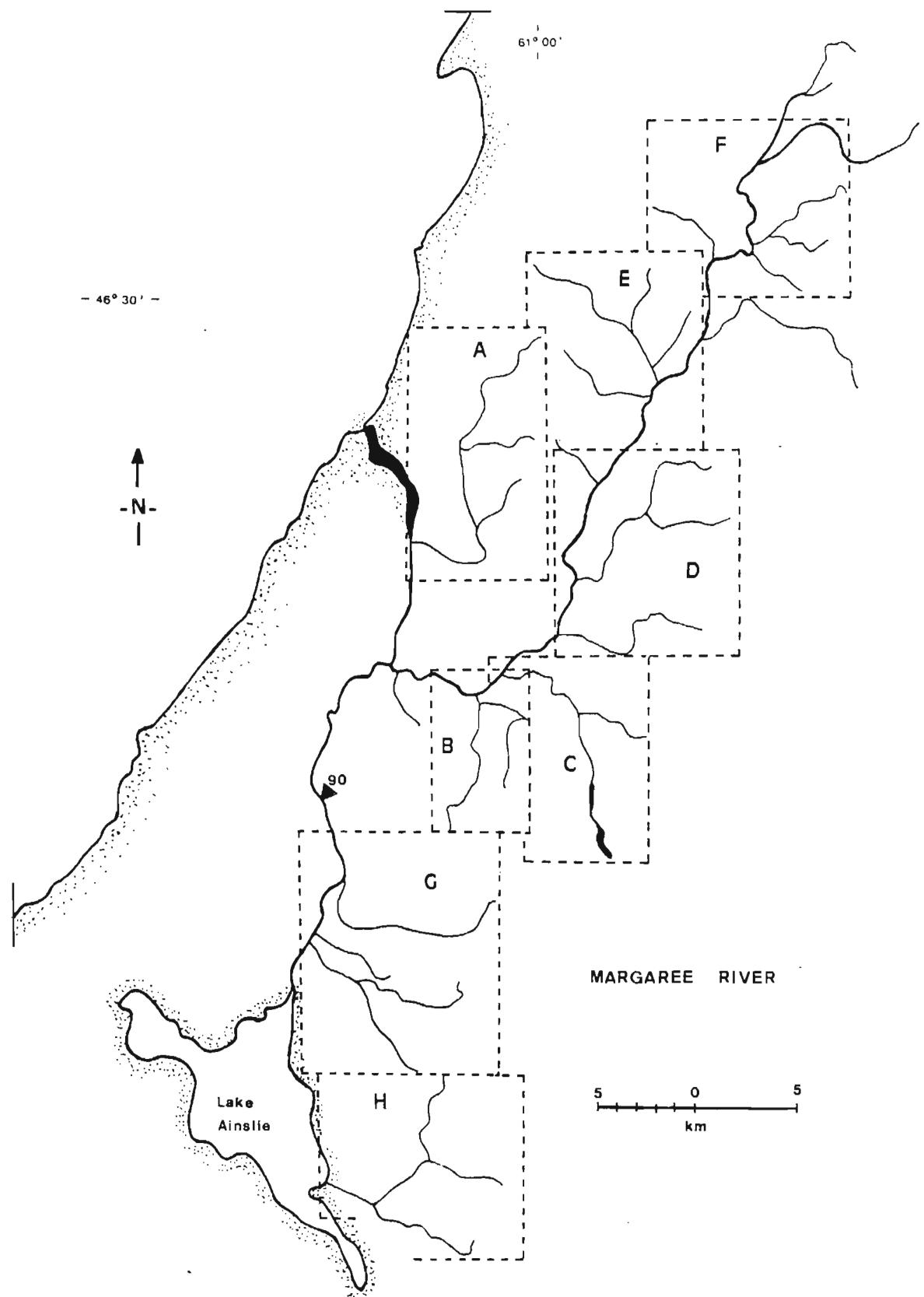


Figure 1. Margaree River watershed. Triangle refers to electrofishing station on Southwest Margaree River.

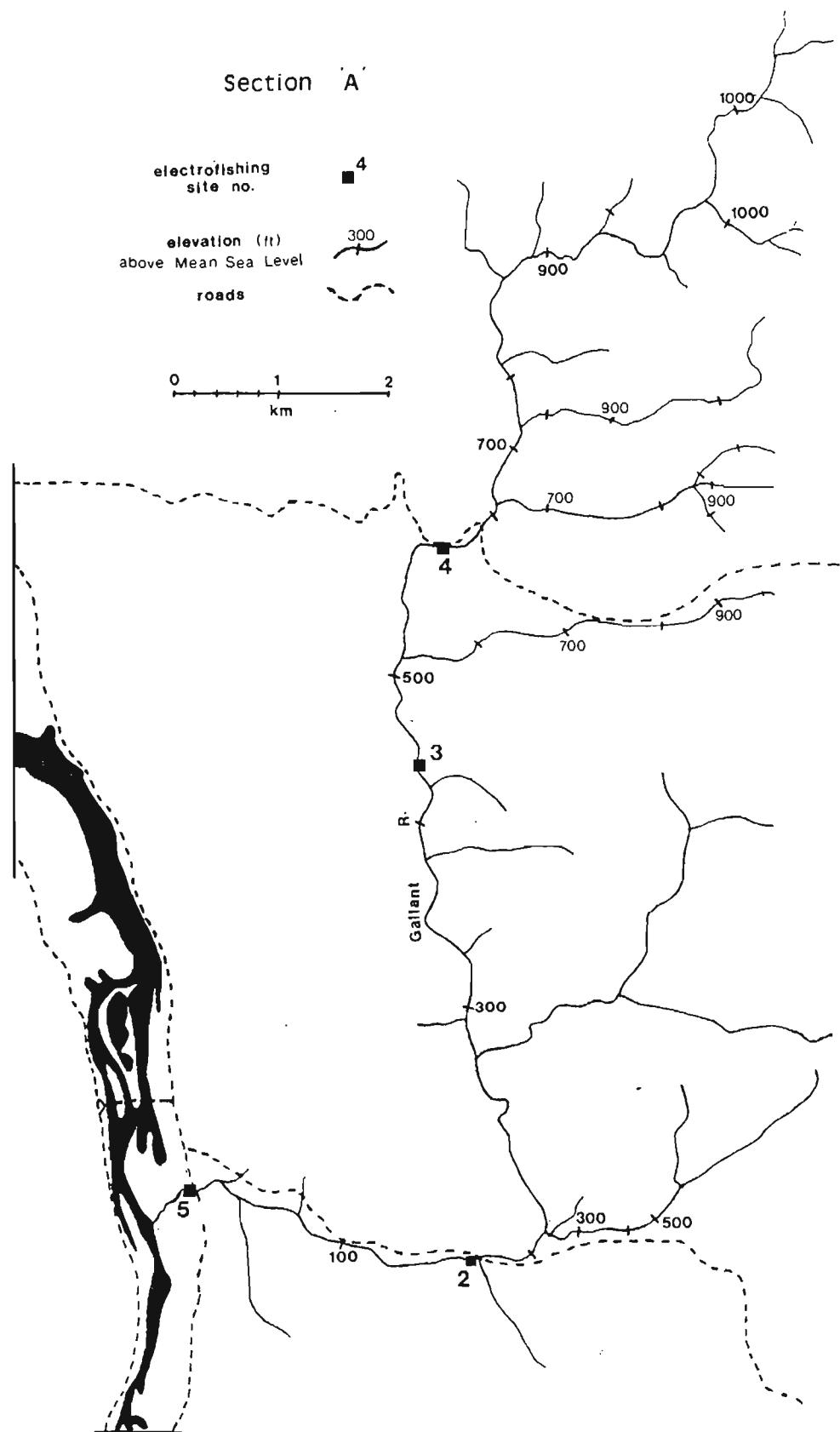


Figure 2. Sampling sites from Gallant River.

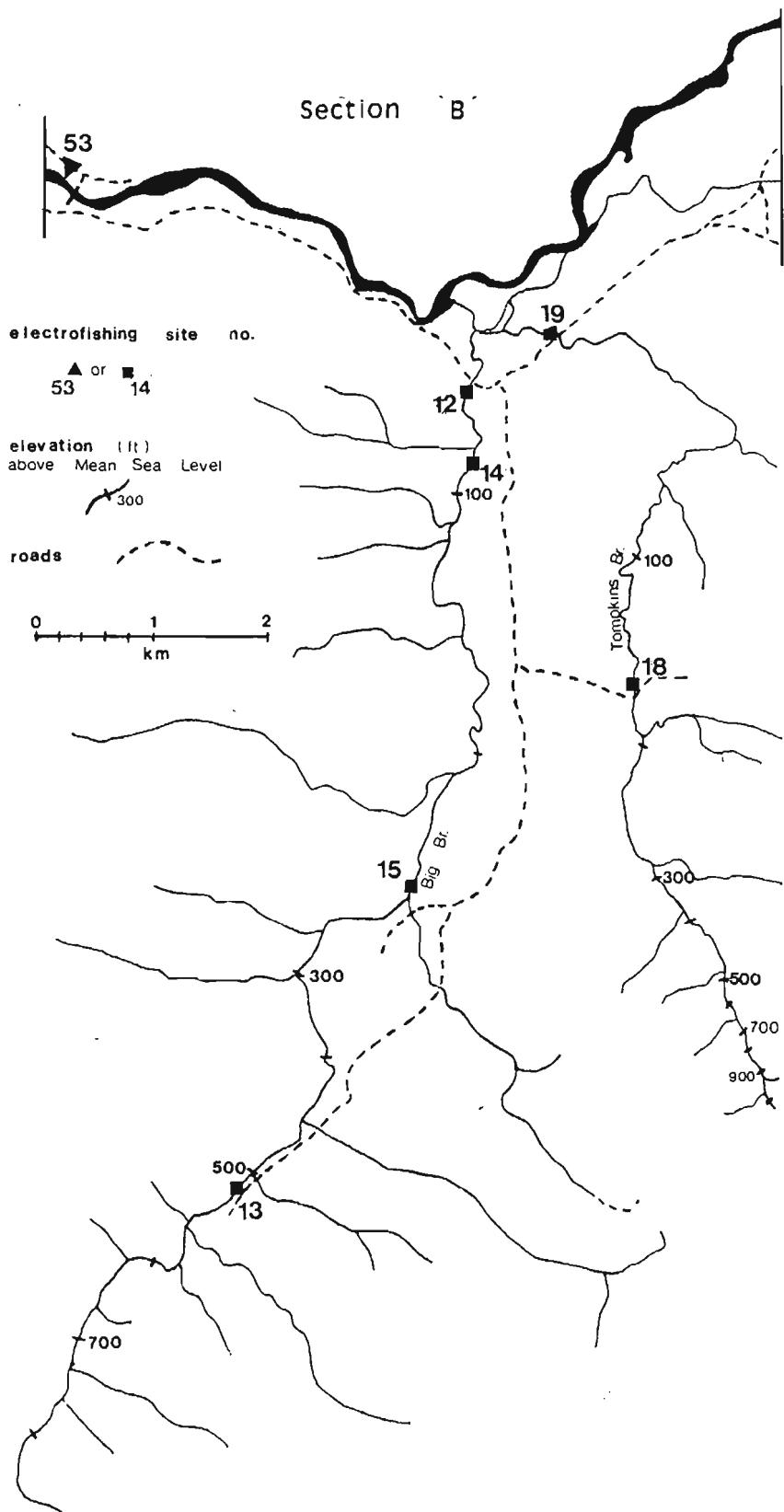


Figure 3. Sampling sites from Big Brook, Tompkins Brook and Northeast Margaree River. Triangles are sites on main river and squares are sites on tributaries.

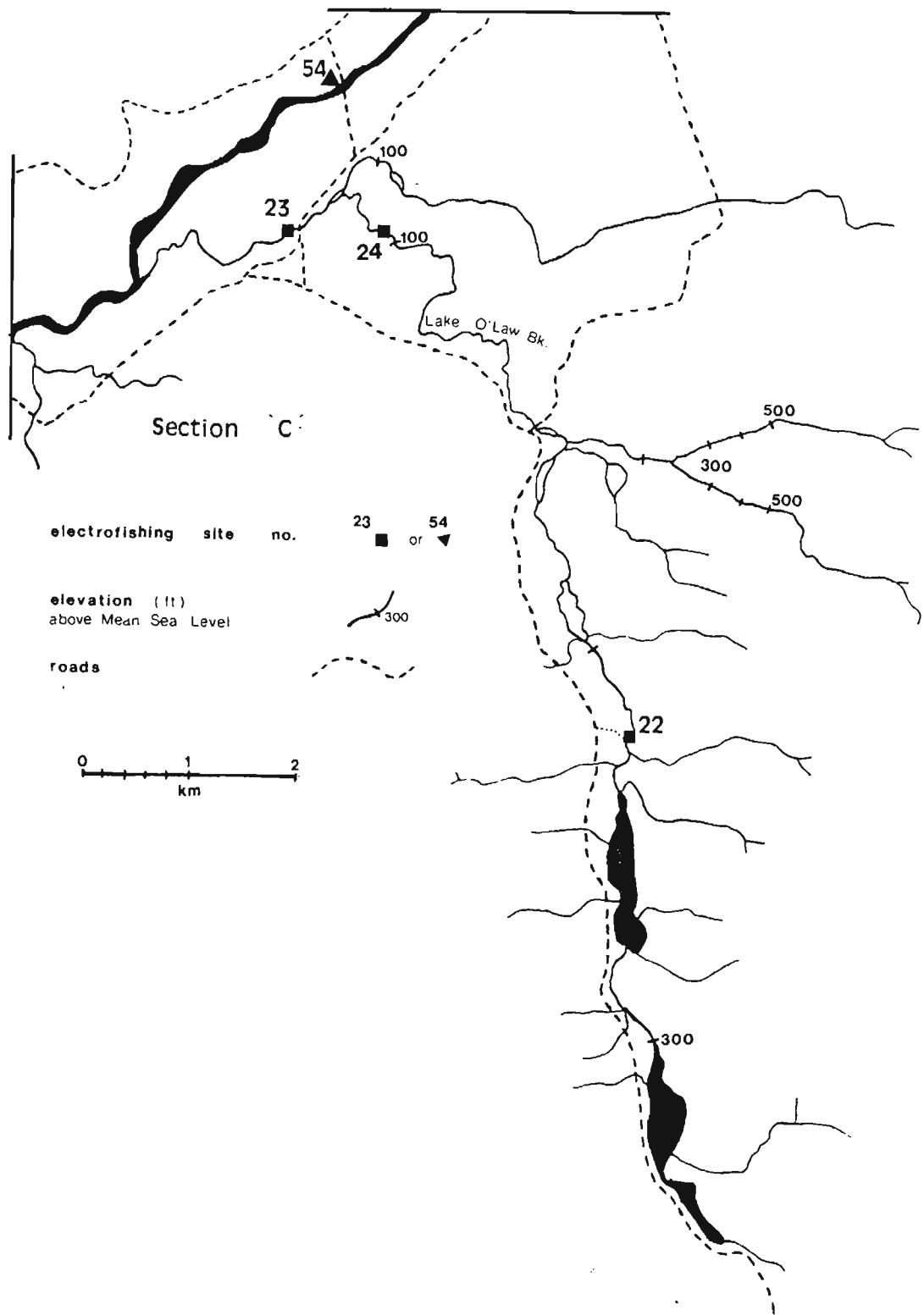


Figure 4. Sampling sites from Lake O'Law Brook (squares) and Northeast Margaree River (triangles).

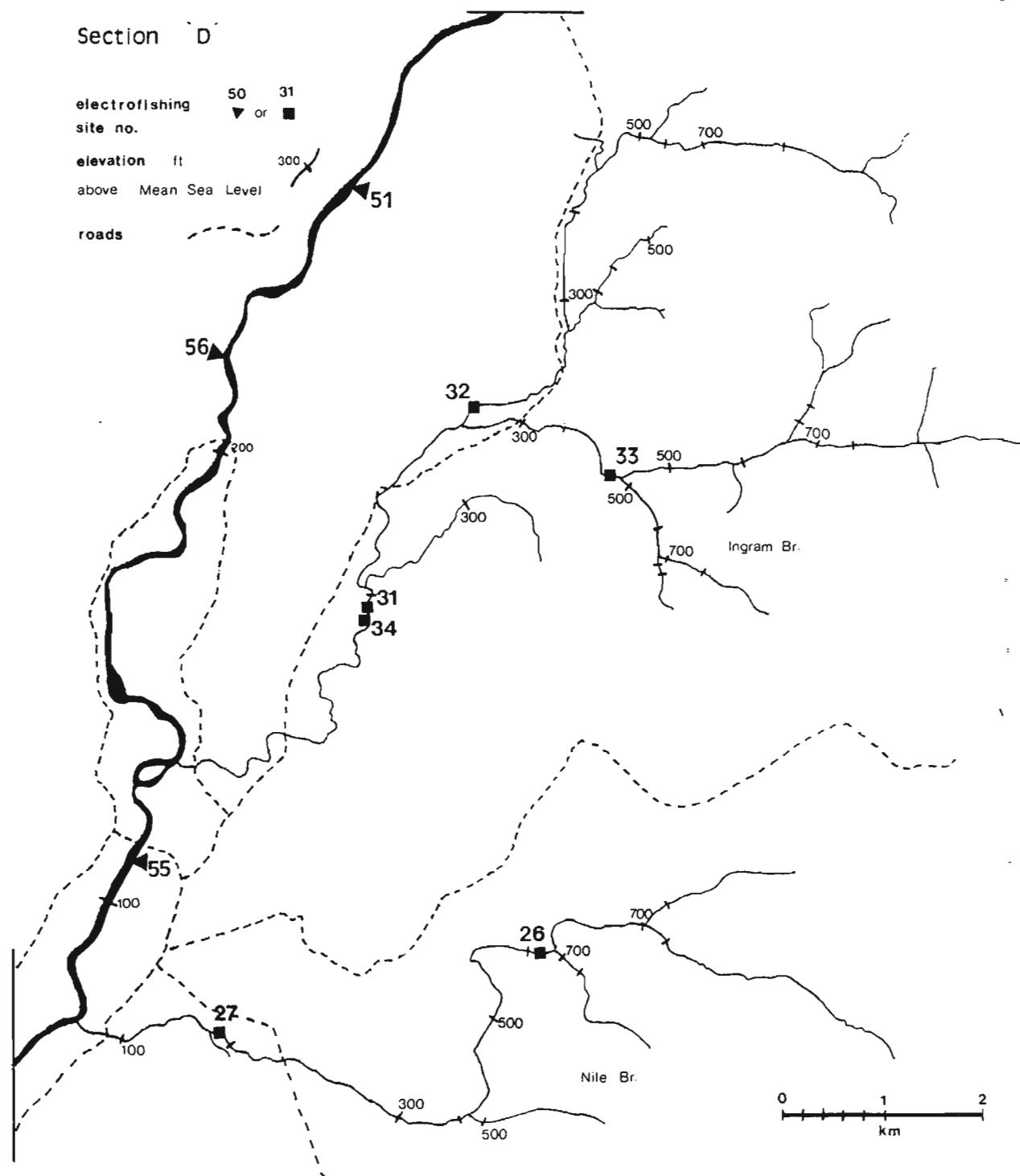


Figure 5. Sampling sites from Nile Brook, Ingram Brook (squares) and Northeast Margaree River (triangles).

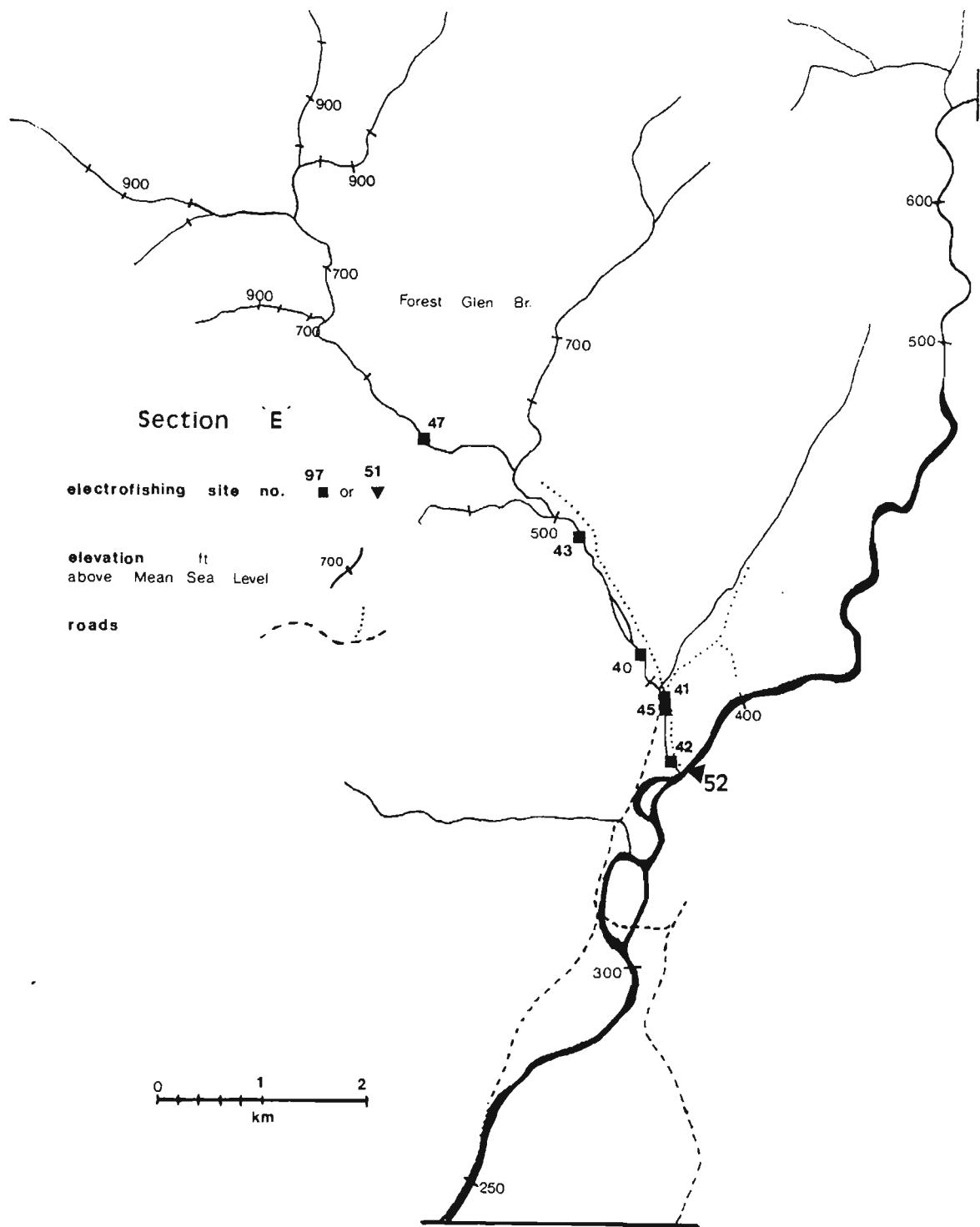


Figure 6. Sampling sites from Forest Glen Brook (squares) and Northeast Margaree River (triangle).

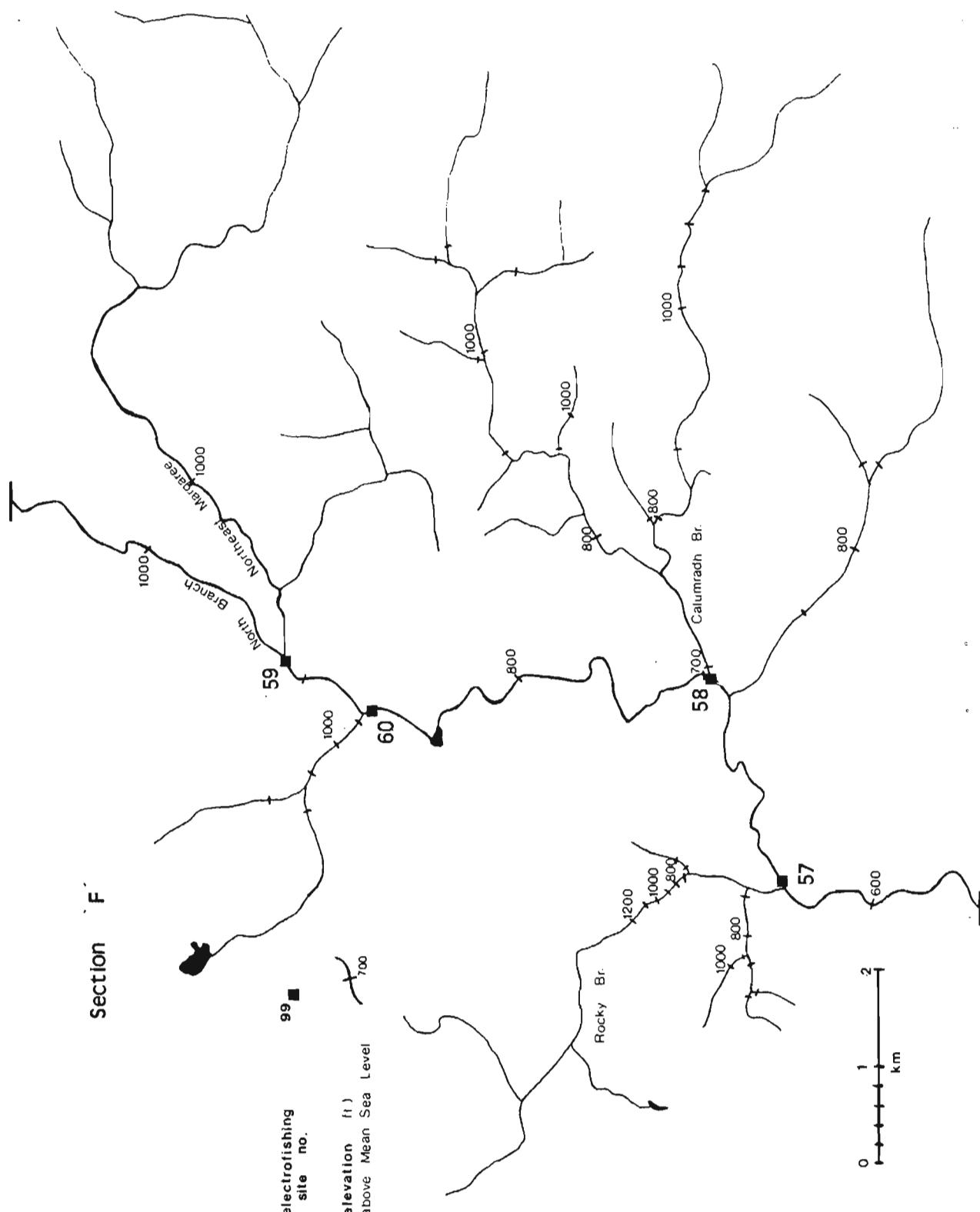


Figure 7. Sampling sites from headwaters of Northeast Margaree River.

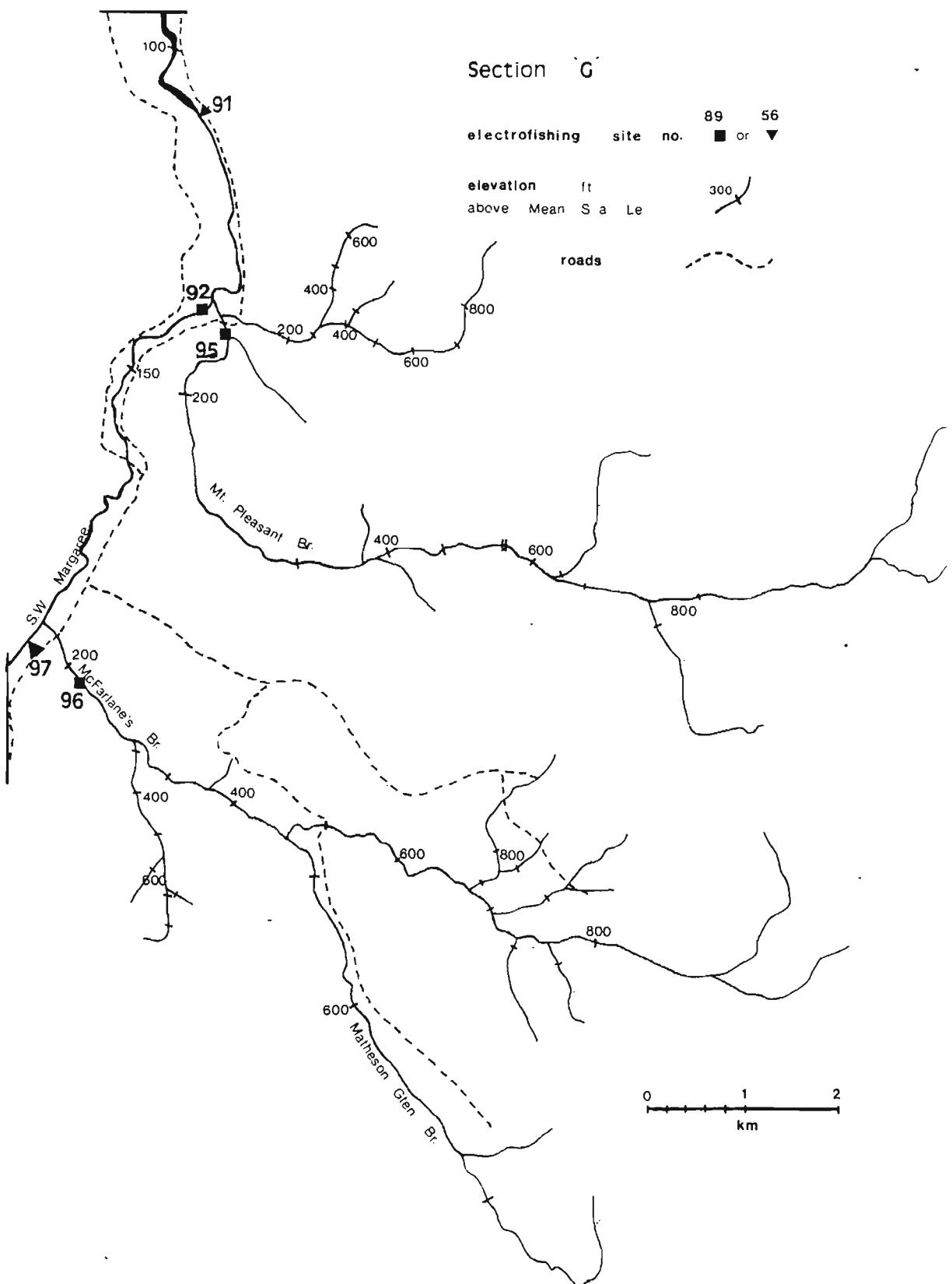


Figure 8. Sampling sites from Southwest Margaree River (triangles) and tributaries (squares).

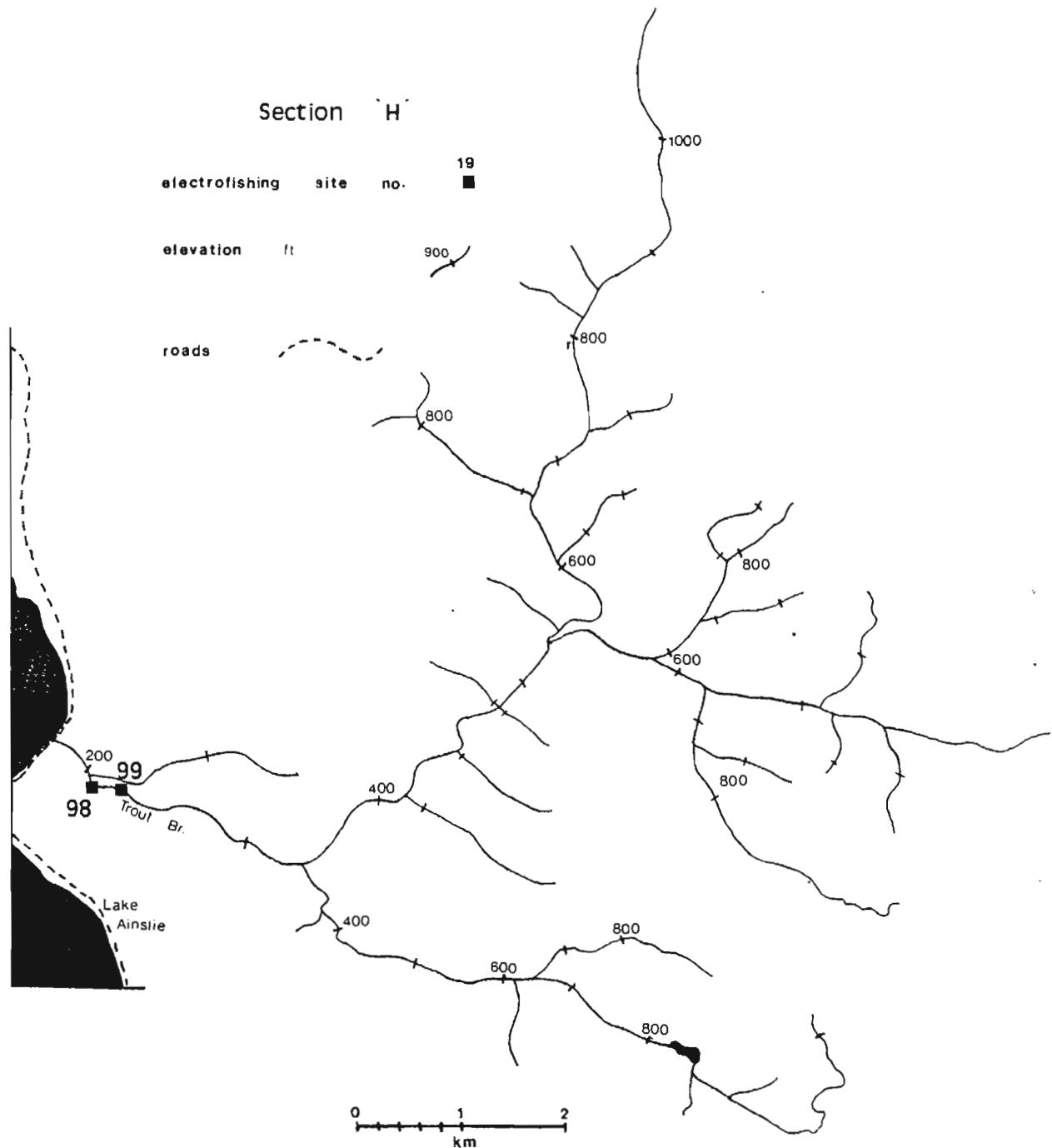


Figure 9. Sampling sites from Trout Brook.

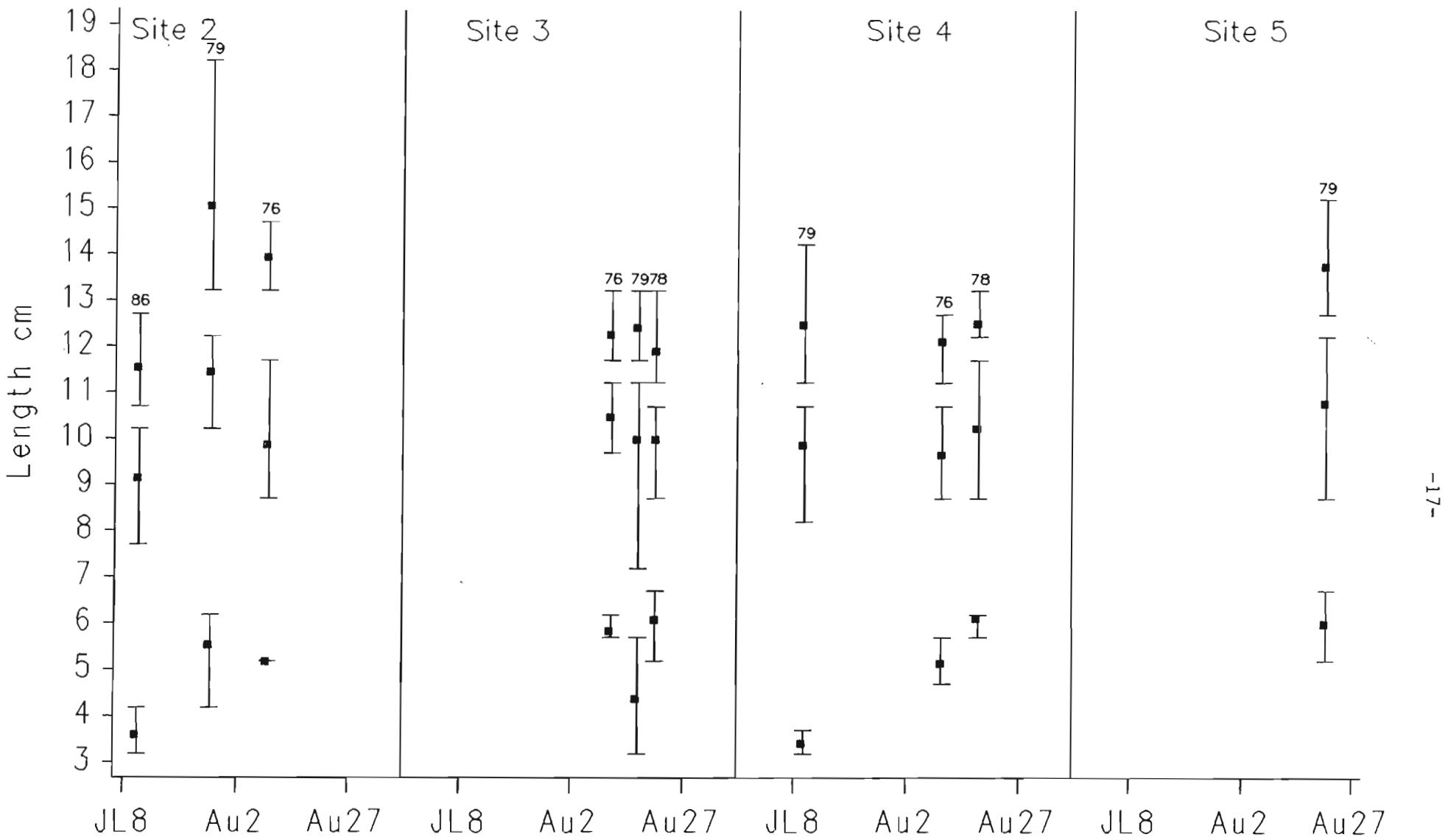


Figure 10. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Table 21, used in population estimates of Atlantic salmon from Gallant River sites, 1976 to 1986. Horizontal axis is sampling date (month day).

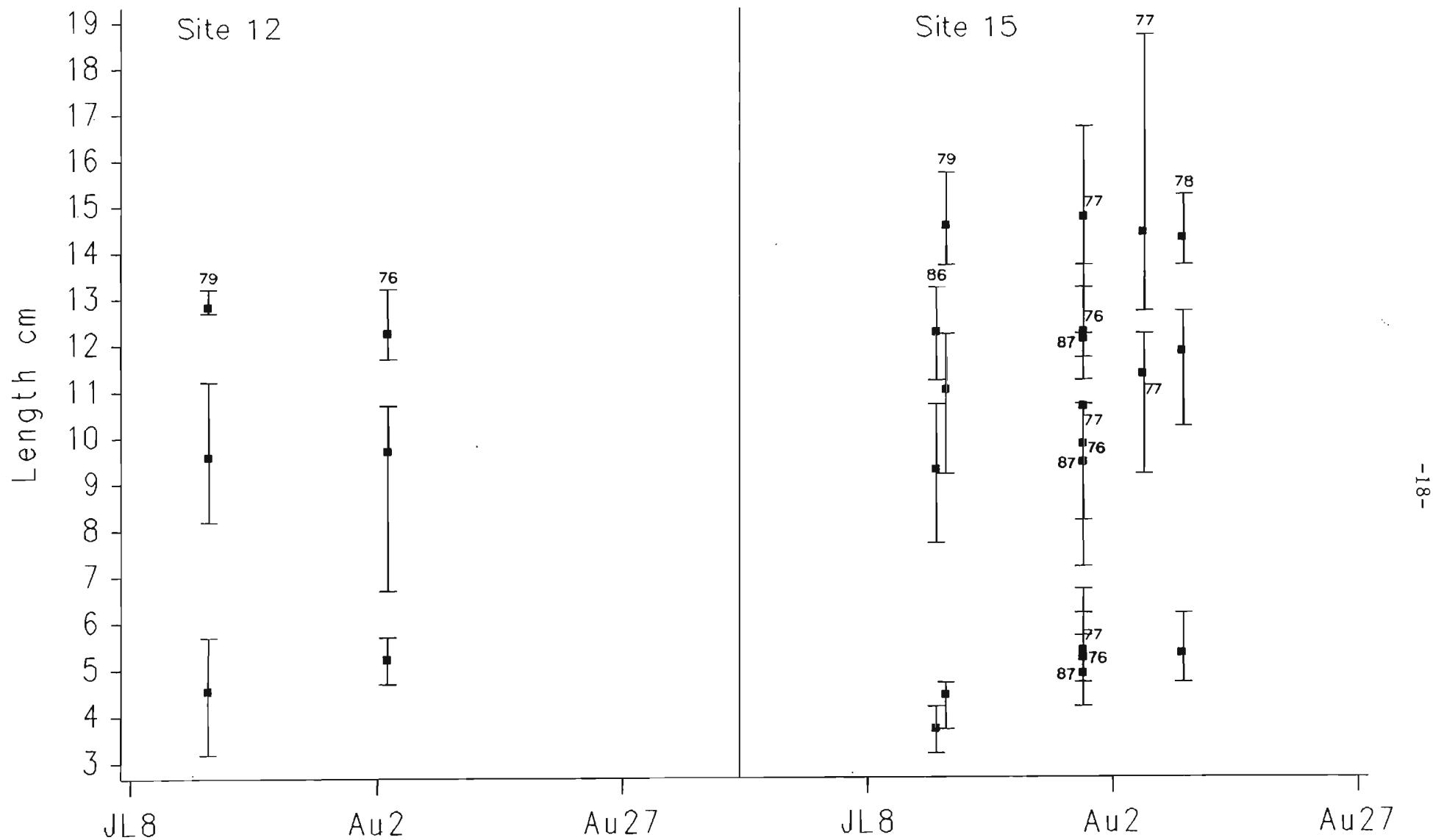


Figure 11. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Table 22, used in population estimates of Atlantic salmon from Big Brook sites, 1976 to 1987. Horizontal axis is sampling date (month day).

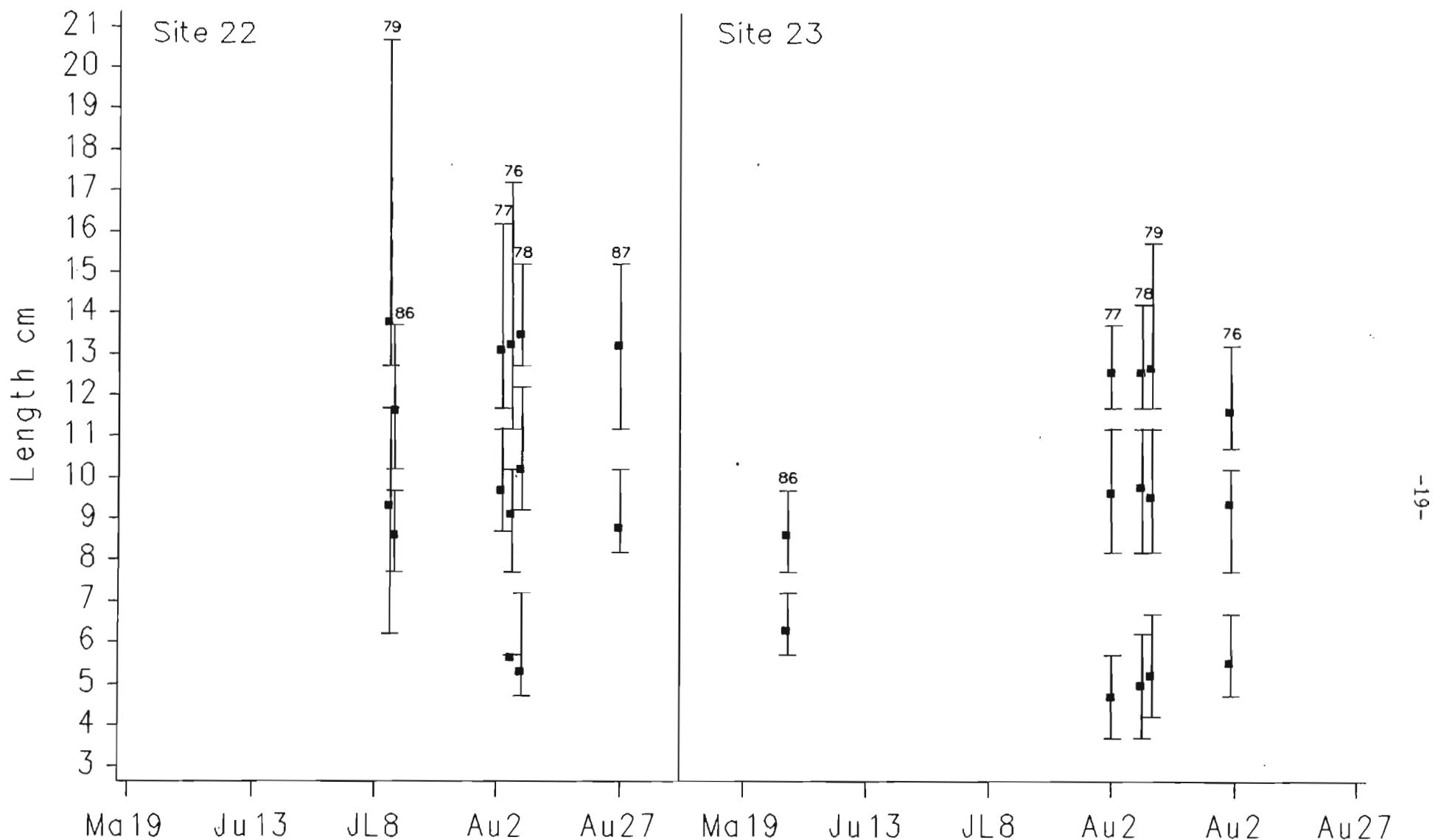


Figure 12. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Table 23, used in population estimates of Atlantic salmon from Lake O'Law Brook sites, 1976 to 1987. Horizontal axis is sampling date (month day).

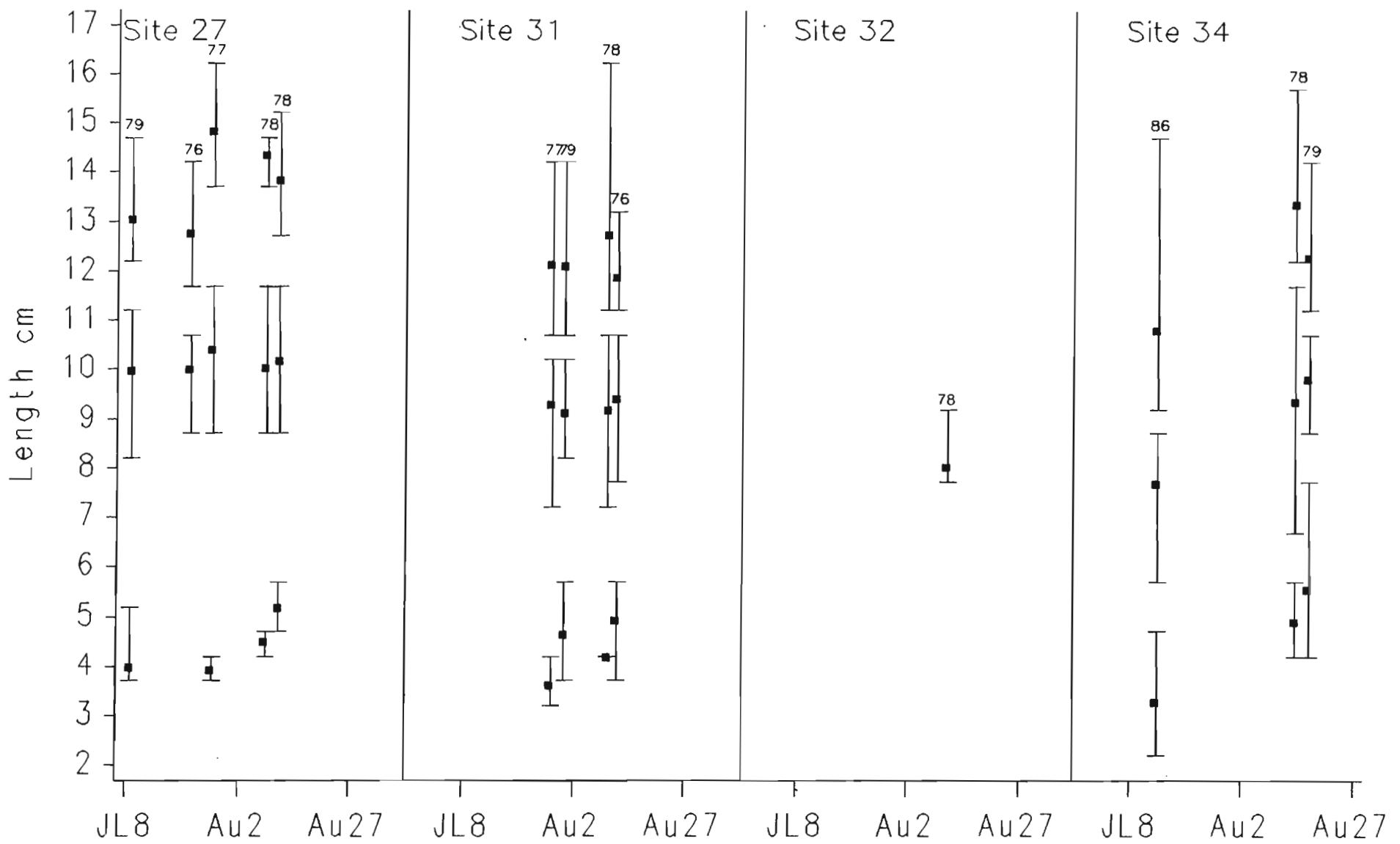


Figure 13. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Table 24, used in population estimates of Atlantic salmon from Nile Brook and Ingram Brook sites, 1976 to 1986. Horizontal axis is sampling date (month day).

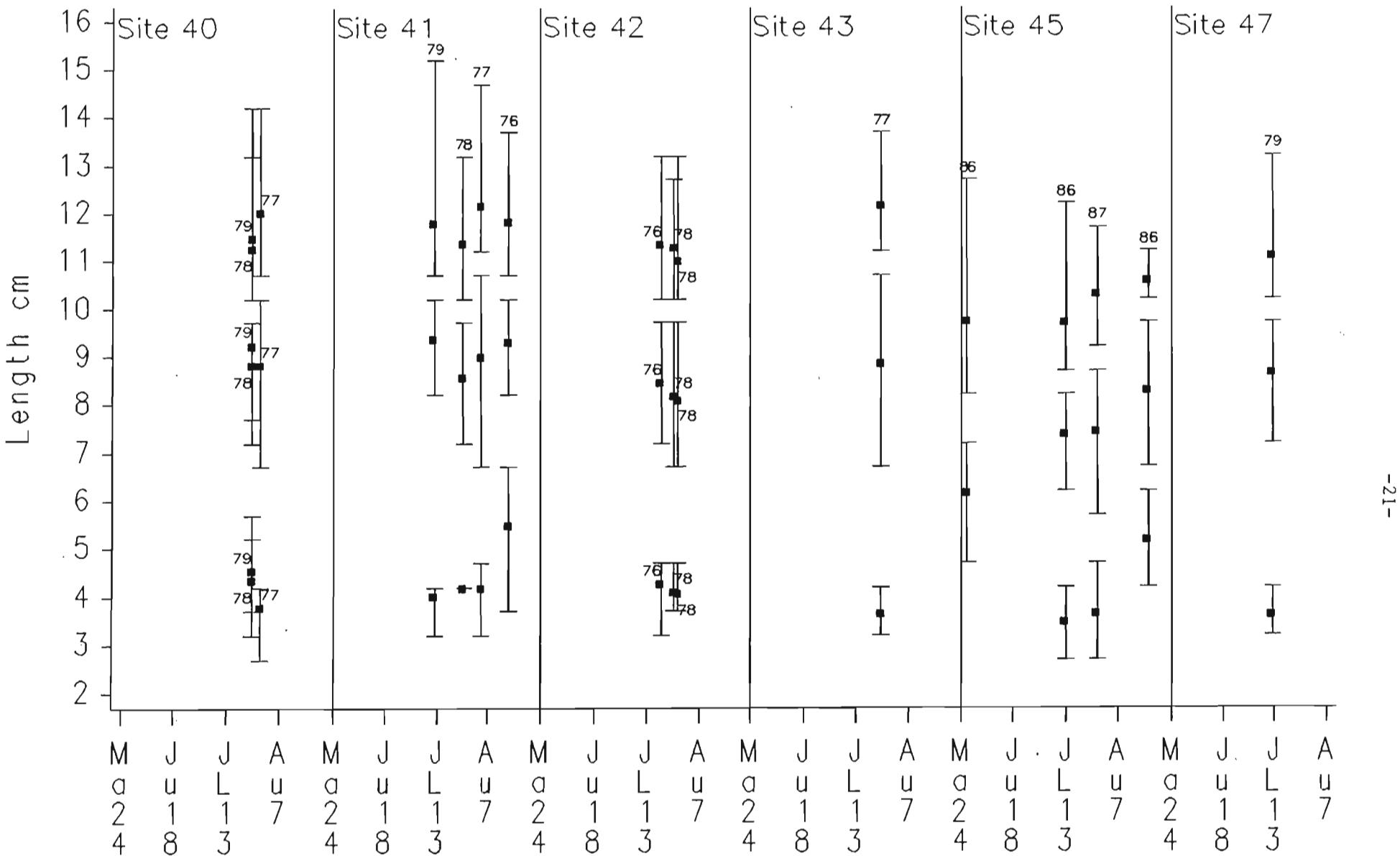


Figure 14. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Table 25, used in population estimates of Atlantic salmon from Forest Glen Brook sites, 1976 to 1987. Horizontal axis is sampling date (month day).

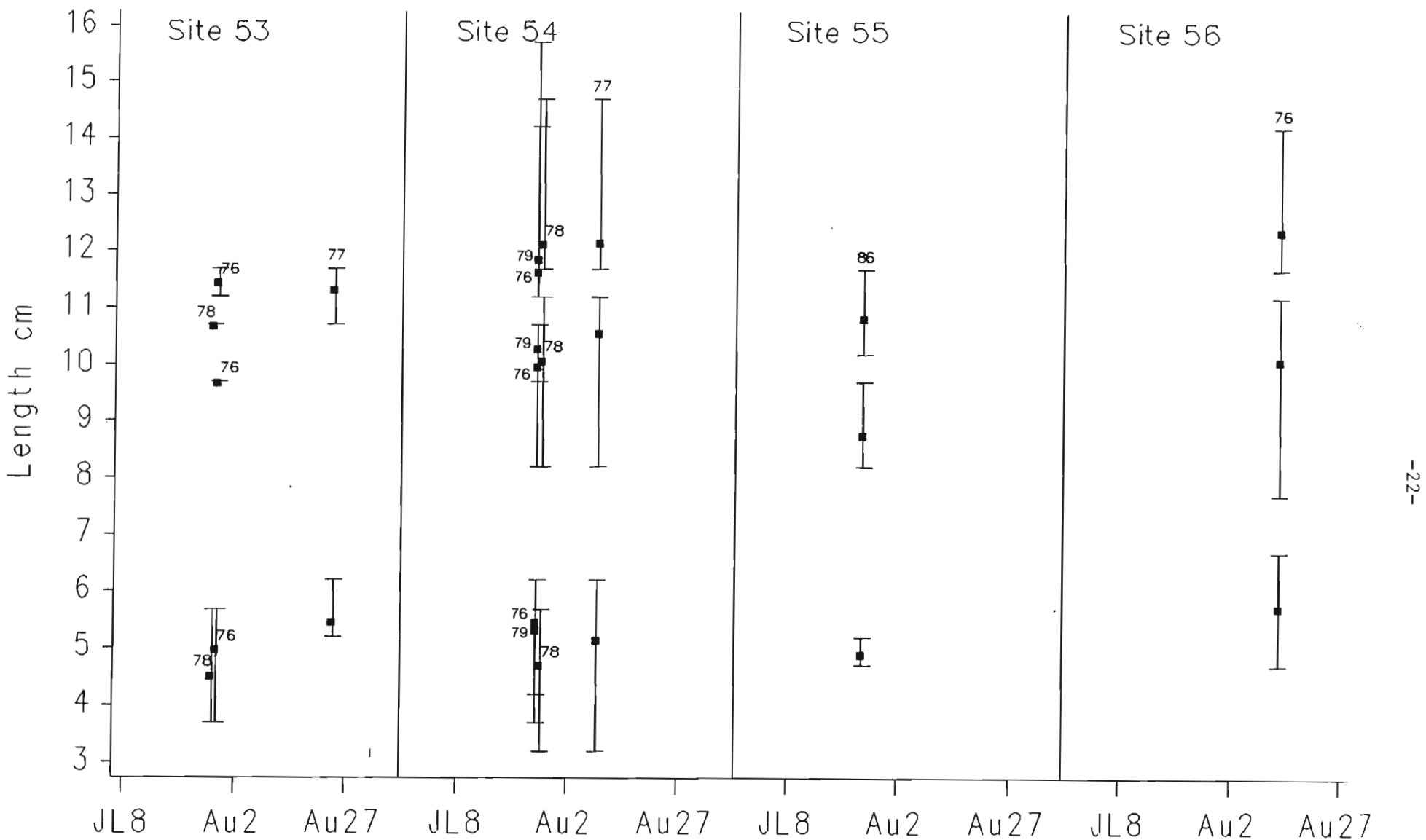


Figure 15. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Tables 26 and 27, used in population estimates of Atlantic salmon from Northeast Margaree, main river sites, 1976 to 1986. Horizontal axis is sampling date (month day).

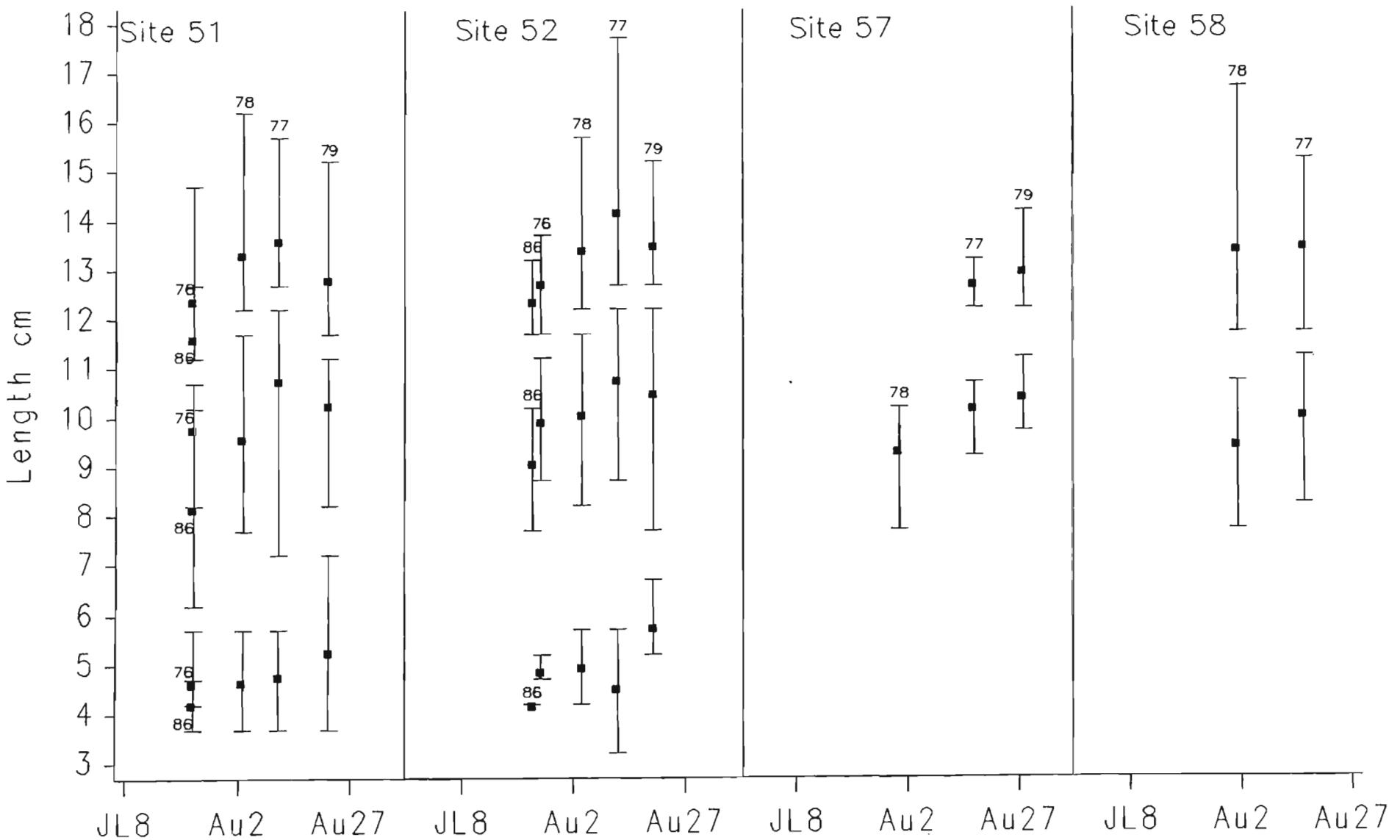


Figure 16. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Tables 27 and 28, used in population estimates of Atlantic salmon from Northeast Margaree, main river sites, 1976 to 1986. Horizontal axis is sampling date (month day).

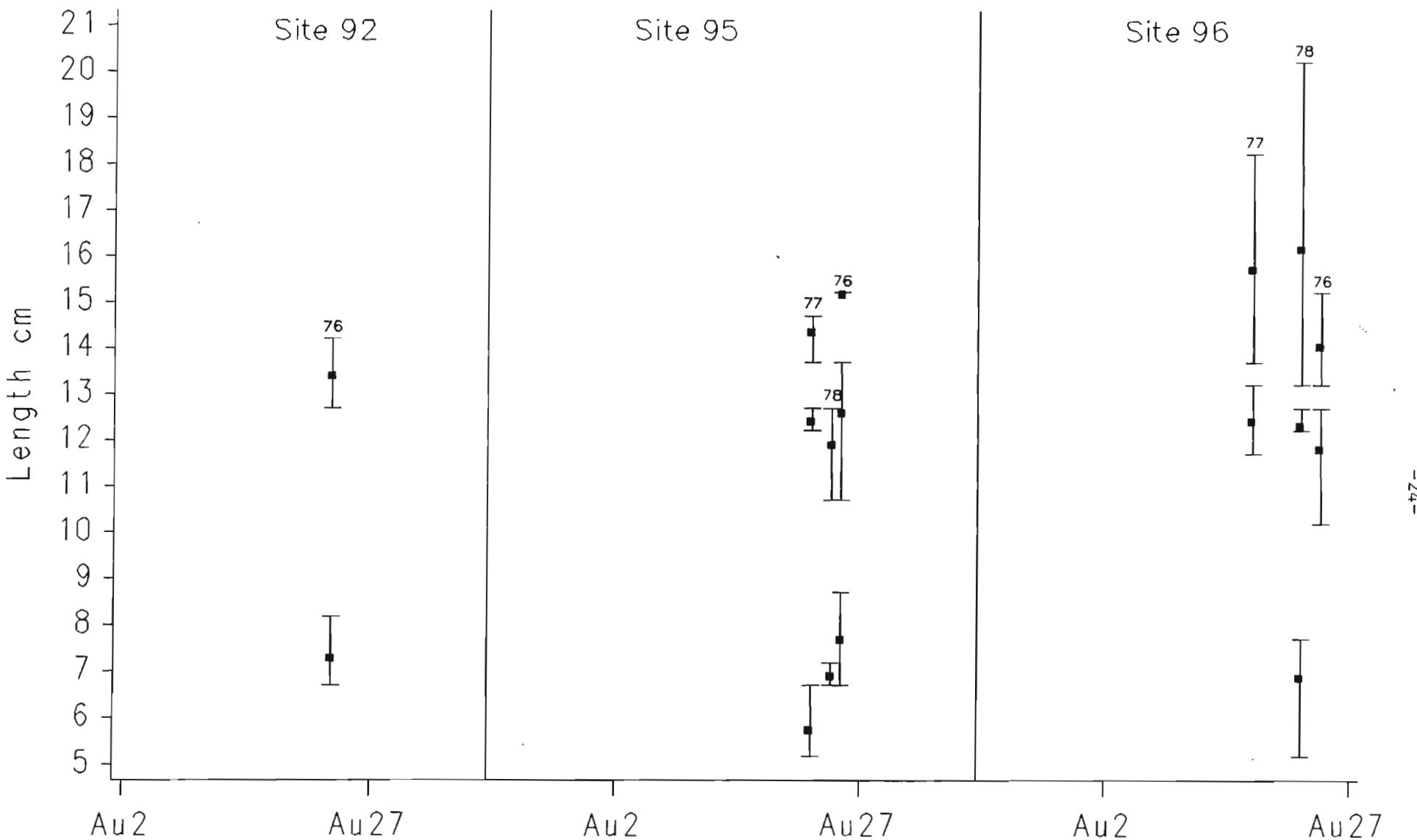


Figure 17. Mean length (cm) and range of fry, small parr and large parr size categories, as determined from length frequencies in Table 29, used in population estimates of Atlantic salmon from Southwest Margaree, 1976 to 1986. Horizontal axis is sampling date (month day).

Table 1. Site characteristics of electrofishing stations from the Margaree River, 1957 to 1987. Site numbers are indicated in figures 1 to 7. Area is in square metres. Specific conductance is expressed as uS/cm and temperature is degrees centigrade.

Site #	Site Name	Years Sampled	Range				
			Site Area m ²	pH	Specific Conduct.	Water Temp.	Stream Order
Gallant River	2 steel.bridge	1964-68, 1975-79, 1986	200.1-371.9	8.2-8.4	70-99	6.5-21.0	3
	3 burtons.farm	1964-68, 1975-79	234.1-360.3	8.1	72-88	6.9-17.3	3
	4 ron.barr.camp	1966-68, 1975-79	126.9-227.3	7.5-7.6	68-87	10.5-17.5	3
	5 highway.bridge	1979	375.0		64	15	3
Big Brook	12 cabot.bridge	1975-76, 1979	338.5-393.9	6.2-7.2	110-140	14.5-19.7	3
	13 upper.ford	1975-76	130.7-231.2	7.2-7.7	80-82	12.3-16.0	2
	14 coady.brook	1964-67	125.4-150.5			12.5-17.5	3
	15 dunn's.farm	1964-68, 1975-1979, 1986-87	285.1-464.5	6.2-6.8	78-111	8.0-18.6	3
Tompkins Brook	18 salt.brook	1963-1967	110.3-138.9			11.8-12.0	3
	19 cabot.bridge	1975-76	87.2-178.6	6.8	49-50	13.5-14.5	3
Lake O'Law Brook	22 below.lake	1963-68, 1975-79, 1986-87	180.9-347.7	7.3-7.5	70-90	14.8-22.0	2
	23 macleods	1975-79, 1986	249.0-805.6	7.8	155-280	12.0-17.5	3
	24 hart's.mill	1964-68	153.0-245.8			10.0-17.5	3
Nile Brook	26 ron.barr	1964, 1966-68, 1975-76	126.4-194.6	7.7	75-90	9.0-13.8	2
	27 shavings.road	1964, 1966-68, 1975-79	120.5-279.4	6.6-7.4	200-290	7.0-16.0	2
Ingram Brook	31 black's.farm	1964-68, 1975-79	159.4-207.2	7.2-7.7	60-130	7.0-18.5	4
	32 drakes.brook	1964-67, 1975-76, 1978	103.7-120.4	7.3-7.8	65-80	8.3-13.5	3
	33 maggie.ranald	1964-67, 1975	126.8-416.0			7.0-11.5	3
	34 macdonald's	1975-76, 1978-79, 1986	296.8-431.9		60-98	11.5-14.0	4
Forest Glen Brook	40 red.bridge#1	1957-61, 1963-64, 1966-69, 1975, 1978	173.9-558.0				3
	41 red.bridge#2	1957-62, 1964, 1966-69, 1975-79	167.2-323.0				3
	42 station#4	1957-61, 1964, 1966-69, 1975-79	173.1-421.6				3
	43 station#3	1957-61, 1964, 1966-69, 1977	183.9-872.0		50	13.5-20.0	3
	45 split.site	1986-87	275.7-357.2		62	12.5-17.0	3
	47 rosen.black	1979	243.7		50	16.8	3
Northeast Margaree	53 doyles.bridge	1963-69, 1975-78	306.6-682.8	6.5-6.8	275-460	15.0-22.1	5
	54 cranton.bridge	1957-61, 1963, 1965-68, 1975-79	292.6-1016.8	6.4	160-260	14.0-21.0	5
	55 ingram.bridge	1986	304.9			15.0	5
	56 tent.pool	1975-76	574.6-609.9	7.6-7.9	86-130	19.4-20.0	4
	51 old.bridge	1957-61, 1963, 1965-69 1975-79, 1986	254.2-1136.0	6.2-7.5	48-69	12.0-21.0	4
	52 macleods	1957-61, 1963, 1965-69, 1975-79, 1986	486.3-823.7	6.5-7.5	25-58	10.6-20.0	4
	57 rocky.brook	1968-69, 1977-79	168.8-229.7			10.0-14.0	4
	58 calumruadh.br	1967-69, 1977-78	223.0-471.0			14.4-19.0	4
	59 two.brooks	1968-69	213.2			11.1-13.8	4
	60 false.campbell	1968-69	195.1			11.5-17.0	4
Southwest Margaree	90 church.interval	1975-76	514.5-557.2	7.7-8.1	192-220	16.5-16.7	4
	91 mile 3	1966-67	689.8-898.8			20.3-22.8	4
	92 site #2	1975-76	736.5-805.6	8.0-8.6	160-169	19.0-23.5	4
	93 mckenzie.farm	1957	564.4			*	
	97 pipers.glen	1957, 1959-61, 1964-67	988.5-1032.6			11.1-22.5	4
Mt. Pleasant Brook	95	1975-78	419.9-535.4	7.2-7.8	56-82	13.4-16.0	2
MacFarlanes Brook	96 matheson.glen	1975-78	362.9-837.0	6.8-7.7	45-68	12.0-17.3	3
Trout Brook	98 station #1	1981	157.6		57	12.0	4
	99 station #2	1981-86	97.0-571.5	6.7-7.3	47-68	9.0-18.2	4

* Site could not be located on map thus no stream order available.

Table 2. Catch, density and population estimate statistics of Atlantic salmon electrofished at Gallant River sites, 1964 to 1986. Site #'s refer to those in Table 1 and Figure 2. Area is expressed as metres square. Fry refers to young-of-the-year and parr have been divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling intervals.

Table 3. Catch, density and population estimate statistics of Atlantic salmon electrofished at Big Brook and Tompkins Brook sites, 1964 to 1987. Site #'s refer to those in Table 1 and Figure 2. Area is expressed as square metres. Fry refers to young-of-the-year and parr have been divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling intervals.

Site #	Year	Date	Area	# of Sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		P	G	Estimated Density
							N	Var.	lower	upper			
12	1975	Aug. 5	382.5	5	fry	3							0.8
					parr sm	79	80.4	3.41	76.7	84.1	0.56	0.89	20.7
					parr lg	2							0.5
1976		Aug. 3	338.5	6	fry	89	108.7	135.71	85.4	132.0	0.25	2.27	32.1
					parr sm	26	26.8	3.79			0.44	2.27	7.9
					parr lg	6							1.8
1979		July 16	393.9	3	fry	108	117.6	34.80	105.8	129.4	0.57	1.51	29.9
					parr sm	66	71.3	20.40	62.3	80.3	0.58	0.19	18.1
					parr lg	3							0.8
13	1975	Aug. 6	130.7	4	fry	0							
					parr	0							
1976		Aug. 4	231.2	4	fry	0							
					parr	0							
14	1964	Aug. 21	150.5	4	fry	0							
					parr	0							
	1965	Aug. 24	125.4	6	fry	0							
					parr	0							
	1966	July 29	125.4	6	fry	0							
					parr	0							
1967		Aug. 22	125.4	5	fry	0							
					parr	0							
15	1964	Sept. 29	285.1	6	fry	11	11.2	0.06			0.50	3.25	3.9
					parr sm	61	61.1	0.02	60.9	61.4	0.64	8.59	21.4
					parr lg	71	71.2	0.03	70.8	71.5	0.64	3.22	25.0
	1965	Aug. 19	334.5	6	fry	216	219.7	6.53	214.6	224.8	0.49	9.76 *	65.7
					parr	98	98.1	0.01	97.9	98.4	0.67	11.95 *	29.3
	1966	Aug. 18	459.9	5	fry	64	67.3	10.08	61.0	73.7	0.45	4.37	14.6
					parr	243	244.3	2.44	241.2	247.5	0.65	10.39 *	53.1
	1967	Aug. 21	376.3	6	fry	10	13.9	-193.09			0.19	3.44	3.7
					parr	237	237.3	0.32	236.2	238.5	0.67	4.35	63.1
	1968	Sept. 20	320.2	6	fry	57	58.7	4.98	54.3	63.2	0.44	2.08	18.3
					parr	207	207.0	<0.01	207.0	207.0	0.81	1.35	64.6
1975	July 31	445.5	5	fry		2							0.4
					parr sm	0							
					parr lg	1							0.2
	1976	July 30	405.0	3	fry	19	20.4	14.78			0.59	<0.01	5.0
					parr sm	1							0.2
1977		Aug. 5	464.5	4	fry	0							1.7
					parr sm	24	29.5	73.37			0.34	3.12	6.4
					parr lg	4							0.9
1978		Aug. 9	326.1	3	fry	6							1.8
					parr sm	18	18.7	5.86			0.66	0.62	5.7
					parr lg	4							1.2
1979	July 16	320.8	3	fry		19	21.0	23.54			0.54	0.19	6.5
					parr sm	19	19.4	1.02			0.72	0.01	6.0
					parr lg	5							1.6
1986	July 15	331.5	4	fry		54	55.1	3.33	51.4	58.7	0.63	4.13	16.6
					parr sm	53	58.1	22.08	48.8	67.5	0.45	1.53	17.5
					parr lg	5							1.5
1987	July 30	312.8	4	fry		144	146.0	4.05	142.0	150.0	0.66	10.18 *	46.7
					parr sm	55	55.8	2.43	52.7	58.9	0.65	2.65	17.8
					parr lg	10	10.0	<0.01			0.76	1.77	3.2

Table 3 (cont'd).

Site #	Year	Date	Area	# of Sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		Estimated Density	
							N	Var.	lower	upper	P	G
18	1963	Sept. 4	137.9	4	fry	0						
					parr	12	12.0	<0.01			0.80	1.39
	1964	Aug. 20	110.3	6	fry	0						
					parr	8						7.2
	1965	Aug. 13	110.3	6	fry	0						
					parr	2						1.8
19	1966	Aug. 12	138.9	5	fry	0						
					parr	0						
	1967	Aug. 11	111.2	5	fry	0						
					parr	1						0.9
	1975	Aug. 1	178.6	5	fry	0						
					parr sm	0						
					lg	0						
	1976	Aug. 4	87.2	4	fry	0						
					parr sm	0						
					lg	0						

Table 4. Catch, density and population estimate statistics of Atlantic salmon electrofished at Lake O'Law Brook sites, 1964 to 1987. Site #'s refer to those in Table 1 and Figure 4. Area is expressed as metres square. Fry refers to young-of-the-year and parr are divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling periods.

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.			P	G	Estimated Density
							N	var.	lower	upper				
22	1963	Sept. 24	303.5	5	fry	7								2.3
					parr	85	85.1	<0.01	85.0	85.2	0.69	8.68 *	28.0	
	1964	Aug. 11	331.1	6	fry	155	164.4	24.21	154.5	174.2	0.38	2.21	49.7	
					parr	131	131.1	<0.01	131.0	131.1	0.72	7.93	39.6	
	1966	Aug. 23	193.1	5	fry	54	54.3	0.19	53.4	55.1	0.66	5.51	28.1	
					parr	112	112.0	<0.01	112.0	112.0	0.82	2.54	58.0	
	1967	Aug. 18	259.2	6	fry	99	103.9	12.82	96.8	111.1	0.40	2.75	40.1	
					parr	63	63.0	<0.01	63.0	63.1	0.72	3.67	24.3	
	1968	Aug. 15	245.8	6	fry	96	99.2	7.52	93.7	104.7	0.44	11.87 *	40.4	
					parr	67	67.0	<0.01	67.0	67.1	0.71	3.65	27.3	
	1975	Aug. 7	256.9		fry	0								
					parr sm	66	67.2	3.25	63.6	70.8	0.64	0.99	26.2	
					lg	27	27.1	<0.01			0.76	0.83	10.5	
	1976	Aug. 5	261.4	4	fry	2								0.8
					parr sm	60	63.7	12.30	56.7	70.7	0.51	0.08	24.4	
					lg	15	16.0	13.75			0.50	1.78	6.1	
	1977	Aug. 3	347.7	3	fry	0								
					parr sm	35	50.4	391.88	10.8	90.0	0.33	0.12	14.5	
					lg	13	14.5	83.00			0.53	0.88	4.2	
	1978	Aug. 7	310.2	4	fry	116	123.1	19.87	114.2	132.0	0.51	4.58	39.7	
					parr sm	65	69.5	15.07	61.7	77.2	0.50	0.55	22.4	
					lg	8							2.6	
	1979	July 11	347.6	3	fry	0								
					parr sm	100	104.3	11.71	97.5	111.2	0.65	0.20	30.0	
					lg	10	10.1	<0.01			0.82	0.70	2.9	
	1986	July 12	246.1	4	fry	0								9.6
					parr sm	20	23.7	48.62			0.37	1.06		
					lg	28	32.0	30.07			0.41	4.97	13.0	
	1987	July 27	180.9	4	fry	0								24.8
					parr sm	41	44.9	18.19			0.46	4.19		
					lg	12	12.4	0.76			0.59	1.43	6.9	
23	1975	Aug. 8	471.6	5	fry	211	228.0	49.84	213.9	242.1	0.40	2.11	48.3	
					sm	77	79.4	6.11	74.5	84.4	0.50	2.06	16.8	
					lg	30	34.4	31.67			0.34	4.36	7.3	
	1976	Aug. 26	805.6	3	fry	156	171.8	58.83	156.5	187.2	0.55	0.77	21.3	
					parr sm	84	87.1	8.59	81.3	93.0	0.67	0.72	10.8	
					lg	17	18.9	27.71			0.54	0.04	2.3	
	1977	Aug. 2	487.3	4	fry	176	207.2	167.64	181.3	233.1	0.38	1.89	42.5	
					parr sm	79	93.4	88.11	74.6	112.2	0.37	0.61	19.2	
					lg	11							2.3	
	1978	Aug. 8	415.0	4	fry	208	214.0	11.97	207.1	220.9	0.59	0.96	51.6	
					parr sm	123	126.1	6.65	120.9	131.2	0.61	3.79	30.4	
					lg	17	18.3	14.70			0.48	5.16	4.4	
	1979	Aug. 10	498.7	4	fry	404	485.1	466.07	441.9	528.2	0.36	0.04	97.3	
					parr sm	139	145.9	17.41	137.6	154.3	0.53	3.05	29.3	
					lg	19	19.3	0.28			0.65	2.68	3.9	
	1986	May 28	249.0	4	fry	0								10.4
					parr sm	26								5.6
					lg	14								
24	1964	Oct. 6	165.6	5	fry	180	180.9	1.78	178.2	183.5	0.66	7.03	109.2	
					parr sm	156	159.1	6.12	154.2	164.1	0.54	20.76 *	96.1	
					lg	46	47.3	4.15			0.51	6.43	28.6	
	1965	Sept. 22	180.6	6	fry	123	124.7	3.59	121.0	128.5	0.51	5.99	69.0	
					parr	140	142.6	5.16	138.1	147.2	0.49	3.53	79.0	
	1966	Aug. 1	150.5	6	fry	210	236.9	105.03	216.4	257.4	0.30	2.74	157.4	
					parr	112	115.1	6.81	109.9	120.3	0.45	3.13	76.5	
	1967	Aug. 11	184.8	6	fry	168	205.8	246.80	174.4	237.2	0.25	10.22 *	111.4	
					parr	149	153.8	10.22	147.4	160.2	0.44	1.34	83.2	
	1968	Aug. 28	156.4	6	fry	163	201.4	263.65	168.9	233.9	0.24	17.51 *	128.8	
					parr	146	154.7	22.59	145.2	164.2	0.38	7.61	98.9	

Table 5. Catch, density and population estimate statistics of Atlantic salmon electrofished at Nile Brook sites, 1964 to 1979. Site #'s refer to those in Table 1 and Figure 5. Area is expressed as square metres. Fry refers to young-of-the-year and parr have been divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling intervals.

Site	#	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		P	G	Estimated Density
								N	var.	lower	upper			
26	1964	Aug. 19	173.1	6	fry		16	16.0	<0.01			0.76	0.55	9.2
					parr		49	49.0	<0.01			0.74	4.65	28.3
	1966	Aug. 23	153.8	5	fry		2							1.3
					parr		44	44.1	<0.01			0.73	4.82	28.7
	1967	Aug. 10	173.1	6	fry		117	117.5	0.88	115.6	119.4	0.60	10.95 *	67.9
					parr		58	58.0	<0.01	58.0	58.1	0.72	9.11	33.5
	1968	Sept. 10	194.8	6	fry		0							
					parr		99	99.2	0.07	98.7	99.7	0.65	13.45 *	50.9
	1975	Aug. 20	160.0	5	fry		0							
					parr sm		0							
27					lg		11	13.6	-541.48			0.28	0.83	8.5
	1976	Aug. 19	126.4	3	fry		0							
					parr sm		0							
					lg		4							3.2
	1964	Oct. 6	147.2	4	fry		53	53.2	0.10	52.6	53.9	0.75	0.74	36.2
					parr sm		76	76.0	<0.01	76.0	76.0	0.89	2.12	51.7
					lg		29	29.0	<0.01			0.88	1.09	19.7
	1966	Aug. 15	147.2	5	fry		11	11.5	2.55			0.47	1.07	7.8
					parr		132	132.1	<0.01	132.0	132.2	0.78	0.70	89.8
	1967	Aug. 10	128.8	6	fry		6							4.7
28					parr		97	99.1	4.70	94.8	103.4	0.47	15.38 *	76.9
	1968	Sept. 9	279.3	6	fry		0							
					parr		130	130.4	0.61	128.8	132.0	0.62	0.70	46.7
	1975	Aug. 4	164.3	4	fry		0							
					parr sm		34	35.5	6.20			0.55	4.75	21.6
					lg		21	21.6	2.69			0.59	3.28	13.1
	1976	July 22	209.3	5	fry		0							2.9
					parr sm		6							5.7
					lg		12							
	1977	July 27	206.0	4	fry		2							1.0
29					parr sm		21	22.6	0.03			0.48	0.63	11.0
					lg		3							1.5
	1978	Aug. 8	171.4	3	fry		3							1.8
					parr sm		30	30.8	3.49			0.71	0.03	18.0
					lg		3							1.8
	1978	Aug. 11	171.4	3	fry		2							1.2
					parr sm		33	37.0	26.31			0.52	0.11	21.6
					lg		6							3.5
	1979	July 9	210.9	4	fry		5							2.4
					parr sm		15	15.1	<0.01			0.33		7.2
					lg		23	23.3	0.19			0.68	2.21	11.0

Table 6. Catch, density and population estimate statistics of Atlantic salmon electrofished at Ingram Brook sites, 1964 to 1986. Site #'s refer to those in Table 1 and Figure 5. Area is expressed as square metres. Fry refers to young-of-the-year and parr have been divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling periods.

Site #	Year	Date	Area	# of Sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		Estimated Density		
							N	var.	lower	upper	P	G	
31	1964	Oct. 8	187.3	4	fry	29	29.4	0.57			0.67	5.93	15.7
					parr sm	91	91.3	0.35	90.1	92.5	0.76	0.40	48.7
					lg	25	25.0	<0.01			0.80	0.37	13.3
	1965	Sept. 13	147.2	6	fry	33	33.5	1.14			0.51	2.37	22.8
					parr	102	102.1	<0.01	102.0	102.2	0.71	6.34	69.4
	1966	Sept. 1	170.6	6	fry	10	10.1	<0.01			0.58	2.34	5.9
					parr	74	74.1	0.01	73.9	74.3	0.66	10.10 *	43.4
	1967	Aug. 9	195.7	6	fry	6							3.1
					parr	60	60.1	0.02	59.9	60.4	0.64	4.55	30.7
	1968	Sept. 24	160.5	6	fry	110	110.2	0.13	109.5	111.0	0.64	6.01	68.7
					parr	49	49.0	<0.01			0.82	8.60	30.5
	1975	Aug. 14	182.0	6	fry	28	43.1	570.92			0.16	0.42	15.4
					parr sm	60	79.2	217.67	49.7	108.7	0.21	2.97	33.0
					lg	11	19.2	-540.64			0.13	4.76	6.0
	1976	Aug. 12	192.7	6	fry	44	57.4	159.56	32.2	82.7	0.22	2.40	29.8
					parr sm	70	72.4	6.27	67.4	77.4	0.43	4.64	37.6
					lg	43	44.2	4.03			0.45	3.90	22.9
	1977	July 28	207.2	5	fry	32	49.7	626.60			0.19	7.29	24.0
					parr sm	39	40.0	3.73			0.52	3.51	19.3
					lg	31	31.7	2.96			0.53	4.49	15.3
	1978	Aug. 10	184.3	3	fry	1							0.5
					parr sm	66	124.2	3795.27	1.0	247.5	0.22	1.51	67.4
					lg	14	14.2	0.12			0.75	0.34	7.7
	1979	July 31	194.7	7	fry	42	86.5	7036.05	-81.3	254.2	0.10	4.78	44.4
					parr sm	13							6.7
					lg	29	44.7	570.78			0.16	10.48	23.0
32	1964	Aug. 26	107.0	6	fry	10	10.5	2.77			0.40	7.85	9.8
					parr	19	19.1	<0.01			0.60	5.09	17.9
	1965	Oct. 13	129.6	6	fry	1							0.8
					parr	14	14.1	<0.01			0.60	5.61	10.9
	1966	Aug. 24	103.7	5	fry	0							
					parr	0							
	1967	Aug. 8	133.8	6	fry	0							
					parr	0							
	1975	Aug. 15	111.0	3	fry	2							1.8
					parr sm	8							7.2
					lg	5							4.5
	1976	Aug. 16	118.0	3	fry	0							2.5
					parr sm	0							
					lg	3							
	1978	Aug. 11	110.5	3	fry	0							8.1
					parr sm	9							
33	1964	Oct. 9	147.2	3	fry	0							1.4
					parr	2							
	1965	Oct. 13	129.6	5	fry	20	20.1	<0.01			0.68	0.96	15.5
					parr	2							1.5
	1966	Aug. 19	128.8	5	fry	0							
					parr	21	160.7	50.49	146.5	174.9	0.33	2.43	16.6
	1967	Aug. 8	128.8	5	fry	0							7.0
					parr	9							
	1975	Sept. 25	128.7	3	fry	0							2.3
					parr sm	3							1.6
					lg	2							
34	1975	Sept. 24	296.8	5	fry	279	364.7	774.58	309.1	420.4	0.25	4.04	122.9
					parr sm	203	260.6	482.32	216.7	304.5	0.26	1.96	87.8
					lg	38	39.0	3.59			0.52	5.71	13.1
	1976	Aug. 18	431.9	6	fry	85	173.9	6692.71	10.3	337.6	0.11	3.99	40.3
					parr sm	75	82.6	29.13	71.8	93.4	0.33	8.40	19.1
					lg	146	160.7				0.33	2.43	37.2
	1978	Aug. 14	110.5	3	fry	25	27.6	19.63			0.55	0.01	25.0
					parr sm	262	273.8	27.51	263.3	284.3	0.65	<0.01	247.8
					lg	35	36.0	4.17			0.70	0.06	32.6
	1979	Aug. 17	414.8	4	fry	131	140.8	29.46	129.9	151.6	0.49	0.68	33.9
					parr sm	51	53.0	6.32	47.9	58.0	0.56	1.93	12.8
					lg	106	112.8	19.94	103.9	121.8	0.50	1.42	27.2
	1986	July 14	398.2	4	fry	502	513.1	19.03	504.4	521.8	0.62	16.54 *	128.9
					parr sm	86	97.1	49.95	82.9	111.2	0.42	3.54	24.4
					lg	20	22.9	32.42			0.40	0.08	5.8

Table 7. Catch, density and population estimate statistics of Atlantic salmon electrofished at Forest Glen Brook sites, 1957 to 1987. Site #'s refer to those in Table 1 and Figure 6. Area is expressed as metres square. Fry refers to young-of-the-year and parr are divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling intervals. For site 45, 'a' is upstream section, 'b' is downstream adjacent section. See text for details of sampling at this site.

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		P	G	Estimated Density	
							N	var.	lower	upper				
40	1957	July 24	450.7	4	fry	9							2.0	
					parr	123	135.5	45.5	122	149	0.45	6.49 *	30.1	
	1958	July 25	409.7	6	fry	103	121.2	99.75	101.3	141.2	0.27	1.19	29.6	
					parr	70	72.6	7.04	67.3	77.9	0.42	1.41	17.7	
	1959	July 28	409.7	6	fry	191	210.1	63.21	194.2	226.0	0.33	11.27 *	51.3	
					parr	119	126.5	20.66	117.4	135.6	0.38	6.59	30.9	
	1960	July 21	409.7	6	fry	186	220.8	188.55	193.4	248.3	0.26	13.27 *	53.9	
					parr	132	139.8	20.54	130.8	148.9	0.38	1.29	34.1	
	1961	July 19	409.7	6	fry	162	174.4	35.60	162.4	186.3	0.36	8.44	42.6	
					parr	183	185.4	4.31	181.2	189.5	0.52	1.06	45.3	
	1963	Aug. 7	409.7	6	fry	200	228.8	123.94	206.6	251.1	0.29	2.55	55.8	
					parr	143	146.3	6.73	141.2	151.5	0.47	9.55 *	35.7	
	1964	July 24	459.9	5	fry	34	37.3	17.05			0.38	1.78	8.1	
					parr	253	256.7	6.33	251.7	261.7	0.57	2.28	55.8	
	1966	July 25	409.7	6	fry	256	260.4	7.52	254.9	265.9	0.49	31.30 *	63.6	
					parr	177	178.4	2.61	175.1	181.6	0.56	13.26 *	43.5	
	1967	July 27	368.7	6	fry	62	68.8	28.81	58.1	79.6	0.32	13.77 *	18.7	
					parr	219	222.4	5.97	217.5	227.3	0.50	14.33 *	60.3	
	1968	Sept. 13	250.8	6	fry	55	67.9	104.53	47.4	88.3	0.24	4.78	27.1	
					parr	224	224.1	0.02	223.9	224.4	0.71	9.75 *	89.4	
	1969	Aug. 14	173.9	6	fry	23	37.4	989.05			0.15	5.73	21.5	
					parr	159	161.4	4.55	157.1	165.7	0.50	14.84 *	92.8	
	1975	July 21	471.6	5	fry	451	529.7	387.57	490.3	569.1	0.32	2.57	112.3	
					parr	sm	121	132.7	40.47	120.0	145.4	0.38	3.10	28.1
					lg	15	15.1	<0.01			0.67	1.70	3.2	
	1978	July 26	286.4	4	fry	16	17.6	21.54			0.45	0.25	6.1	
					parr	sm	122	133.0	37.10	120.8	145.2	0.46	0.19	46.4
					lg	18	18.1	<0.01			0.74	0.57	6.3	
	1978	July 28	286.4	3	fry	9	9.5	9.93			0.62	2.96	3.3	
					parr	sm	73	92.8	195.67	64.8	120.8	0.40	0.03	32.4
					lg	12	15.2	-558.97			0.41	0.05	5.3	
41	1957	July 24	217.4	4	fry	50	72.2	439.11	30.3	114.1	0.26	0.79	33.2	
					parr	111	111.8	1.97	109.0	114.7	0.71	0.85	51.4	
	1958	July 26	217.4	6	fry	18	19.1	9.30			0.38	3.40	8.8	
					parr	130	131.3	2.67	128.0	134.5	0.54	10.66 *	60.4	
	1959	July 29	239.1	6	fry	123	226.0	4560.33	90.9	361.1	0.12	2.40	94.5	
					parr	107	109.0	4.32	104.8	113.2	0.49	1.12	45.6	
	1960	July 26	217.4	6	fry	65	75.5	58.04	60.3	90.8	0.28	9.14	34.7	
					parr	180	181.6	2.97	178.1	185.0	0.55	1.18	83.5	
	1961	July 20	217.4	6	fry	104	115.2	42.10	102.3	128.2	0.32	2.76	53.0	
					parr	183	183.1	<0.01	183.0	183.1	0.74	4.07	84.2	
	1962	July 30	229.9	5	fry	5							2.2	
					parr	139	139.5	0.82	137.7	141.3	0.68	4.33	60.7	
	1964	July 23	195.7	6	fry	30	30.0	<0.01			0.70	2.27	15.3	
					parr	177	177.0	<0.01	177.0	177.0	0.80	3.63	90.4	
	1966	July 26	195.7	6	fry	41	44.9	17.32			0.34	2.50	22.9	
					parr	204	204.4	0.71	202.8	206.1	0.64	7.74	104.4	
	1967	Aug. 7	209.0	6	fry	77	88.0	53.32	73.4	102.7	0.29	1.83	42.1	
					parr	236	240.4	7.68	234.8	245.9	0.49	2.77	115.0	
	1968	Aug. 9	157.2	6	fry	93	94.8	4.00	90.8	98.8	0.49	18.00 *	60.3	
					parr	216	216.5	1.01	214.5	218.6	0.63	10.40 *	137.7	
	1969	Aug. 13	167.2	6	fry	55	59.7	17.80	51.3	68.1	0.35	9.63	35.7	
					parr	141	144.9	8.03	139.2	150.6	0.45	2.41	86.7	
	1975	Sept. 23	271.8	6	fry	311	410.2	921.08	349.5	470.9	0.21	17.30 *	150.9	
					parr	sm	77	81.0	11.05	74.3	87.6	0.40	0.62	29.8
					lg	42	44.1	7.57			0.40	0.81	16.2	
	1976	Aug. 17	298.2	5	fry	180	214.9	197.67	186.7	243.0	0.30	17.54 *	72.1	
					parr	sm	73	87.3	92.75	68.1	106.6	0.30	4.53	29.3
					lg	35	36.8	7.19			0.46	9.66 *	12.3	
	1977	Aug. 4	323.0	5	fry	61	64.6	11.45	57.8	71.4	0.44	3.86	20.0	
					parr	sm	116	141.3	168.10	115.4	167.2	0.29	2.23	43.7
					lg	17	17.8	7.12			0.46	6.61	5.5	
	1978	July 26	269.1	4	fry	3							1.1	
					parr	sm	79	85.0	20.10	76.0	94.0	0.48	0.96	31.6
					lg	50	53.4	12.92	46.3	60.6	0.50	0.64	19.8	
	1979	July 12	213.2	3	fry	12	12.3	0.39			0.71	0.22	5.8	
					parr	sm	43	50.6	57.80	35.4	65.8	0.47	0.05	23.7
					lg	60	63.0	9.83	56.7	69.2	0.64	0.03	29.5	

Table 7 (cont'd.).

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.			P	G	Estimated Density
							N	var.	lower	upper				
42	1957	July 25	211.5	6	fry	27					0.02	8.48	12.8	
					parr	78	78.1	0.02	77.8	78.5	0.65	19.39 *	36.9	
	1958	July 28	230.8	5	fry	21							9.1	
					parr	91	96.0	13.90	88.6	103.5	0.45	1.93	41.6	
	1959	July 31	230.8	6	fry	189	210.7	78.91	192.9	228.4	0.32	6.65	91.3	
					parr	105	105.1	0.01	104.9	105.3	0.69	2.18	45.5	
	1960	July 28	192.3	6	fry	262	285.1	69.32	268.4	301.7	0.34	6.80	148.3	
					parr	161	162.3	2.53	159.1	165.5	0.55	2.58	84.4	
	1961	July 22	173.1	6	fry	310	330.5	52.10	316.1	344.9	0.37	2.14	190.9	
					parr	129	129.0	<0.01	129.0	129.1	0.73	3.08	74.5	
	1964	July 31	260.9	4	fry	38							14.6	
					parr	209	220.1	27.23	209.7	230.6	0.53	3.26	84.4	
	1966	July 28	240.8	6	fry	107	111.9	12.19	104.9	118.9	0.41	6.87	46.5	
					parr	198	199.1	2.12	196.2	202.0	0.58	6.31	82.7	
	1967	Aug. 4	220.7	6	fry	151	158.7	18.63	150.1	167.3	0.40	4.33	71.9	
					parr	256	258.8	4.65	254.5	263.1	0.53	1.20	117.3	
	1968	Sept. 12	271.7	6	fry	139	142.9	8.22	137.2	148.7	0.45	15.19 *	52.6	
					parr	159	159.2	0.04	158.8	159.6	0.68	17.16 *	58.6	
	1969	Aug. 19	250.8	6	fry	112	117.6	14.27	110.1	125.2	0.40	6.09	46.9	
					parr	136	145.0	24.88	135.1	155.0	0.37	1.53	57.8	
	1975	July 23	421.6	5	fry	395	534.3	1470.30	457.6	611.0	0.24	5.50	126.7	
					parr	85	88.7	9.55	82.5	94.8	0.47	3.31	21.0	
					sm	28	29.5	7.61			0.45	7.51	7.0	
	1975	Sept. 9	421.6	5	fry	380	432.1	210.81	403.1	461.2	0.34	3.34	102.5	
					parr	73	76.5	9.83	70.2	82.8	0.46	1.99	18.1	
					lg	24	24.1	0.01			0.66	0.66	5.7	
	1976	July 20	340.1	4	fry	222	243.0	68.93	226.4	259.6	0.46	3.48	71.4	
					parr	117	130.9	56.43	115.9	145.9	0.43	3.65	38.5	
					sm	25	27.3	15.32			0.46	0.14	8.0	
	1977	July 29	530.4	5	fry	225	281.0	403.17	240.9	321.2	0.28	5.47		
					parr	155	159.2	8.57	153.3	165.1	0.52	1.20		
					sm	22	24.3	17.68			0.38	4.45		
	1978	July 25	548.0	4	fry	85	95.3	44.61	81.9	108.6	0.43	4.35		
					parr	151	153.3	4.54	149.0	157.6	0.65	0.09		
					sm	44	44.1	0.02			0.76	1.58		
	1979	July 25	558.0	4	fry	372	403.4	93.26	384.1	422.8	0.47	0.66		
					parr	99	104.0	13.32	96.7	111.3	0.53	5.81		
					sm	56	58.1	6.51	53.0	63.2	0.56	0.50		
43	1957	July 25	202.3	6	fry	93	135.1	698.78	82.3	188.0	0.18	2.62	66.8	
					parr	101	101.3	0.19	100.4	102.1	0.63	4.40	50.1	
	1958	July 28	239.1	6	fry	32	47.6	434.19			0.17	9.69 *	19.9	
					parr	89	89.9	2.09	87.0	92.8	0.54	2.55	37.6	
	1959	July 30	220.7	6	fry	334	446.3	1109.86	379.7	513.0	0.21	10.68 *	202.2	
					parr	120	120.5	1.10	118.5	122.6	0.59	9.62 *	54.6	
	1960	July 27	202.3	6	fry	253	275.4	67.79	259.0	291.9	0.34	1.81	136.1	
					parr	160	165.8	12.48	158.7	172.9	0.43	14.43 *	82.0	
	1961	July 21	183.9	6	fry	317	339.7	59.89	324.2	355.2	0.36	6.19	184.7	
					parr	152	152.3	0.34	151.2	153.5	0.64	7.47	82.8	
	1964	July 28	257.5	6	fry	56	59.0	9.42	52.9	65.1	0.39	0.93	22.9	
					parr	218	218.1	<0.01	218.0	218.2	0.74	8.97	84.7	
	1966	July 28	239.1	6	fry	152	161.5	25.15	151.5	171.6	0.38	0.98	67.5	
					parr	240	240.4	0.49	239.0	241.8	0.66	3.74	100.5	
	1967	Aug. 7	331.1	6	fry	141	252.2	4309.05	120.9	383.5	0.13	4.69	76.2	
					parr	220	225.3	9.93	219.0	231.6	0.46	0.37	68.0	
	1968	Sept. 11	413.9	6	fry	161	168.4	33.45	156.9	180.0	0.49	0.48	40.7	
					parr	217	218.5	2.67	215.2	221.7	0.57	2.34	52.8	
	1969	Aug. 12	384.6	6	fry	57	57.4	0.69	55.8	59.1	0.56	11.43 *	14.9	
	1977	July 25	872.0	4	fry	166	171.3	11.03	164.7	178.0	0.44	3.61	44.5	
					sm	178	271.9	1870.45	185.4	358.4	0.23	5.44	31.2	
					lg	184	203.1	67.59	186.7	219.6	0.45	4.61	23.3	
						36	38.0	8.35			0.52	8.16 *	4.4	

Table 7 (cont'd.).

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		P	G	Estimated Density	
							N	var.	lower	upper				
45	1986	May 27	357.2	3	fry									
					parr	sm	56						15.7	
						lg	15						4.2	
	1986	July 13	157.1	4	fry		59	60.7	4.94	56.3	65.1	0.59	0.23	38.6
		a			parr	sm	38	39.0	3.58			0.61	0.34	24.8
						lg	11	11.4	1.91			0.56	0.67	7.3
	1986	July 13	151.0	4	fry		55	55.4	0.68	53.8	57.0	0.71	3.12	36.7
		b			parr	sm	47	50.0	11.19			0.51	1.69	33.1
						lg	19	20.3	11.27			0.50	1.73	13.4
	1986	July 13	308.1	4	fry		114	115.8	3.92	111.8	119.8	0.65	1.46	37.6
		a+b			parr	sm	85	88.6	9.71	82.4	94.9	0.55	1.05	28.8
						lg	30	31.7	8.29			0.52	1.68	10.3
	1986	Aug. 21	151.4	4	fry		83	114.6	434.50	72.9	156.2	0.28	15.67 *	75.7
		a			parr	sm	34	38.6	29.50			0.41	5.93	25.5
						lg	1							0.7
	1986	Aug. 21	149.9	4	fry		118	134.5	75.17	117.1	151.8	0.41	9.68 *	89.7
		b			parr	sm	36	44.3	81.61			0.34	0.78	29.6
						lg	5							3.3
	1986	Aug. 21	301.3	4	fry		201	243.1	261.92	210.8	275.5	0.35	11.14 *	80.7
		a+b			parr	sm	70	82.4	75.70	65.0	99.8	0.38	1.68	27.3
						lg	6					0.81		2.0
	1987	July 28	134.5	4	fry		370	388.4	41.80	375.5	401.4	0.53	12.73 *	288.8
		a			parr	sm	85	85.7	1.58	83.1	88.2	0.70	8.62 *	63.7
						lg	22	22.2	0.08			0.69	0.81	16.5
	1987	July 28	141.2	4	fry		490	540.1	165.65	514.3	565.8	0.45	6.21 *	382.5
		b			parr	sm	107	108.2	2.82	104.9	111.6	0.67	1.20	76.6
						lg	16	16.0	<0.01			0.80	5.13	11.3
	1987	July 28	275.7	4	fry		860	925.1	176.48	898.5	951.7	0.48	14.92 *	335.5
		a+b			parr	sm	192	193.9	3.47	190.1	197.6	0.69	7.01 *	70.3
						lg	38	38.2	0.07			0.73	4.03	13.9
47	1979	July 12	243.7	4	fry		126	134.9	26.55	124.6	145.3	0.49	8.34 *	55.4
					parr	sm	68	72.6	15.20			0.50	1.26	29.8
						lg	44	44.5	1.13			0.68	0.01	18.3

Table 8. Catch, density and population estimate statistics of Atlantic salmon electrofished at Northeast Margaree main river sites, 1957 to 1986. Site #'s refer to those in Table 1 and figures 3 to 7. Area is expressed as metres square. Fry refers to young-of-the-year and parr are divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling intervals.

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		P	G	Estimated Density
							N	var.	lower	upper			
53	1963	Aug. 23	301.0	6	fry	240	312.1	630.57	261.9	362.3	0.22	17.59 *	103.7
					parr	20	21.5	11.79			0.36	3.31	7.1
	1964	Aug. 5	301.0	6	fry	109	110.0	2.28	107.0	113.0	0.54	20.13 *	36.5
					parr	60	87.5	513.75	42.2	132.9	0.18	32.37 *	29.1
	1965	Aug. 4	551.8	5	fry	185	197.6	34.20	185.9	209.3	0.42	0.97	35.8
					parr	94	204.4	10520.32	-0.7	409.6	0.12	1.61	37.0
	1966	Aug. 8	551.8	6	fry	168	174.2	13.38	166.9	181.6	0.43	12.13 *	31.6
					parr	44	49.3	26.82			0.31	7.15	8.9
	1967	July 28	518.4	6	fry	230	236.0	11.15	229.3	242.6	0.46	0.83	45.5
					parr	55	67.9	104.53	47.4	88.3	0.24	8.21	13.1
	1968	Aug. 13	529.3	6	fry	140	145.5	12.44	138.5	152.6	0.42	16.47 *	27.5
					parr	46	57.9	113.53	36.6	79.2	0.23	0.43	10.9
	1969	Aug. 20	334.5	6	fry	12	12.4	0.96			0.44	5.25	3.7
					parr	7							2.1
	1975	July 30	682.8	5	fry	200	214.6	40.75	201.8	227.4	0.42	0.42	31.4
					parr	sm 0							0.3
						lg 2							
	1976	July 29	528.0	5	fry	56	68.0	89.78	49.0	86.9	0.29	0.49	12.9
					parr	sm 1							0.2
						lg 2							0.4
	1977	Aug. 24	494.2	3	fry	22	24.7	25.92			0.52	4.03	5.0
					parr	4							0.8
	1978	July 28	450.2	3	fry	3							0.7
					parr	sm 1							0.2
54	1957	Aug. 2	501.7	6	fry	80	96.1	103.00	75.8	116.4	0.26	1.53	19.2
					parr	196	207.2	27.69	196.7	217.8	0.38	7.14	41.3
	1958	Aug. 6	367.9	6	fry	29	32.7	24.05			0.30	2.05	8.9
					parr	41	42.0	3.29			0.47	0.83	11.4
	1959	Aug. 3	384.6	6	fry	164	193.3	153.35	168.5	218.0	0.27	5.90	50.3
					parr	48	50.3	7.86	44.8	56.0	0.40	4.51	13.1
	1960	Aug. 8	384.6	6	fry	68	75.5	31.29	64.4	86.7	0.32	2.56	19.6
					parr	63	63.5	0.96	61.5	65.4	0.56	2.44	16.5
	1961	Aug. 2	292.6	6	fry	188	211.8	93.38	192.5	231.2	0.31	1.14	72.4
					parr	80	236.6	55199.34	-233.3	706.5	0.07	5.49	80.9
	1963	Aug. 2	451.5	6	fry	74	81.3	27.79	70.8	91.9	0.33	4.62	18.0
					parr	47	104.9	8705.42	-81.7	291.5	0.09	1.76	23.2
	1965	Aug. 5	384.6	6	fry	119	119.1	0.01	118.9	119.2	0.70	17.09 *	31.0
					parr	132	160.3	179.38	133.5	187.0	0.25	3.03	41.7
	1966	Aug. 9	351.2	6	fry	167	197.9	167.16	172.1	223.8	0.27	5.31	56.3
					parr	149	160.0	31.53	148.8	171.2	0.36	2.87	45.6
	1967	Aug. 1	418.1	6	fry	88	104.9	101.82	84.7	125.1	0.26	11.42 *	25.1
					parr	139	182.6	419.79	141.7	223.6	0.21	2.81	43.7
	1968	Aug. 14	403.0	6	fry	26	26.4	1.11			0.49	6.17	6.6
					parr	80	84.7	13.62	77.3	92.1	0.38	1.91	21.0
	1975	July 28	800.0	5	fry	85	150.3	2696.19	46.5	254.2	0.15	0.97	18.8
					parr	sm 22	34.0	667.13			0.19	2.15	4.3
						lg 70	82.4	73.67	65.2	99.6	0.32	6.38	10.3
	1976	July 27	902.9	5	fry	53	54.4	4.17	50.3	58.5	0.52	7.41	6.0
					parr	sm 74	75.5	3.89	71.6	79.5	0.54	5.34	8.4
						lg 45	48.6	14.80			0.40	2.41	5.4
	1977	Aug. 9	887.8	4	fry	52	70.6	267.97	37.9	103.4	0.28	0.63	8.0
					parr	sm 43	47.7	23.53			0.44	0.47	5.4
						lg 50	63.8	144.54	39.7	87.8	0.32	0.07	7.2
	1978	July 27	895.6	4	fry	74	92.1	149.00	67.7	116.5	0.33	4.90	10.3
					parr	sm 134	145.8	39.01	133.3	158.3	0.47	0.54	16.3
						lg 29	32.0	18.75			0.45	0.30	3.6
	1979	July 26	1016.8	3	fry	288	316.2	97.44	296.5	336.0	0.55	0.10	31.1
					parr	sm 32	32.5	1.39			0.75	3.15	3.2
						lg 30	30.4	0.77			0.77	0.80	3.0
55	1986	July 25	304.9	3	fry	20	26.6	204.52			0.37	0.25	8.7
					parr	sm 17	17.8	8.42			0.64	4.82 *	5.8
						lg 7							2.3

Table 8 (cont'd).

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		p	G	Estimated Density
							N	var.	lower	upper			
56	1975	Aug. 12	574.6	3	fry	175	191.5	58.01	176.3	206.8	0.56	8.79 *	33.3
					parr sm	34	35.3	5.91			0.67	2.54	6.1
					lg	29	29.4	0.95			0.76	3.78	5.1
1975	Sept. 17	574.6	5	fry		192	205.8	38.49	193.4	218.3	0.42	16.09 *	35.8
					parr sm	41	44.1	12.84			0.41	1.37	7.7
					lg	40	41.9	6.90			0.46	1.81	7.3
1976	Aug. 13	609.9	5	fry		60	99.1	1322.19	26.3	171.8	0.17	12.97 *	16.2
					parr sm	109	123.4	62.05	107.6	139.1	0.35	2.94	20.2
					lg	15							2.5
51	1957	July 29	585.2	5	fry	145	194.4	530.56	148.3	240.5	0.24	3.22	33.2
					parr	282	286.0	6.69	280.8	291.2	0.57	1.24	48.9
					fry	168	211.4	328.38	175.2	247.7	0.23	5.24	45.2
1959	Aug. 6	401.3	6	fry		450	502.4	184.15	475.2	529.5	0.31	1.18	125.2
					parr	148	148.8	1.78	146.2	151.5	0.58	11.97 *	37.1
					fry	158	167.6	24.75	157.6	177.5	0.38	2.80	43.6
1960	Aug. 1	384.6	6	fry		154	154.3	0.35	153.2	155.5	0.64	8.03	40.1
					parr	208	240.4	147.85	216.1	264.7	0.28	17.96 *	89.8
					fry	115	115.2	0.03	114.8	115.5	0.67	4.86	43.0
1963	Aug. 1	254.2	6	fry		153	182.4	166.12	156.7	208.2	0.26	4.05	71.8
					parr	149	156.0	16.54	147.9	164.2	0.40	3.05	61.4
					fry	365	387.8	57.59	372.7	403.0	0.51	18.26 *	47.8
1965	Aug. 11	811.0	4	fry		617	643.1	54.07	628.4	657.8	0.55	0.16	79.3
					parr	173	184.9	32.47	173.5	196.3	0.42	1.70	18.5
					fry	621	624.9	5.61	620.2	629.7	0.64	7.43	62.5
1966	Aug. 2	1152.2	5	fry		82	84.1	5.24	79.6	88.7	0.52	6.78	7.3
					parr	701	737.3	80.12	719.4	755.2	0.45	22.97 *	64.0
					fry	170	173.3	6.24	168.3	178.3	0.48	8.65	19.0
1969	Aug. 18	1060.0	6	fry		883	906.5	39.93	893.8	919.1	0.46	76.35 *	99.3
					parr	248	259.9	26.77	249.6	270.3	0.40	24.13 *	24.5
					fry	255	269.6	35.15	257.8	281.5	0.38	7.36	25.4
1975	July 24	668.6	5	fry		77	94.9	136.20	71.6	118.3	0.28	0.84	14.2
					parr sm	100	115.6	78.12	97.9	133.3	0.33	1.01	17.3
					lg	26	28.2	12.95			0.40	3.16	4.2
1976	July 23	483.1	5	fry		53	109.1	5426.77	-38.3	256.4	0.12	2.39	22.6
					parr sm	124	141.8	80.67	123.8	159.7	0.34	3.76	29.4
					lg	31	52.3	1203.25	-17.1	121.6	0.16	2.51	10.8
1977	Aug. 11	582.6	5	fry		334	424.9	707.20	371.7	478.1	0.27	10.65 *	72.9
					parr sm	90	92.4	5.77	87.6	97.2	0.52	8.87 *	15.9
					lg	17	19.1	25.04			0.36	8.35 *	3.3
1978	Aug. 3	593.9	5	fry		551	620.7	262.19	588.4	653.1	0.35	22.82 *	104.5
					parr sm	236	255.7	58.55	240.4	271.0	0.40	5.89	43.1
					lg	16	16.1	<0.01			0.66	2.74	2.7
1979	Aug. 22	596.5	3	fry		663	716.6	158.84	691.4	741.8	0.58	0.10	120.1
					parr sm	115	120.3	14.23	112.8	127.9	0.65	0.14	20.2
					lg	36	36.2	0.07			0.83	0.02	6.1
1986	July 23	290.4	4	fry		72	83.3	62.18	67.6	99.1	0.39	6.01 *	28.7
					parr sm	86	89.1	7.95	83.5	94.8	0.57	5.54	30.7
					lg	7							2.4
52	1957	July 26	602.0	6	fry	12							2.0
					parr	233	244.1	24.82	234.1	254.0	0.40	13.35 *	40.5
					fry	84	116.1	432.70	74.5	157.7	0.23	5.66	16.9
					parr	151	157.0	13.53	149.7	164.4	0.48	12.60 *	22.9
					fry	156	258.2	2858.24	151.2	365.1	0.17	4.13	37.7
					parr	160	177.1	61.13	161.5	192.8	0.37	5.16	25.8
					fry	186	237.5	416.35	196.7	278.3	0.22	2.00	35.5
					parr	240	246.3	11.73	239.4	253.1	0.46	12.92 *	36.8
					fry	184	232.2	366.95	193.9	270.5	0.23	21.64 *	32.3
					parr	256	263.0	13.00	255.8	270.2	0.45	27.02 *	36.6
1963	Aug. 8	254.2	6	fry		199	297.9	1719.01	215.0	380.9	0.17	2.97	117.2
					parr	124	126.8	5.85	122.0	131.7	0.47	3.78	49.9
					fry	98	108.5	39.71	95.9	121.1	0.37	6.21	18.3
1965	Aug. 12	593.7	5	fry		290	293.6	5.89	288.7	298.4	0.59	1.73	49.5
					parr	41							6.5
					fry	217	265.8	312.99	230.5	301.2	0.25	15.90 *	41.9
1967	Aug. 3	668.9	6	fry		19	23.6	79.52			0.24	6.15	3.5
					parr	235	242.5	14.62	234.8	250.1	0.44	11.26 *	36.3
1968	Sept. 18	719.1	6	fry		88	90.2	5.04	85.7	94.6	0.46	9.28	12.5
					parr	359	362.6	5.57	357.9	367.3	0.54	10.81 *	50.4

Table 8 (cont'd).

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		p	G	Estimated Density	
							N	var.	lower	upper				
52	1969	Aug. 16	702.3	6	fry	81	90.6	40.15	78.0	103.3	0.31	3.41	12.9	
					parr	174	180.0	12.50	172.9	187.1	0.43	3.95	25.6	
	1975	July 29	692.0	5	fry	45	51.9	41.33	39.0	64.8	0.33	1.35	7.5	
					parr	sm	52	64.2	102.74	43.9	84.5	0.28	0.39	9.3
					lg	28	31.0	18.44			0.37	6.91	4.5	
	1975	Sept. 12	692.0	4	fry	127	144.7	80.09	126.8	162.6	0.41	6.12	20.9	
					parr	sm	31	37.1	57.34		0.36	1.16	5.4	
					lg	31	32.6	7.29			0.53	1.91	4.7	
	1976	July 26	698.0	4	fry	20							2.9	
					parr	sm	137	154.3	72.25	137.3	171.3	0.42	1.15	22.1
					lg	12	12.6	4.96			0.54	0.31	1.8	
57	1977	Aug. 12	823.7		fry	20	20.9	7.06			0.65	0.20	2.5	
					parr	sm	104	107.7	9.39	101.6	113.8	0.67	0.03	13.1
					lg	17	19.7	50.70			0.48	0.29	2.4	
	1978	Aug. 4	675.1	3	fry	61	68.1	34.87	56.3	80.0	0.53	3.48	10.1	
					parr	sm	111	124.0	55.40	109.1	138.9	0.53	0.51	18.4
					lg	19	19.6	4.17			0.68	0.71	2.9	
	1979	Aug. 20	615.9	4	fry	84	106.7	204.03	78.1	135.3	0.32	5.68	17.3	
					parr	sm	116	126.8	37.33	114.5	139.0	0.46	0.32	20.6
					lg	10	10.1	<0.01			0.70	3.14	1.6	
	1986	July 24	486.3	3	fry	1							0.2	
58					parr	sm	36	52.6	451.49	10.1	95.1	0.32	0.33	10.8
					lg	9							1.9	
	1968	Aug. 2	217.4	6	fry	67	71.8	16.02	63.8	79.9	0.36	0.30	33.0	
					parr	125	127.9	6.09	123.0	132.9	0.47	7.90	58.8	
	1969	Aug. 9	217.3	6	fry	44	49.7	29.95			0.30	1.82	22.9	
					parr	58	58.7	1.73	56.0	61.3	0.53	3.39	27.0	
	1977	Aug. 17	203.1	3	fry	120	138.5	96.53	118.9	158.2	0.49	4.05 *	68.2	
					parr	sm	15						7.4	
					lg	2							1.0	
	1978	July 31	168.8	4	fry	70	76.0	22.18	66.6	85.4	0.47	2.54	45.2	
59					parr	15	15.2	0.10			0.66	1.45	9.0	
	1978	Aug. 1	168.8	3	fry	31	33.5	14.09			0.58	0.28	19.9	
					parr	8							4.7	
	1979	Aug. 28	229.7	3	fry	44	51.1	49.70	37.0	65.2	0.48	0.19	22.2	
					parr	sm	5						2.2	
					lg	4							1.7	
	1967	Aug. 16	349.5	6	fry	104	180.1	2710.79	76.0	284.3	0.13	14.53 *	51.5	
					parr	143	220.2	1571.7	140.9	299.5	0.16	18.15 *	63.0	
	1968	July 31	217.4	6	fry	12	13.1	37.07			0.34	8.32	6.0	
					parr	173	176.1	5.87	171.3	181.0	0.49	14.98 *	81.0	
60	1969	Aug. 7	217.3	6	fry	7							3.2	
					parr	106	117.5	42.95	104.4	130.6	0.32	3.23	54.1	
	1977	Aug. 16	258.7	5	fry	18	19.4	12.94			0.41	8.71 *	7.5	
					parr	41	46.3	28.96			0.35	4.80	17.9	
					lg	23	25.0	13.65			0.40	14.08 *	9.7	
	1978	Aug. 1	249.6	4	fry	8							3.2	
					parr	sm	38	44.1	42.15		0.39	0.98	17.7	
					lg	16	16.4	1.23			0.60	2.52	6.6	
	1968	Aug. 1	213.2	2	fry	44							20.6	
					parr	135	152.2	90.59	133.2	171.3	0.66	0.00	63.3	
59	1969	Aug. 8	213.2	6	fry	13	14.4	33.87			0.32	0.34	6.8	
					parr	106	113.7	23.02	104.1	123.3	0.36	3.43	53.3	
60	1968	Aug. 8	194.8	6	fry	71	170.5	15680.18	-79.9	421.0	0.09	1.65	87.5	
					parr	230	236.8	13.09	229.6	244.0	0.45	2.50	121.6	
59	1969	Aug. 7	195.7	6	fry	32							16.4	
					parr	116	131.5	66.49	115.2	147.8	0.30	18.37 *	67.2	

Table 9. Catch, density and population estimate statistics of Atlantic salmon electrofished at Southwest Margaree main river sites and tributaries of Southwest Margaree, 1957 to 1986. Site #'s refer to those in Table 1 and Figures 1, 8 and 9. Area is expressed as metres square. Fry refers to young-of-the-year and parr are divided into small (sm) and large (lg) size groups when indicated. Population statistics are described in the text. * indicates significant differences in catchability among sampling intervals.

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.		P	G	Estimated Density
							N	var.	lower	upper			
90	1975	Aug. 22	514.5	1	fry	0							
					parr	sm	1						0.2
	1976	Aug. 20	557.2	2	fry	1							1.2
					parr	lg	2						0.2
91	1966	Aug. 3	418.1	6	fry	153	160.7	18.60	152.1	169.4	0.40	13.17 *	38.4
					parr	27	30.4	23.79			0.30	4.26	7.3
91	1967	Aug. 24	710.7	6	fry	48	55.4	42.91	42.3	68.5	0.29	5.63	7.8
					parr	61	63.4	7.00	58.2	68.7	0.42	0.88	8.9
92	1975	Sept. 4	736.5	4	fry	13	16.0	211.73			0.34	0.47	2.2
					parr	sm	0						0.8
	1976	July 27	805.6	5	fry	12							1.5
					parr	4							0.5
93	1957	July 27	564.4	6	fry	102	137.6	406.72	97.3	178.0	0.20	13.98 *	24.4
					parr	57	71.4	126.30	48.9	93.9	0.23	6.33	12.7
95	1975	Aug. 25	490.2	5	fry	0							
					parr	sm	40	68.0	1333.97	-5.0	141.1	0.16	2.10	13.9
	1976	Aug. 25	505.5	4	fry	29	19.8	5.19			0.48	7.63	4.0
					parr	lg	19		14.92			0.47	5.86	6.3
95	1977	Aug. 22	535.4	4	fry	36	42.4	49.88			0.38	0.71	7.9
					parr	sm	2						0.4
	1978	Aug. 24	419.9	3	fry	1	3						0.6
					parr	sm	9						2.1
96	1975	Aug. 27	362.9	5	fry	34	34.7	2.40			0.55	4.29	9.6
					parr	sm	43	80.5	2704.34	-23.5	184.5	0.14	11.48 *	22.2
	1976	Aug. 24	837.0	4	fry	40	44.1	20.80			0.45	1.18	5.3
					parr	sm	22	22.7	3.64			0.58	0.09	2.7
96	1977	Aug. 17	435.2	3	fry	4							0.9
					parr	lg	16	18.2	42.76			0.51	0.08	4.2
	1978	Aug. 22	404.5	3	fry	64	71.8	38.50	59.4	84.2	0.52	0.87	17.8
					parr	sm	5						1.2
					lg	3							0.7
97	1957	July 28	1000.0	6	fry	0							
					parr	4							0.4
	1959	Aug. 12	1000.0	3	fry	4							0.4
					parr	2							0.2
97	1960	Aug. 5	1000.0	6	fry	0							
					parr	0							
97	1961	July 31	1000.0	5	fry	3							0.3
					parr	3							0.3
97	1963	Aug. 22	1000.0	3	fry	1							0.1
					parr	16	16.9	12.52			0.62	0.43	1.7
	1964	Aug. 9	1000.0	4	fry	0							
					parr	27							2.7
97	1965	Aug. 18	1000.0	2	fry	1							0.1
					parr	5							0.5
97	1966	Aug. 2	1000.0	5	fry	0							0.2
					parr	2							
97	1967	Aug. 25	1000.0	5	fry	0							
					parr	13	18.8	-4132.1			0.21	0.80	1.9
98	1981	Sept. 16	157.6	5	fry	21	22.1	7.33			0.45	5.19	14.0
					parr	20	20.8	5.47			0.47	4.05	13.2

Table 9 (cont'd).

Site #	Year	Date	Area	# of sweeps	Size Group	Total Catch	Est. Pop.		Conf. Int.			P	G	Estimated Density
							N	var.	lower	upper				
99	1981	Sept. 17	93.1	5	fry	26								27.9
					parr	14	15.2	23.48				0.47	3.10	16.3
1982	July 13		571.5	6	fry	3								0.5
					parr	54	58.7	18.16	50.2	67.2		0.34	27.59 *	10.3
1983	Oct. 12		569.0	6	fry	7								1.2
					parr	76	91.1	96.60	71.4	110.8		0.26	38.24 *	16.0
1984	Sept. 17		542.1	5	fry	0								
					parr	15	19.0	142.50				0.27	0.84	3.5
1985	Sept. 9		314.1	5	fry	21	29.8	308.69				0.22	1.68	9.5
					parr	16	16.2	0.18				0.57	6.70	5.2
1986	Sept. 9		399.0	4	fry	114	150.1	373.83	111.5	188.8		0.30	0.08	37.6
					parr	17	17.5	2.38				0.58	2.29	4.4

Table 10. Mean yearly densities of fry and parr from selected regions of the Margaree River. Numbers below names refer to sites used for calculating yearly means.

Year	Gallant River	Big Brook	L. O'Law Brook	Nile Brook	Ingram Brook	Forest Glen Brook	N.E. Margaree				Estimate for the Year
	2 & 3	15	22	27	31	40, 41, 42, 45	Old Bridge	MacLeods	Doyles	Cranton	
Fry											
1957						12.3	32.9	2.0		19.2	16.0
1958						18.8	45.0	16.8		8.8	21.9
1959						73.5	125.6	37.4		50.9	68.1
1960						70.9	44.1	35.4		19.9	47.0
1961						77.5	89.0	32.2		73.0	62.7
1963		2.3					73.0	119.2	104.0	18.1	56.3
1964	110.7	3.9	49.8	35.5	15.5	11.4			36.7		30.5
1965	24.9	66.6			22.3		47.9	18.4	35.9	31.3	35.7
1966	25.7	14.6	28.6	7.7	5.9	49.1	18.5	6.5	31.7	56.5	26.5
1967	68.6	3.7	40.0	4.6	3.0	39.4	7.3	3.5	45.4	25.0	24.4
1968	23.2	18.3	39.7	0.0	68.9	44.9	19.0	12.5	27.5	6.6	23.7
1969						36.4	24.5	12.9	3.8		21.5
1975	0.8	0.4	0.0	0.0	23.9	119.9	14.2	14.2	31.6	18.8	39.1
1976	1.0	5.0	0.8	0.0	30.2	71.5	22.7	2.9	12.8	6.0	16.1
1977		0.0	0.0	1.0	23.7	40.7	73.3	2.5	5.0	7.9	19.3
1978	11.9	1.8	39.7	1.5	0.6	9.0	105.2	10.0	0.7	10.2	19.7
1979	19.8	6.6	0.0	2.4	45.5	54.0	119.4	17.2		31.0	38.7
1986	3.8	16.7	0.0			58.8	28.7	0.2			21.9
1987		47.1	0.0			330.4					139.1
Parr (small and large combined)											
1957						37.0	48.5	40.7		41.4	41.4
1958						34.9	33.5	22.8		11.4	27.6
1959						38.7	37.2	25.7		13.2	30.5
1960						59.0	40.6	36.8		16.7	41.9
1961						62.2	42.7	36.5		81.6	53.5
1963		28.4				35.7	62.4	50.7	7.2	23.3	32.5
1964	15.2	45.6	39.7	70.0	61.2	71.1			29.2		41.8
1965	55.1	29.7			68.1		79.4	49.8	37.2	42.2	53.6
1966	47.3	53.1	58.9	88.1	43.6	68.5	62.5	42.2	9.0	45.7	51.1
1967	37.0	62.4	24.2	76.2	30.0	90.2	64.1	36.2	13.1	43.5	51.8
1968	53.1	64.7	26.8	46.6	30.6	88.2	99.6	50.4	10.9	21.2	57.5
1969						76.5	25.4	25.7	2.1		33.8
1975	23.2	0.2	36.3	35.7	54.7	30.9	21.5	11.9	0.3	14.5	19.3
1976	13.4	2.0	30.7	8.6	61.4	44.1	40.4	23.8	0.6	13.8	21.8
1977		7.3	18.5	11.4	34.1	40.3	19.2	15.5	0.8	12.5	21.1
1978	12.0	6.9	25.0	22.6	76.9	42.8	46.1	21.1	0.2	19.8	28.4
1979	11.8	7.6	32.7	18.3	30.4	35.8	26.1	22.1		6.2	20.3
1986	12.4	19.1	22.3			34.2	33.1	12.6			22.7
1987		21.2	31.8			82.9					46.1
Small Parr											
1964		21.1		50.7	48.1						36.8
1975	15.6	0.0	25.8	22.2	44.0	23.8	17.3	7.3	0.0	4.2	13.3
1976	12.1	0.2	24.5	2.9	38.1	34.1	29.5	22.0	0.2	8.4	16.4
1977		6.4	14.4	10.0	19.0	35.4	15.9	13.1		5.4	15.8
1978	10.1	5.7	22.4	19.9	69.0	33.4	43.3	18.2	0.2	16.2	23.6
1979	6.8	6.1	29.8	7.2	6.8	20.1	20.0	20.5		3.2	13.6
1986	9.6	17.6	9.5			28.0	30.7	10.7			18.4
1987		18.0	24.9			69.2					38.3
Large Parr											
1964		24.6		19.3	13.2						20.2
1975	7.6	0.2	10.4	13.5	10.7	7.1	4.2	4.6	0.3	10.3	5.9
1976	1.3	1.7	6.2	5.7	23.3	10.0	10.9	1.8	0.4	5.4	5.4
1977		0.9	4.1	1.4	15.1	5.0	3.3	2.4		7.2	4.5
1978	1.9	1.2	2.6	2.6	7.9	9.4	2.7	2.9	0.0	3.6	4.7
1979	5.0	1.6	2.9	11.1	23.5	15.7	6.0	1.6		3.0	6.7
1986	2.8	1.5	12.8			6.2	2.4	1.8			4.3
1987		3.2	6.9			13.6					7.9

Gallant Brook: 1964 & 1978, Site 3 only
1986, Site 2 only.

Forest Glen Brook: 1976, 1977 and 1979, Sites 41 and 42 only
1986 & 1987, Site 45 only.

Table 11. Length and weight at age of Atlantic salmon sampled from Gallant River sites in 1968. Length is in cm and weight is in grams. Ages were determined from scale samples.

Age	Stage	Parameter	Site 2			Site 3			Site 4		
			1968			1968			1968		
			Sept. 17	Sept. 16	Aug. 29	Sept. 17	Sept. 16	Aug. 29	Sept. 17	Sept. 16	Aug. 29
0+ Fry	Length	Mean	6.3	5.8	5.7						
		Std. Dev.	0.5	0.3	0.4						
		Min.	5.2	5.1	5.2						
		Max.	7.2	6.2	6.4						
	Weight	N	23	18	9						
		Mean	2.4	2.0	1.7						
		Std. Dev.	0.5	0.3	0.4						
		Min.	1.5	1.3	1.3						
1+ Parr	Length	Max.	3.6	2.6	2.3						
		Mean	9.7	8.8	9.9						
		Std. Dev.	0.4	0.7	0.5						
		Min.	9.1	7.5	9.0						
	Weight	Max.	10.2	11.1	10.9						
		N	13	57	23						
		Mean	9.1	7.1	10.0						
		Std. Dev.	1.0	1.8	1.5						
2+ Parr	Length	Min.	7.3	3.7	6.9						
		Max.	10.9	12.8	13.4						
		Mean	11.7	11.9	10.7						
		Std. Dev.	0.9	0.1	0.3						
	Weight	Min.	10.4	11.8	10.4						
		Max.	13.5	12.0	11.0						
		N	23	2	3						
		Mean	16.1	17.1	14.6						
3+ Parr	Length	Std. Dev.	3.0	3.2	1.4						
		Min.	12.0	14.8	13.3						
		Max.	22.5	19.3	16.0						
		Mean	13.6	11.6	12.0						
	Weight	Std. Dev.	.	0.6	0.6						
		Min.	13.6	11.0	11.5						
		Max.	13.6	12.0	12.6						
		N	1	3	3						

Table 12. Length and weight at age of Atlantic salmon sampled from Big Brook and Nile Brook sites, 1965 to 1987. Length is in cm and weight is grams. Male and female numbers refer to individuals for which sex could be determined. Ages determined from scale samples.

Age	Category	Characteristic	Site 15		Site 18	
			1965 Aug. 19	1968 Sept. 20	1987 July 30	1968 Aug. 13
O+ Fry	Length	Mean	5.1	6.6	.	.
		Std. Dev.	0.2	0.4	.	.
		Min.	4.8	5.5	.	.
		Max.	5.5	7.1	.	.
		N	12	19	.	.
	Weight	Mean	1.5	2.7	.	.
		Std. Dev.	0.2	0.5	.	.
		Min.	1.3	1.5	.	.
		Max.	1.9	3.5	.	.
	male	N	4	.	.	.
	female	N	8	.	.	.
1+ Parr	Length	Mean	9.2	10.5	10.6	.
		Std. Dev.	0.3	0.8	.	.
		Min.	9.0	8.7	10.6	.
		Max.	9.4	11.6	10.6	.
		N	2	12	1	.
	Weight	Mean	9.4	11.3	13.2	.
		Std. Dev.	1.4	2.0	.	.
		Min.	8.4	6.4	13.2	.
		Max.	10.4	13.2	13.2	.
	male	N	2	.	.	.
2+ Parr	Length	Mean	12.1	12.2	10.5	12.2
		Std. Dev.	1.2	0.7	1.3	1.8
		Min.	10.7	11.1	8.6	10.9
		Max.	16.0	13.8	12.6	13.5
		N	16	22	15	2
	Weight	Mean	22.1	18.2	13.7	18.6
		Std. Dev.	6.9	2.6	5.2	7.1
		Min.	15.8	11.9	7.2	13.5
		Max.	45.9	22.2	21.9	23.6
	male	N	14	.	.	.
	female	N	2	.	.	2
3+ Parr	Length	Mean	.	13.3	12.5	.
		Std. Dev.	.	1.0	1.1	.
		Min.	.	12.5	11.8	.
		Max.	.	14.4	13.8	.
		N	.	3	3	.
	Weight	Mean	.	24.1	21.9	.
		Std. Dev.	.	5.3	1.2	.
		Min.	.	20.4	20.9	.
		Max.	.	30.1	23.1	.

Table 13. Length and weight at age of Atlantic salmon sampled from Lake O'Law Brook sites, 1965 to 1987. Length is in cm and weight in grams. Male and female numbers refer to individuals for which sex could be determined. Ages determined from scale samples.

Age	Category	Characteristic	Site 22		Site 24	
			1968		1965	
			Aug. 15	July 27	Sept. 22	Aug. 28
O+ Fry	Length	Mean	5.4	.	5.5	5.2
		Std. Dev.	0.3	.	0.7	0.6
		Min.	5.0	.	4.8	4.2
		Max.	5.8	.	6.5	6.6
		N	19	.	5	25
	Weight	Mean	1.5	.	1.9	1.4
		Std. Dev.	0.2	.	0.6	0.5
		Min.	1.1	.	1.4	0.7
		Max.	2.0	.	2.6	2.6
	male	N	.	.	5	.
1+ Parr	Length	Mean	10.0	9.7	9.3	9.1
		Std. Dev.	0.8	.	0.9	0.8
		Min.	8.4	9.7	8.3	7.7
		Max.	11.3	9.7	10.1	11.2
		N	31	1	3	45
	Weight	Mean	9.9	9.8	8.5	7.7
		Std. Dev.	2.3	.	1.8	1.8
		Min.	6.0	9.8	6.7	4.6
		Max.	13.8	9.8	10.2	13.2
	male	N	.	.	2	.
	female	N	.	.	1	.
2+ Parr	Length	Mean	13.0	9.7	11.4	11.5
		Std. Dev.	0.8	1.4	0.5	0.5
		Min.	12.0	8.4	10.7	10.7
		Max.	14.0	12.3	12.3	12.4
		N	6	6	12	12
	Weight	Mean	21.8	11.6	17.3	15.2
		Std. Dev.	4.6	5.5	2.7	1.8
		Min.	15.8	7.0	14.0	11.9
		Max.	27.4	22.1	24.9	18.0
	male	N	.	.	9	.
	female	N	.	.	3	.
3+Parr	Length	Mean	13.2	13.8	.	.
		Std. Dev.	0.6	0.9	.	.
		Min.	12.8	13.0	.	.
		Max.	13.9	14.8	.	.
		N	3	3	.	.
	Weight	Mean	23.1	31.2	.	.
		Std. Dev.	3.3	8.8	.	.
		Min.	20.5	23.5	.	.
		Max.	26.8	40.8	.	.

Table 14. Length and weight at age of Atlantic salmon sampled from Nile Brook and Ingram Brook sites, 1965 to 1968. Length is in cm and weight in grams. Male and female counts refer to the number of each sex from the sample. Ages determined from scale samples.

		Length	Site 26		Site 27		Site 31		Site 32		Site 33	
			1968	1968	1965	1968	1968	1965	1965	1965	1965	1965
			Sept. 10	Sept. 9	Sept. 13	Sept. 24	Oct. 13	Oct. 13				
0+ Fry	Length	Mean	.	.	5.2	5.7	.	4.7	.	0.2	4.5	5.0
		Std. Dev.	.	.	0.3	0.5	.	.	.	0.2	.	.
		Min.	.	.	4.9	4.7	.	.	.	1.1	.	.
		Max.	.	.	5.5	6.6	.	.	.	1.5	.	.
		N	.	.	10	27	.	.	.	2	.	6
	Weight	Mean	.	.	1.7	1.8	.	1.3	.	0.2	.	.
		Std. Dev.	.	.	0.2	0.5	.	0.2	.	0.2	.	.
		Min.	.	.	1.5	1.0	.	1.1	.	1.1	.	.
		Max.	.	.	1.9	2.7	.	1.5	.	1.5	.	.
	male	N	.	.	3	.	.	.	.	2	.	.
	female	N	.	.	7	.	.	.	.	4	.	.
1+ Parr	Length	Mean	9.1	8.8	8.6	9.6	8.0	.	.	.	.	.
		Std. Dev.	0.6	0.9	0.7	0.6	0.7	.	.	.	.	.
		Min.	8.2	7.3	7.4	8.9	7.2	.	.	.	.	.
		Max.	10.6	11.7	9.5	11.0	8.5	.	.	.	.	.
		N	34	25	8	8	3	.	.	.	.	.
	Weight	Mean	7.9	7.0	7.0	8.7	5.3	.	.	.	.	.
		Std. Dev.	1.7	2.2	1.4	1.5	1.3	.	.	.	.	.
		Min.	5.6	3.8	4.1	7.0	3.9	.	.	.	.	.
		Max.	11.5	14.2	8.7	11.8	6.3	.	.	.	.	.
	male	N	.	.	3	.	.	.	.	.	.	.
	female	N	.	.	5	.	.	3	.	.	.	.
2+ Parr	Length	Mean	12.1	11.8	12.6	12.8	10.8	12.9	.	.	.	.
		Std. Dev.	0.8	0.7	1.1	1.2	0.8	.	.	.	.	.
		Min.	10.5	10.9	11.0	11.1	9.7	12.9	.	.	.	.
		Max.	13.6	13.3	14.4	16.0	11.9	12.9	.	.	.	.
		N	13	15	8	18	11	1	.	.	.	.
	Weight	Mean	19.1	17.3	21.3	22.3	13.5	20.6	.	.	.	.
		Std. Dev.	3.9	3.7	5.4	6.4	3.0	.	.	.	.	.
		Min.	12.6	12.2	14.5	13.8	9.3	20.6	.	.	.	.
		Max.	26.2	25.3	31.6	42.4	17.0	20.6	.	.	.	.
	male	N	.	.	4	.	5	.	.	.	.	.
	female	N	.	.	4	.	6	1	.	.	.	.
3+ Parr	Length	Mean	12.4	.	.	.	.	.	15.3	.	.	.
		Std. Dev.	.	.	.	.	.	.	.	.	.	.
		Min.	12.4	.	.	.	.	.	15.3	.	.	.
		Max.	12.4	.	.	.	.	.	15.3	.	.	.
		N	1	.	.	.	.	.	1	.	.	.
	Weight	Mean	22.3	.	.	.	.	.	36.4	.	.	.
		Std. Dev.	.	.	.	.	.	.	.	.	.	.
		Min.	22.3	.	.	.	.	.	36.4	.	.	.
		Max.	22.3	.	.	.	.	.	36.4	.	.	.
	male	N	.	.	.	.	.	.	1	.	.	.
4+ Parr	Length	Mean	.	.	15.3	.	.	.	.	.	.	.
		Std. Dev.	.	.	.	.	.	.	.	.	.	.
		Min.	.	.	15.3	.	.	.	.	.	.	.
		Max.	.	.	15.3	.	.	.	.	.	.	.
		N	.	.	1	.	.	.	.	.	.	.
	Weight	Mean	.	.	34.5	.	.	.	.	.	.	.
		Std. Dev.	.	.	.	.	.	.	.	.	.	.
		Min.	.	.	34.5	.	.	.	.	.	.	.
		Max.	.	.	34.5	.	.	.	.	.	.	.
	male	N	.	.	1	.	.	.	.	.	.	.

Table 15. Length and weight at age of Atlantic salmon sampled from Forest Glen Brook sites, 1957 to 1987. Length is in cm and weight in grams. Male and female numbers refer to individuals for which sex could be determined. Ages determined from scale samples.

Site 40			1957	1958	1959	1960	1961	1968
			July 24	July 25	July 28	July 21	July 19	Sept. 13
0+ Fry	Length	Mean	3.6	4.3	4.3	.	3.8	5.2
		Std. Dev.	0.1	0.1	0.2	.	0.3	0.4
		Min.	3.5	4.1	4.1	.	3.3	4.7
		Max.	3.7	4.4	4.6	.	4.7	6.0
	Weight	N	4	7	10	.	16	20
		Mean	0.5	0.8	0.9	.	0.6	1.4
		Std. Dev.	0.1	0.1	0.1	.	0.2	0.3
		Min.	0.4	0.6	0.7	.	0.2	0.9
1+ Parr	Length	Max.	0.5	0.8	1.0	.	1.2	2.0
		Mean	7.5	8.3	8.2	8.3	8.3	8.0
		Std. Dev.	0.2	0.6	0.6	0.7	0.7	0.5
		Min.	7.2	7.5	7.4	7.2	7.0	6.9
	Weight	Max.	7.6	9.5	9.5	10.0	9.6	9.1
		N	4	17	15	28	32	24
		Mean	4.3	5.6	5.4	6.2	5.9	5.3
		Std. Dev.	0.3	1.5	1.0	1.7	1.4	1.0
2+ Parr	Length	Min.	4.0	3.8	4.0	3.5	3.4	3.6
		Max.	4.6	9.0	7.8	10.5	8.9	7.8
		male	N	1	10	10	11	15
		female	N	3	7	5	17	.
	Weight	Mean	10.2	11.1	11.2	10.8	10.5	10.9
		Std. Dev.	0.7	0.8	0.8	1.0	0.8	0.8
		Min.	9.0	10.0	10.2	10.1	9.3	9.4
		Max.	11.5	12.3	12.4	12.7	11.6	12.1
3+ Parr	Length	N	14	16	5	6	8	20
		Mean	11.2	14.2	15.2	14.0	12.1	13.4
		Std. Dev.	2.3	3.6	4.2	3.6	2.6	2.3
		Min.	8.1	10.4	10.9	11.1	8.8	9.4
	Weight	Max.	15.8	21.0	21.9	20.7	16.2	17.5
		male	N	5	10	5	4	5
		female	N	9	6	.	2	3

Table 15 (cont'd.).

			1957	1958	1959	1960	1961	1968
			July 24	July 26	July 29	July 26	July 20	Aug. 9
Site 41								
0+ Fry	Length	Mean	3.6	4.0	4.3	.	3.4	4.4
		Std. Dev.	0.3	0.2	0.3	.	0.2	0.6
		Min.	3.0	3.5	4.0	.	3.2	3.5
		Max.	4.0	4.2	5.0	.	3.6	5.3
		N	8	9	12	.	10	14
	Weight	Mean	0.5	0.7	0.8	.	0.4	0.9
		Std. Dev.	0.2	0.1	0.1	.	0.1	0.4
		Min.	0.2	0.5	0.6	.	0.3	0.4
		Max.	0.7	0.9	1.0	.	0.7	1.6
1+ Parr	Length	Mean	7.2	8.0	8.2	8.0	8.0	7.7
		Std. Dev.	0.2	0.7	0.7	0.7	0.4	0.5
		Min.	6.9	6.5	6.8	6.0	7.3	6.6
		Max.	7.6	9.4	9.4	9.3	9.0	9.0
		N	8	44	29	56	28	38
	Weight	Mean	3.7	5.1	5.9	5.5	5.1	4.6
		Std. Dev.	0.3	1.4	1.7	1.5	0.8	0.9
		Min.	3.2	2.8	3.0	2.2	3.8	2.8
		Max.	4.3	7.7	8.8	9.3	6.6	7.2
	male	N	2	18	14	25	16	.
	female	N	5	25	15	30	12	.
2+ Parr	Length	Mean	10.3	10.4	11.0	11.1	10.4	10.6
		Std. Dev.	0.7	0.7	0.8	0.8	0.6	1.1
		Min.	9.4	9.3	9.7	10.3	9.3	9.4
		Max.	11.5	11.8	12.5	12.5	11.2	15.0
		N	10	19	19	9	11	33
	Weight	Mean	11.0	11.7	14.5	14.7	10.9	12.0
		Std. Dev.	2.6	1.9	3.6	3.1	2.0	3.1
		Min.	8.1	8.0	9.3	10.6	7.6	8.0
		Max.	15.8	14.8	21.5	19.6	13.4	20.0
	male	N	4	12	10	2	3	.
	female	N	6	7	9	7	8	.
3+ Parr	Length	Mean	14.2	12.2	.	.	13.2	11.8
		Std. Dev.	.	0.5	.	.	.	0.3
		Min.	14.2	11.5	.	.	13.2	11.6
		Max.	14.2	12.7	.	.	13.2	12.0
		N	1	4	.	.	1	2
	Weight	Mean	28.3	19.8	.	.	25.5	18.6
		Std. Dev.	.	3.5	.	.	.	0.4
		Min.	28.3	15.9	.	.	25.5	18.4
		Max.	28.3	23.2	.	.	25.5	18.9
	male	N	1	3	.	.	1	.
	female	N	.	1	.	.	.	.

Table 15 (cont'd.).

Site 42			1957	1958	1959	1960	1961	1968
			July 25	July 28	July 31	July 28	July 22	Sept. 12
0+ Fry	Length	Mean	3.5	4.3	.	.	3.7	4.9
		Std. Dev.	0.1	0.2	.	.	0.2	0.4
		Min.	3.4	4.0	.	.	3.2	3.9
		Max.	3.7	4.5	.	.	3.9	5.6
	Weight	N	6	11	.	.	14	33
		Mean	0.6	0.8	.	.	0.5	1.1
		Std. Dev.	0.1	0.1	.	.	0.1	0.2
		Min.	0.4	0.6	.	.	0.3	0.6
		Max.	0.7	1.0	.	.	0.7	1.6
1+ Parr	Length	Mean	7.7	8.2	8.5	8.1	7.8	8.0
		Std. Dev.	0.5	0.6	0.7	0.6	0.6	0.6
		Min.	7.0	7.0	7.2	7.0	6.4	6.9
		Max.	8.8	9.5	9.8	9.3	9.0	9.8
	Weight	N	12	31	45	40	34	32
		Mean	4.8	5.9	6.3	5.5	5.1	5.2
		Std. Dev.	1.0	1.4	1.5	1.2	1.1	1.3
		Min.	3.2	3.5	3.5	3.5	2.8	3.1
		Max.	7.3	9.8	10.0	9.6	7.5	9.3
	male	N	6	12	23	20	18	.
	female	N	6	19	22	19	16	.
2+ Parr	Length	Mean	10.6	10.9	11.0	10.1	10.1	10.5
		Std. Dev.	1.0	0.5	0.6	0.4	0.7	0.7
		Min.	9.2	10.0	10.3	9.5	8.9	8.8
		Max.	12.3	11.5	11.8	10.7	11.5	11.5
	Weight	N	8	15	8	8	11	21
		Mean	12.1	13.6	13.6	10.8	11.4	11.5
		Std. Dev.	3.1	1.6	1.5	1.1	2.3	1.9
		Min.	8.5	10.4	11.8	8.5	8.0	8.0
		Max.	17.8	17.0	16.5	12.4	16.0	15.8
	male	N	3	9	3	4	6	.
	female	N	5	6	5	4	5	.
3+ Parr	Length	Mean	.	12.3	12.0	11.4	.	11.9
		Std. Dev.	.	0.4	.	.	.	0.5
		Min.	.	11.8	12.0	11.4	.	11.6
		Max.	.	12.6	12.0	11.4	.	12.4
	Weight	N	.	3	1	1	.	3
		Mean	.	19.5	19.3	15.9	.	19.7
		Std. Dev.	.	1.2	.	.	.	2.2
		Min.	.	18.2	19.3	15.9	.	18.0
		Max.	.	20.2	19.3	15.9	.	22.2
	male	N	.	3	1	1	.	.

Table 15 (cont'd.).

			1957 July 25	1958 July 28	1959 July 30	1960 July 27	1961 July 21	1968 Sept. 11
site 43								
0+ Fry	Length	Mean	3.5	4.3	4.3	.	3.5	4.9
		Std. Dev.	0.3	0.3	0.6	.	0.1	0.4
		Min.	3.0	4.0	3.9	.	3.4	4.0
		Max.	4.0	5.0	6.3	.	3.7	5.8
		N	13	14	15	.	13	48
Weight		Mean	0.4	0.7	0.9	.	0.4	1.2
		Std. Dev.	0.2	0.1	0.4	.	0.1	0.3
		Min.	0.2	0.5	0.6	.	0.3	0.6
		Max.	0.7	1.1	2.4	.	0.6	2.0
1+ Parr	Length	Mean	7.7	8.2	8.4	8.7	8.3	8.0
		Std. Dev.	0.6	1.0	0.7	0.9	0.7	0.6
		Min.	6.8	6.4	7.2	7.3	7.1	6.4
		Max.	8.7	10.0	10.0	10.6	9.7	9.2
		N	19	15	34	40	29	34
Weight		Mean	4.5	6.1	6.1	6.4	6.0	5.2
		Std. Dev.	1.0	2.4	1.5	2.2	1.5	1.2
		Min.	2.9	2.6	3.6	3.8	4.0	2.7
		Max.	6.5	11.0	9.7	12.4	9.5	8.3
male		N	4	9	15	17	16	.
female		N	15	6	18	23	13	.
2+ Parr	Length	Mean	10.2	11.1	10.5	11.1	10.1	10.3
		Std. Dev.	0.9	0.7	0.4	0.8	0.6	0.7
		Min.	8.6	10.5	10.1	10.1	9.1	9.2
		Max.	11.7	12.3	11.2	12.1	11.0	11.8
		N	12	8	10	5	11	25
Weight		Mean	10.4	14.7	12.0	14.0	10.8	11.3
		Std. Dev.	2.7	3.0	1.3	2.1	1.5	2.3
		Min.	6.3	11.5	10.4	11.9	8.6	8.3
		Max.	15.9	19.0	14.9	16.5	14.0	17.9
male		N	2	5	4	4	6	.
female		N	8	3	6	1	5	.
3+ Parr	Length	Mean	.	.	13.8	.	.	11.6
		Std. Dev.	.	.	.	.	.	0.4
		Min.	.	.	13.8	.	.	11.1
		Max.	.	.	13.8	.	.	12.0
		N	.	.	1	.	.	6
Weight		Mean	.	.	27.3	.	.	17.2
		Std. Dev.	.	.	.	.	.	0.7
		Min.	.	.	27.3	.	.	16.4
		Max.	.	.	27.3	.	.	18.1
male		N	.	.	1	.	.	.

Table 15 (cont'd.).

Site 45		1987	
		July 28	
1+ Parr	Length	Mean	8.7
		Std. Dev.	0.6
		Min.	8.2
		Max.	9.5
		N	4
	Weight	Mean	7.2
		Std. Dev.	1.6
		Min.	5.5
		Max.	9.2
2+ Parr	Length	Mean	9.7
		Std. Dev.	1.4
		Min.	7.6
		Max.	11.7
		N	9
	Weight	Mean	11.4
		Std. Dev.	4.5
		Min.	5.2
		Max.	18.5
3+ Parr	Length	Mean	11.6
		Std. Dev.	2.4
		Min.	10.1
		Max.	15.1
		N	4
	Weight	Mean	18.6
		Std. Dev.	11.0
		Min.	11.2
		Max.	34.6

Table 16. Length and weight at age of Atlantic salmon sampled from the Northeast Margaree, main river sites, 1957 to 1987. Length is in cm and weight in grams. Male and female numbers refer individuals for which sex could be determined. Ages determined from scales.

Site 51			1957	1958	1959	1960	1961	1965	1968	1987*
			July 29	Aug. 4	Aug. 6	Aug. 1	July 28	Aug. 11	Sept. 19	July 29
0+ Fry	Length	Mean	3.7	4.7	4.6	4.9	3.9	4.1	5.5	.
		Std. Dev.	0.3	0.3	0.4	0.3	0.4	0.2	0.3	.
		Min.	3.0	4.3	4.0	4.6	3.4	3.8	4.9	.
		Max.	4.1	5.0	5.0	5.3	4.8	4.4	6.0	.
		N	32	5	6	5	16	10	18	.
	Weight	Mean	0.6	0.8	1.0	1.2	0.6	0.7	1.7	.
		Std. Dev.	0.1	0.2	0.3	0.3	0.2	0.1	0.3	.
		Min.	0.3	0.5	0.7	0.9	0.4	0.6	1.1	.
		Max.	0.7	1.1	1.4	1.5	1.1	0.9	2.3	.
	male	N	.	.	.	.	.	3	.	.
	female	N	.	.	.	.	.	5	.	.
1+ Parr	Length	Mean	8.2	9.5	9.3	9.0	8.9	8.3	9.1	10.0
		Std. Dev.	0.6	1.0	0.7	0.8	0.5	0.7	0.6	0.7
		Min.	7.0	7.8	8.0	6.9	7.5	6.2	7.8	9.3
		Max.	9.8	11.0	10.7	10.7	9.8	9.4	10.0	10.6
		N	51	21	29	53	32	29	13	3
	Weight	Mean	5.4	8.3	8.4	7.7	7.6	6.6	8.2	.
		Std. Dev.	1.4	2.6	1.8	2.0	1.4	1.5	1.6	.
		Min.	3.2	4.1	5.2	3.0	4.9	2.7	5.0	.
		Max.	10.1	12.7	12.1	12.0	10.8	9.6	11.0	.
	male	N	26	10	19	22	16	14	.	.
	female	N	25	9	9	31	16	15	.	.
2+ Parr	Length	Mean	11.0	12.4	11.6	11.6	11.3	12.5	12.5	9.9
		Std. Dev.	0.6	1.5	1.1	1.2	0.5	1.0	0.9	1.5
		Min.	10.1	10.2	10.7	10.5	10.5	11.4	10.3	8.4
		Max.	12.5	14.6	13.5	14.5	12.1	14.7	14.2	12.6
		N	36	9	5	10	8	11	22	9
	Weight	Mean	13.5	20.8	15.7	16.9	15.5	21.9	20.1	.
		Std. Dev.	2.4	8.3	4.5	5.7	2.2	4.6	3.5	.
		Min.	10.0	10.4	12.5	11.8	12.7	16.1	11.2	.
		Max.	19.0	33.2	23.5	30.2	18.6	31.3	26.3	.
	male	N	21	7	3	7	5	4	.	.
	female	N	15	2	2	3	3	7	.	.
3+ Parr	Length	Mean	.	.	.	.	.	14.0	12.9	.
		Std. Dev.	.	.	.	.	.	0.5	0.4	.
		Min.	.	.	.	.	.	13.5	12.7	.
		Max.	.	.	.	.	.	14.5	13.2	.
	Weight	N	.	.	.	.	.	3	2	.
		Mean	.	.	.	.	.	28.9	.	.
		Std. Dev.	.	.	.	.	.	5.3	.	.
		Min.	.	.	.	.	.	24.3	.	.
4+ Parr	Length	Max.	.	.	.	.	.	34.7	.	.
		Mean	.	.	.	.	.	15.0	.	.
		Std. Dev.	.	.	.	.	.	.	.	.
		Min.	.	.	.	.	.	15.0	.	.
	Weight	Max.	.	.	.	.	.	15.0	.	.
		Mean	.	.	.	.	.	35.8	.	.
		Std. Dev.	.	.	.	.	.	.	.	.
		Min.	.	.	.	.	.	35.8	.	.
		Max.	.	.	.	.	.	35.8	.	.

* 1987 - spot check, not a population estimate survey.

Table 16 (cont'd).

Site 52			1957	1958	1959	1960	1961	1965	1968	1987*
			July 26	July 29	Aug. 1	July 30	July 27	Aug. 12	Aug. 18	July 29
0+ Fry	Length	Mean	3.4	4.2	4.3	.	3.7	4.3	5.8	.
		Std. Dev.	0.2	0.2	0.1	.	0.3	0.3	0.5	.
		Min.	3.1	3.6	4.2	.	3.0	4.0	4.5	.
		Max.	3.5	4.5	4.4	.	4.1	4.6	6.5	.
		N	6	17	5	.	14	12	16	.
	Weight	Mean	0.5	0.6	0.8	.	0.5	0.9	2.0	.
		Std. Dev.	0.1	0.1	0.1	.	0.1	0.2	0.4	.
		Min.	0.4	0.4	0.7	.	0.4	0.7	1.0	.
		Max.	0.6	0.8	0.9	.	0.8	1.1	2.8	.
	male	N	.	.	.	.	.	6	.	.
	female	N	.	.	.	.	.	3	.	.
1+ Parr	Length	Mean	7.7	8.7	9.0	8.7	9.2	8.3	8.9	.
		Std. Dev.	0.7	0.6	0.7	0.5	0.4	0.6	0.6	.
		Min.	6.7	7.6	7.4	7.4	8.3	7.0	7.7	.
		Max.	9.2	10.2	10.6	10.5	10.0	9.1	10.0	.
		N	17	40	47	72	23	15	28	.
	Weight	Mean	4.4	6.5	7.5	6.9	7.8	6.5	7.5	.
		Std. Dev.	1.2	1.4	2.0	1.5	1.0	1.4	1.8	.
		Min.	3.0	4.3	3.9	3.7	5.9	3.7	4.5	.
		Max.	7.5	10.9	12.7	13.2	10.4	8.6	12.5	.
	male	N	8	16	34	42	14	10	.	.
	female	N	8	24	12	30	9	5	.	.
2+ Parr	Length	Mean	11.1	11.3	12.0	11.3	10.8	11.3	12.0	10.8
		Std. Dev.	0.7	0.7	0.5	0.4	0.8	0.9	0.7	1.4
		Min.	10.1	10.0	11.0	10.8	9.6	10.2	11.0	9.1
		Max.	12.6	12.2	12.7	12.1	11.9	12.9	13.7	13.2
		N	11	20	8	10	12	12	19	10
	Weight	Mean	13.9	15.7	16.8	16.2	13.8	17.0	18.8	.
		Std. Dev.	3.0	3.3	1.7	2.3	3.4	3.9	3.2	.
		Min.	9.3	10.4	13.3	13.8	8.5	12.9	14.5	.
		Max.	19.0	21.0	19.3	20.2	19.3	26.5	26.2	.
	male	N	6	12	4	9	8	10	.	.
	female	N	5	8	4	1	4	2	.	.
3+ Parr	Length	Mean	12.2	.	.	.	.	.	13.6	12.8
		Std. Dev.	.	.	.	.	.	.	0.3	0.4
		Min.	12.2	.	.	.	.	.	13.4	12.3
		Max.	12.2	.	.	.	.	.	14.0	13.3
		N	1	.	.	.	.	.	3	5
	Weight	Mean	20.9	.	.	.	.	.	28.7	.
		Std. Dev.	.	.	.	.	.	.	2.5	.
		Min.	20.9	.	.	.	.	.	26.4	.
		Max.	20.9	.	.	.	.	.	31.3	.
	male	N	1	.	.	.	.	.	.	.

*1987 - spot check, not a population estimate survey.

Table 16 (cont'd.).

Site 53			1965 Aug. 4	1968 Aug. 13
0+ Fry	Length	Mean	4.4	5.2
		Std. Dev.	0.4	0.3
		Min.	3.8	4.6
		Max.	5.1	5.8
		N	25	28
	Weight	Mean	1.0	1.5
		Std. Dev.	0.3	0.3
		Min.	0.6	1.0
		Max.	1.4	2.1
	male	N	16	.
	female	N	9	.
1+ Parr	Length	Mean	9.5	9.8
		Std. Dev.	0.9	0.6
		Min.	8.2	8.4
		Max.	10.7	11.4
		N	5	45
	Weight	Mean	9.7	9.7
		Std. Dev.	2.7	1.7
		Min.	6.1	5.6
		Max.	13.6	13.6
	female	N	5	.

Site 54		1957 Aug. 2	1958 Aug. 6	1959 Aug. 3	1960 Aug. 8	1961 Aug. 2	1965 Aug. 5	1968 Aug. 14
0+ Fry	Length	Mean	4.2	5.6	5.0	.	4.6	4.2
		Std. Dev.	0.3	0.2	0.7	.	0.3	0.4
		Min.	3.7	5.1	4.1	.	4.2	3.5
		Max.	4.6	5.8	5.8	.	5.1	4.9
		N	27	7	8	.	11	19
	Weight	Mean	0.7	1.7	1.5	.	1.2	0.9
		Std. Dev.	0.2	0.2	0.6	.	0.2	0.2
		Min.	0.4	1.5	0.9	.	0.9	0.4
		Max.	1.0	1.9	2.7	.	1.6	1.3
	male	N	.	.	.	.	.	9
	female	N	.	.	.	.	.	7
1+ Parr	Length	Mean	8.9	9.5	10.1	9.7	9.7	8.7
		Std. Dev.	1.0	0.8	0.7	0.9	1.0	0.8
		Min.	7.2	8.0	8.6	8.3	8.0	6.7
		Max.	12.0	10.6	11.2	11.9	11.5	10.9
		N	41	13	12	24	22	13
	Weight	Mean	6.6	9.5	11.3	9.5	9.7	7.8
		Std. Dev.	3.0	2.5	2.1	2.8	3.0	1.9
		Min.	3.2	5.7	6.9	5.3	4.8	3.3
		Max.	16.8	14.5	14.2	16.3	15.9	13.0
	male	N	20	9	5	12	12	7
	female	N	19	4	7	12	10	6
2+ Parr	Length	Mean	11.2	.	.	.	12.6	12.4
		Std. Dev.	0.7	.	.	.	.	0.8
		Min.	10.7	.	.	.	12.6	11.2
		Max.	12.0	.	.	.	12.6	14.0
		N	3	.	.	.	1	8
	Weight	Mean	12.6	.	.	.	19.6	21.8
		Std. Dev.	2.2	.	.	.	.	4.7
		Min.	10.8	.	.	.	19.6	16.7
		Max.	15.0	.	.	.	19.6	32.0
	male	N	.	.	.	.	1	4
	female	N	3	.	.	.	.	4

Table 17. Length and weight at age of Atlantic salmon sampled from the headwater sites of the Northeast Margaree River in 1968. Length is in cm and weight in grams. Ages determined from scale samples.

		Site -	57	58	59	60
			1968	1968	1968	1968
			Aug.	July	Aug.	Aug.
			2	31	1	8
0+ Fry	Length	Mean	4.1	.	3.7	4.2
		Std. Dev.	0.3	.	0.3	0.3
		Min.	3.6	.	3.3	4.0
		Max.	4.5	.	4.2	4.5
	Weight	N	11	.	14	3
		Mean	0.6	.	0.5	0.8
		Std. Dev.	0.1	.	0.2	0.2
		Min.	0.4	.	0.3	0.6
1+ Parr	Length	Max.	0.8	.	0.8	1.0
		Mean	8.6	8.1	7.2	8.2
		Std. Dev.	0.7	0.6	0.6	0.5
		Min.	7.1	6.6	5.9	7.1
	Weight	Max.	9.5	9.2	8.9	9.0
		N	34	38	59	24
		Mean	6.9	5.8	4.4	6.3
		Std. Dev.	1.6	1.4	1.2	1.2
2+ Parr	Length	Min.	3.6	3.3	2.2	3.5
		Max.	9.4	9.0	8.4	9.1
		Mean	11.8	11.6	10.9	11.2
		Std. Dev.	0.6	0.7	0.7	0.8
	Weight	Min.	10.9	10.0	9.6	9.6
		Max.	13.3	12.9	12.3	12.5
		N	23	21	25	13
		Mean	17.6	17.2	14.5	15.4
3+ Parr	Length	Std. Dev.	2.2	3.1	2.1	2.9
		Min.	14.0	11.9	10.3	10.4
		Max.	21.5	23.6	18.1	20.8
		Mean	14.2	13.1	12.7	12.5
	Weight	Std. Dev.	.	0.9	0.3	0.5
		Min.	14.2	12.2	12.3	11.6
		Max.	14.2	14.6	13.0	13.4
		N	1	5	4	14
4+ Parr	Length	Mean	33.7	26.0	24.8	22.9
		Std. Dev.	.	5.2	2.1	3.1
		Min.	33.7	22.8	22.6	17.7
		Max.	33.7	35.0	27.1	28.7
	Weight	Mean	.	.	.	15.4
		Std. Dev.	.	.	.	0.6
		Min.	.	.	.	14.9
		Max.	.	.	.	15.8
N	N	N	.	.	.	2
		Mean	.	.	.	38.5
		Std. Dev.	.	.	.	6.7
		Min.	.	.	.	33.7
		Max.	.	.	.	43.2

Table 18. Length and weight at age of Atlantic salmon sampled from the Southwest Margaree main river and tributary sites, 1957 to 1987. Length is in cm and weight in grams. Male and female numbers refer to individuals for which sex could be determined. Ages determined from scale samples.

Site -		93		95*		97			98*	
		1957	1987	1957	1959	1961	1965	1987		
		July 27	Sept. 11	July 28	Aug. 12	July 30	Aug. 18	Sept. 12		
0+ Fry	Length	Mean	4.9	.	.	4.5	4.5	4.9	.	
		Std. Dev.	0.3	.	.	0.5	0.1	.	.	
		Min.	4.4	.	.	4.2	4.4	4.9	.	
		Max.	5.5	.	.	5.1	4.6	4.9	.	
		N	23	.	.	3	3	1	.	
Weight	Mean	1.5	.	.	1.2	1.0	1.3	.	.	
		Std. Dev.	0.3	.	.	0.5	0.1	.	.	
		Min.	1.0	.	.	0.8	0.9	1.3	.	
		Max.	2.0	.	.	1.7	1.0	1.3	.	
	female	N	.	.	.	.	.	1	.	
1+ Parr	Length	Mean	10.0	10.0	10.1	.	9.7	13.1	8.6	
		Std. Dev.	1.0	0.4	0.4	.	2.8	.	1.0	
		Min.	7.6	9.4	9.8	.	7.8	13.1	7.3	
		Max.	11.4	10.5	10.4	.	11.7	13.1	9.9	
		N	21	6	2	.	2	1	5	
Weight	Mean	11.3	.	11.6	.	11.8	26.4	.	.	
		Std. Dev.	3.4	.	2.1	.	8.9	.	.	
		Min.	4.4	.	10.1	.	5.5	26.4	.	
		Max.	16.5	.	13.0	.	18.1	26.4	.	
	male	N	14	.	2	.	.	.	.
	female	N	7	.	.	.	2	1	.	
2+ Parr	Length	Mean	.	.	12.5	12.9	13.9	12.0	11.0	
		Std. Dev.	.	.	.	1.0	.	1.3	1.5	
		Min.	.	.	12.5	12.2	13.9	10.7	9.3	
		Max.	.	.	12.5	13.6	13.9	13.8	12.0	
		N	.	.	1	2	1	5	3	
Weight	Mean	.	.	24.5	25.4	31.9	21.7	.	.	
		Std. Dev.	.	.	.	7.7	.	7.7	.	
		Min.	.	.	24.5	20.0	31.9	14.1	.	
		Max.	.	.	24.5	30.9	31.9	33.9	.	
	male	N	.	.	.	1	1	2	.	
	female	N	.	.	1	1	.	3	.	
3+ Parr	Length	Mean	.	.	.	.	.	14.0	.	
		Std. Dev.	.	.	.	.	.	.	.
		Min.	.	.	.	.	.	14.0	.	
		Max.	.	.	.	.	.	14.0	.	
		N	.	.	.	.	.	1	.	
Weight	Mean	.	.	.	.	.	.	32.6	.	
		Std. Dev.	.	.	.	.	.	.	.
		Min.	.	.	.	.	.	32.6	.	
		Max.	.	.	.	.	.	32.6	.	
	male	N	.	.	.	.	.	1	.	

*1987 - spot check, not a population estimate survey.

Table 19. Length - weight regression parameters for fry sampled from Margaree River sites, 1957 to 1987. Regressions are calculated using $\log(10)$ of length (cm) and weight (g). Min and max length refer to the range of the predictor variable. R refers to R-square. All regressions are significant ($p < 0.05$).

Year	Date	Site #	Length (cm)			Regression Parameters		
			N	Min	Max	slope	interc	R
1957	July 24	41	8	3.0	4.0	3.921	-2.495	0.72
	July 25	42	6	3.4	3.7	6.022	-3.566	0.83
	July 25	43	13	3.0	4.0	3.471	-2.283	0.57
	July 29	51	30	3.0	4.1	1.682	-1.216	0.39
	Aug. 2	54	27	3.7	4.6	3.132	-2.143	0.69
	July 27	93	21	4.4	5.5	2.738	-1.721	0.58
1958	July 26	41	9	3.5	4.2	2.582	-1.701	0.67
	July 28	43	14	4.0	5.0	2.189	-1.544	0.51
	July 29	52	17	3.6	4.5	2.076	-1.513	0.43
1959	July 29	41	12	4.0	5.0	1.491	-1.021	0.34
	July 31	42	20	4.0	4.8	3.036	-1.985	0.47
	July 30	43	15	3.9	6.3	2.721	-1.782	0.92
	Aug. 6	51	6	4.0	5.0	2.525	-1.666	0.91
	Aug. 3	54	8	4.1	5.8	2.812	-1.815	0.90
1960	Aug. 1	51	5	4.6	5.3	3.509	-2.355	0.78
1961	July 19	40	16	3.3	4.7	4.482	-2.815	0.84
	July 21	41	10	3.2	3.6	4.592	-2.838	0.62
	July 22	42	14	3.2	3.9	4.047	-2.602	0.66
	July 21	43	13	3.4	3.7	3.860	-2.480	0.36
	July 28	51	16	3.4	4.8	2.321	-1.587	0.83
	July 27	52	14	3.0	4.1	1.882	-1.354	0.51
	Aug. 2	54	11	4.2	5.1	2.539	-1.628	0.87
1965	Aug. 19	15	12	4.8	5.5	2.194	-1.375	0.54
	Sept. 22	24	5	4.8	6.5	2.030	-1.226	0.90
	Sept. 13	31	10	4.9	5.5	1.794	-1.056	0.86
	Oct. 13	33	6	4.5	5.0	2.612	-1.655	0.82
	Aug. 11	51	10	3.8	4.4	3.075	-2.023	0.74
	Aug. 12	52	11	4.0	4.6	2.727	-1.787	0.89
	Aug. 4	53	25	3.8	5.1	2.938	-1.902	0.95
	Aug. 5	54	19	3.5	4.9	3.027	-1.966	0.92
1968	Sept. 17	2	23	5.2	7.2	2.722	-1.792	0.93
	Sept. 16	3	18	5.1	6.2	2.985	-1.988	0.90
	Aug. 29	4	9	5.2	6.4	2.906	-1.974	0.98
	Sept. 20	15	19	5.5	7.1	3.242	-2.223	0.91
	Aug. 15	22	19	5.0	5.8	2.665	-1.768	0.61
	Sept. 22	24	25	4.2	6.6	2.931	-1.969	0.95
	Sept. 24	31	27	4.7	6.6	2.755	-1.825	0.93
	Sept. 13	40	20	4.7	6.0	2.875	-1.927	0.86
	Aug. 9	41	14	3.5	5.3	3.235	-2.151	0.97
	Sept. 12	42	33	3.9	5.6	2.737	-1.857	0.93
	Sept. 11	43	48	4.0	5.8	2.954	-1.982	0.90
	Sept. 19	51	18	4.9	6.0	3.030	-2.009	0.85
	Aug. 18	52	16	4.5	6.5	2.811	-1.843	0.96
	Aug. 13	53	28	4.6	5.8	2.823	-1.869	0.88
	Aug. 14	54	21	4.5	6.9	3.070	-2.028	0.98
1986	July 13	45	46	3.0	4.4	2.603	-1.737	0.57
	Aug. 21	45	50	4.1	5.9	3.118	-2.063	0.72
1987	July 30	15	38	4.1	6.1	3.120	-2.066	0.94
	July 28	45	49	2.8	4.5	3.107	-2.051	0.82

Table 20. Length - weight regression parameters for parr sampled from Margaree River sites, 1957 to 1987. Regressions are calculated using log(10) of length (cm) and weight (g). Min and max length refer to the length range of the predictor variable. R refers to R-square. All regressions are significant ($p < 0.05$).

Year	Date	Site #	Length (cm)			Regression Parameters		
			N	Min	Max	slope	interc	R
1957	July 24	40	18	7.2	11.5	2.986	-1.965	0.99
	July 24	41	19	6.9	14.2	2.997	-2.004	0.99
	July 25	42	20	7.0	12.3	2.882	-1.880	0.99
	July 25	43	31	6.8	11.7	3.025	-2.039	0.99
	July 29	51	87	7.0	12.5	3.102	-2.107	0.98
	July 26	52	29	6.7	12.6	3.172	-2.176	0.99
	Aug. 2	54	44	7.2	12.0	3.054	-2.097	0.94
	July 27	93	20	7.6	11.4	3.783	-2.801	0.36
	July 28	97	3	9.8	12.5	3.595	-2.552	0.99
1958	July 25	40	33	7.5	12.3	3.168	-2.169	0.97
	July 26	41	67	6.5	12.7	3.173	-2.170	0.98
	July 28	42	49	7.0	12.6	3.007	-1.993	0.97
	July 28	43	23	6.4	12.3	3.156	-2.136	0.97
	Aug. 4	51	30	7.8	14.6	3.281	-2.300	0.97
	July 29	52	60	7.6	12.2	3.285	-2.283	0.97
	Aug. 6	54	13	8.0	10.6	2.983	-1.944	0.94
1959	July 28	40	20	7.4	12.4	3.223	-2.213	0.98
	July 29	41	47	6.8	12.5	2.795	-1.805	0.69
	July 31	42	54	7.2	12.0	2.874	-1.873	0.94
	July 30	43	45	7.2	13.8	2.959	-1.959	0.97
	Aug. 6	51	34	8.0	13.5	2.790	-1.786	0.95
	Aug. 1	52	55	7.4	12.7	3.014	-2.015	0.95
	Aug. 3	54	12	8.6	11.2	2.536	-1.497	0.79
1960	July 21	40	34	7.2	12.7	3.092	-2.059	0.98
	July 26	41	65	6.0	12.5	2.942	-1.929	0.92
	July 28	42	49	7.0	11.4	2.923	-1.922	0.94
	July 27	43	45	7.3	12.1	3.080	-2.094	0.97
	Aug. 1	51	63	6.9	14.5	2.977	-1.960	0.97
	July 30	52	82	7.4	12.1	3.275	-2.246	0.96
	Aug. 8	54	24	8.3	11.9	2.904	-1.906	0.97
1961	July 19	40	40	7.0	11.6	2.920	-1.915	0.98
	July 21	41	40	7.3	13.2	2.864	-1.877	0.94
	July 22	42	45	6.4	11.5	3.037	-2.010	0.99
	July 21	43	40	7.1	11.0	2.902	-1.890	0.96
	July 28	51	40	7.5	12.1	2.917	-1.888	0.98
	July 27	52	35	8.3	11.9	3.330	-2.316	0.96
	Aug. 2	54	23	8.0	12.6	2.939	-1.929	0.95
1965	Aug. 19	15	18	9.0	16.0	2.833	-1.731	0.96
	Sept. 22	24	15	8.3	12.3	3.046	-1.990	0.87
	Sept. 13	31	17	7.4	15.3	2.857	-1.829	0.98
	Oct. 13	32	14	7.2	11.9	3.027	-2.006	0.99
	Aug. 11	51	40	6.2	14.7	2.938	-1.893	0.99
	Aug. 12	52	28	6.6	12.9	3.000	-1.945	0.99
	Aug. 4	53	5	8.2	10.7	2.978	-1.941	0.99
1968	Aug. 5	54	21	6.7	14.0	2.978	-1.919	0.99
	Aug. 18	97	7	10.7	14.0	3.024	-1.961	1.00
	Sept. 17	2	37	9.1	13.6	2.769	-1.759	0.94
	Sept. 16	3	62	7.5	12.0	2.944	-1.935	0.93
	Aug. 29	4	29	9.0	12.6	3.138	-2.119	0.86
	Sept. 20	15	37	8.7	14.4	2.746	-1.732	0.91
	Aug. 15	22	40	8.4	14.0	3.052	-2.064	0.98
	Sept. 22	24	57	7.7	12.4	2.845	-1.846	0.95
	Sept. 10	26	48	8.2	13.6	3.089	-2.069	0.96
	Sept. 9	27	40	7.3	13.3	3.046	-2.046	0.97
	Sept. 24	31	26	8.9	16.0	3.058	-2.055	0.96
	Sept. 13	40	45	6.9	13.2	2.977	-1.962	0.98
	Aug. 9	41	73	6.6	15.0	2.886	-1.894	0.92
	Sept. 12	42	56	6.9	12.4	3.055	-2.057	0.97
	Sept. 11	43	65	6.4	12.0	3.011	-2.001	0.97

Table 20 (cont'd).

Year	Date	Site #	Length (cm)			Regression Parameters		
			N	Min	Max	slope	interc	R
	Sept. 19	51	39	7.8	15.0	2.857	-1.834	0.95
	Aug. 18	52	50	7.7	14.0	3.096	-2.071	0.97
	Aug. 13	53	45	8.4	11.4	2.894	-1.884	0.92
	Aug. 14	54	37	8.1	13.1	2.989	-1.963	0.96
	Aug. 2	57	58	7.1	14.2	3.012	-1.988	0.98
	July 31	58	64	6.6	14.6	3.012	-1.973	0.99
	Aug. 1	59	88	5.9	13.0	2.980	-1.926	0.99
	Aug. 8	60	53	7.1	15.8	2.980	-1.932	0.98
1986	July 11	2	41	7.9	12.6	3.004	-1.921	0.97
	July 15	15	58	7.7	13.3	3.122	-2.047	0.96
	July 12	22	47	7.6	13.5	3.056	-1.946	0.94
	May 28	23	40	5.5	9.5	3.093	-1.943	0.98
	July 14	34	39	5.9	12.5	3.200	-2.105	0.99
	May 27	45	81	4.6	12.5	2.722	-1.662	0.96
	July 13	45	115	6.0	12.4	2.900	-1.846	0.98
	Aug. 21	45	75	6.7	11.1	2.692	-1.639	0.94
	July 23	51	93	6.2	12.8	2.742	-1.672	0.91
	July 24	52	45	7.8	13.5	2.926	-1.842	0.96
	July 25	55	24	8.0	11.9	2.825	-1.758	0.97
1987	July 30	15	65	7.4	13.8	2.996	-1.949	0.96
	July 27	22	53	8.0	15.3	3.053	-1.989	0.99
	July 28	45	164	5.7	11.7	3.064	-2.020	0.96

Table 21. Length frequencies of sampled Atlantic salmon from Gallant River sites, 1976 to 1986. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). The 'Fry' group represents young-of-the-year which were counted but not measured. Site #'s refer to those in Table 1 and Figure 2.

Table 22. Length frequencies of sampled Atlantic salmon from Big Brook sites, 1976 to 1987. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). The 'Fry' group represents young-of-the-year which were counted but not measured. Site #'s refer to those in Table 1 and Figure 3.

Table 23. Length frequencies of sampled Atlantic salmon from Lake O'Law Brook sites, 1976 to 1987. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). Site #'s refer to those in Table 1 and Figure 4.

Fork Length (cm)	Site 22						Site 23					
	1976 Aug. 5	1977 Aug. 3	1978 Aug. 7	1979 Jul. 11	1986 Jul. 12	1987 Jul. 27	1976 Aug. 26	1977 Aug. 2	1978 Aug. 8	1979 Aug. 10	1986 May 2	
	
2.2	.	.	.	.	.	.	.	.	.	.	.
2.7	.	.	.	.	.	.	.	.	.	.	.
3.2	.	.	.	.	.	.	.	.	.	.	.
3.7	.	.	.	.	.	.	.	9	2	.	.
4.2	.	.	.	.	.	.	.	35	19	7	.
4.7	.	.	23	.	.	.	10	76	73	54	.	
5.2	.	.	48	.	.	.	51	52	82	250	.	
5.7	2	.	39	.	.	.	71	4	30	74	5	
6.2	.	.	4	1	.	.	22	.	2	16	11	
6.7	.	.	1	.	.	.	2	.	.	3	8	
7.2	.	.	1	1	.	.	.	.	.	.	2
7.7	1	.	.	5	3	.	2	.	.	.	3	
8.2	8	.	.	12	4	12	7	3	4	16	2	
8.7	13	5	.	13	6	16	12	13	14	20	4	
9.2	16	10	7	26	6	6	17	17	22	34	3	
9.7	17	7	24	14	1	5	28	17	27	22	2	
10.2	5	6	10	12	2	2	18	14	29	18	.	
10.7	.	5	10	7	2	.	3	10	19	20	.	
11.2	1	2	9	7	10	1	6	5	8	9	.	
11.7	.	1	3	2	6	.	3	1	3	4	.	
12.2	4	2	2	.	2	2	2	3	6	6	.	
12.7	3	4	2	5	2	1	1	5	2	3	.	
13.2	3	3	3	2	3	3	2	1	4	2	.	
13.7	1	1	1	2	1	3	.	1	1	3	.	
14.2	1	.	1	1	.	.	.	.	1	.	.
14.7	1	1	.	.	.	1	.	.	.	.	.
15.2	1	.	1	.	.	1	.	.	.	.	.
15.7	.	.	.	.	.	.	.	.	.	1	.
16.2	.	1	.	.	.	.	.	.	.	.	.
16.7	.	.	.	.	.	.	.	.	.	.	.
17.2	1	.	.	.	.	.	.	.	.	.	.
17.7	.	.	.	.	.	.	.	.	.	.	.
18.2	.	.	.	.	.	.	.	.	.	.	.
18.7	.	.	.	.	.	.	.	.	.	.	.
19.2	.	.	.	.	.	.	.	.	.	.	.
19.7	.	.	.	.	.	.	.	.	.	.	.
20.2	.	.	.	.	.	.	.	.	.	.	.
20.7	.	.	.	.	1	.	.	.	.	.	.

Table 24. Length frequencies of sampled Atlantic salmon from Nile Brook and Ingram Brook sites, 1976 to 1986. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). Site #'s refer to those in Table 1 and Figure 5.

Table 25. Length frequencies of sampled Atlantic salmon from Forest Glen Brook sites, 1976 to 1987. Fork length values are midpoints of the length groups sampled (0.5 cm groups). The 'Fry' group represents young-of-the-year which were counted but not measured. Site #'s refer to those in Table 1 and Figure 6.

Table 25 (cont'd).

Table 26. Length frequencies of sampled Atlantic salmon from the Northeast Margaree River, Doyles Bridge and Cranton Bridge sites, 1976 to 1979. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). Site #'s refer to those in Table 1 and Figures 3 and 4.

Fork Length (cm)	Site 53			Site 54			
	1976 Jul. 29	1977 Aug. 24	1978 Jul. 28	1976 Jul. 26	1977 Aug. 9	1978 Jul. 27	1979 Jul. 26
	+	+	+	+	+	+	+
2.2	.	.	.	.	.	.	.
2.7	.	.	.	.	.	.	.
3.2	.	.	.	.	1	1	.
3.7	3	.	1	.	.	.	1
4.2	10	.	1	1	3	18	3
4.7	6	.	.	2	8	35	19
5.2	26	11	.	21	27	16	179
5.7	11	10	1	25	12	4	70
6.2	.	1	.	4	1	.	16
6.7	.	.	.	.	.	.	.
7.2	.	.	.	.	.	.	.
7.7	.	.	.	.	.	.	.
8.2	.	.	.	1	1	4	.
8.7	.	.	.	4	1	4	.
9.2	.	.	.	5	2	14	.
9.7	1	.	.	22	1	35	5
10.2	.	.	.	25	8	27	15
10.7	.	1	1	17	16	38	12
11.2	1	1	.	23	14	12	13
11.7	1	2	.	14	24	20	7
12.2	.	.	.	5	13	3	5
12.7	.	.	.	1	8	2	1
13.2	.	.	.	.	3	1	1
13.7	.	.	.	1	1	1	1
14.2	.	.	.	.	.	.	2
14.7	.	.	.	.	1	2	.
15.2	.	.	.	.	.	.	.
15.7	.	.	.	1	.	.	.
16.2	.	.	.	.	.	.	.
16.7	.	.	.	.	.	.	.
17.2	.	.	.	.	.	.	.
17.7	.	.	.	.	.	.	.
18.2	.	.	.	.	.	.	.
18.7	.	.	.	.	.	.	.
19.2	.	.	.	.	.	.	.
19.7	.	.	.	.	.	.	.
20.2	.	.	.	.	.	.	.
20.7	.	.	.	.	.	.	.

Table 27. Length frequencies of sampled Atlantic salmon from the Northeast Margaree River, Old Bridge, Macleods, Ingram Bridge and Tent Pool sites, 1976 to 1986. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). The 'Fry' group represents young-of-the-year which were counted but not measured. Site #'s refer to those in Table 1 and Figures 5 and 6.

Table 28. Length frequencies of sampled Atlantic salmon from the Northeast Margaree River, headwater sites, 1977 to 1979. Fork length values are the midpoints of the length groups sampled (0.5 cm groups). Site #'s refer to those in Table 1 and Figure 7.

Fork Length (cm)	Site 57			Site 58		
	1977 Aug. 17	1978 Jul. 31	1979 Aug. 28	1977 Aug. 16	1978 Aug. 1	
	+	+	+	+	+	
2.2	.	.	.	.	.	.
2.7	.	.	.	.	.	.
3.2	.	.	.	.	.	.
3.7	.	17	.	2	.	.
4.2	27	35	.	4	1	.
4.7	69	17	7	11	7	.
5.2	24	1	28	1	.	.
5.7	.	.	8	.	.	.
6.2	.	.	1	.	.	.
6.7	.	.	.	.	.	.
7.2	.	.	.	.	.	.
7.7	.	1	.	.	1	.
8.2	.	1	.	1	2	.
8.7	.	1	.	4	5	.
9.2	1	5	.	4	13	.
9.7	4	5	2	6	9	.
10.2	5	2	.	16	5	.
10.7	5	.	2	6	3	.
11.2	.	.	1	4	.	.
11.7	.	.	.	1	1	.
12.2	1	.	1	2	2	.
12.7	.	.	2	5	2	.
13.2	1	.	.	4	4	.
13.7	.	.	.	6	5	.
14.2	.	.	1	.	.	.
14.7	.	.	.	3	1	.
15.2	.	.	.	2	.	.
15.7	.	.	.	.	.	.
16.2	.	.	.	.	.	1
16.7	.	.	.	.	.	.
17.2	.	.	.	.	.	.
17.7	.	.	.	.	.	.
18.2	.	.	.	.	.	.
18.7	.	.	.	.	.	.
19.2	.	.	.	.	.	.
19.7	.	.	.	.	.	.
20.2	.	.	.	.	.	.
20.7	.	.	.	.	.	.

Table 30. Adipose clipped parr sampled from tributaries of the Margaree River, 1977 to 1987. These have been excluded from biological characteristic summaries and population estimates.

Tributary	Site	Year	Date	No. Sample	% of Parr Catch	Length range
Big Brook	15	1977	Aug. 5	58	69.0	10.5 - 14.3
MacFarlanes Brook	96	1977	Aug. 17	33	61.1	10.5 - 14.3
Mt. Pleasant Brook	95	1977	Aug. 22	14	73.7	11.5 - 14.9
Ingram Bridge	55	1986	July 25	9	27.3	8.2 - 11.9
Forest Glen Brook	45	1987	July 28	4	1.7	13.0 - 15.1

Table 31. Catch and density (per 100 sq. m.) of other species from Gallant Brook. Site #'s refer to those in Figure 2 and Table 1.

Site	Sampling Date	Brook Trout							
		Juvenile/Adult		Fry		Eels		Gasterosteids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
2	1964 Oct. 10	6	.	.	.	3	.	.	.
	1965 Oct. 14	4	1	8	3	1	0	.	.
	1966 Aug. 29	5	2	19	7	5	2	.	.
	1967 Aug. 23	.	.	11	5	7	3	.	.
	1968 Sept. 17	12	5	.	.	2	1	.	.
	1975 Aug. 11	9	4	1	0	6	3	.	.
	1976 Aug. 9	3	1	204	79	6	2	.	.
	1979 July 27	1	0	7	3	1	0	.	.
	1986 July 11	8	2	8	2	.	.	.	.
	1986 July 11	8	2	8	2	.	.	.	.
3	1964 Aug. 28	5	2	12	5	1	0	.	.
	1965 Oct. 14	60	22	17	6	1	0	.	.
	1966 Aug. 30	32	12	29	11	3	1	.	.
	1967 Aug. 23	35	15	4	2	4	2	.	.
	1968 Sept. 16	24	8	.	.	.	.	.	.
	1975 Aug. 11	33	11	2	1	3	1	.	.
	1976 Aug. 9	20	6	8	2	3	1	.	.
	1978 Aug. 21	11	3	10	3	2	1	.	.
	1979 July 17	29	11	5	2	1	0	.	.
	1986 July 11	8	2	8	2	.	.	.	.
4	1966 Aug. 24	14	9	22	15	5	3	.	.
	1967 Aug. 22	16	11	15	10	1	1	.	.
	1968 Aug. 29	33	16	1	0	.	.	.	.
	1975 Aug. 19	43	25	6	4	.	.	.	.
	1976 Aug. 10	28	16	11	6	1	1	.	.
	1978 Aug. 18	8	6	16	13	2	2	.	.
5	1979 July 10	27	12	8	4	1	0	.	.
	1979 Aug. 21	2	5	10	27	3	8	1	3

Table 32. Catch and density (per 100 sq. m.) of other species from Big Brook and Tompkins Brook. Site #'s refer to those in Table I and Figure 3.

Site	Sampling Date	Brook Trout							
		Juvenile/adults		Fry		Eels		Gasterosteids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
12	1975 Aug. 5	58	15	13	3	.	.	.	.
	1976 Aug. 3	16	5	14	4	.	.	4	1
	1979 July 16	41	10	31	8	.	.	.	.
13	1975 Aug. 6	166	127	62	47	9	7	.	.
	1976 Aug. 4	60	26	40	17	1	< 1	.	.
14	1964 Aug. 21	126	84	180	120	2	1	.	.
	1965 Aug. 24	168	134	78	62	2	2	.	.
	1966 July 29	124	99	182	145	2	2	.	.
	1967 Aug. 22	111	89	142	113	1	1	.	.
15	1964 Sept. 29	66	23	.	.	12	4	.	.
	1965 Aug. 19	136	41	71	21	22	7	.	.
	1966 Aug. 18	154	33	104	23	21	5	.	.
	1967 Aug. 21	150	40	34	9	13	3	.	.
	1968 Sept. 20	154	48	16	5	5	2	.	.
	1975 July 31	142	32	13	3	6	1	.	.
	1976 July 30	61	151	36	89	6	15	.	.
	1977 Aug. 5	33	7	85	18	2	< 1	.	.
	1978 Aug. 9	51	16	92	28	3	1	.	.
	1979 July 16	140	44	38	12	1	< 1	.	.
	1986 July 15	30	9	93	28	1	< 1	.	.
	1987 July 30	12	4	132	42	1	< 1	10	3
18	1963 Sept. 4	30	22	173	125	.	.	.	.
	1964 Aug. 20	76	69	120	109	.	.	.	.
	1965 Aug. 13	132	120	104	94	2	2	.	.
	1966 Aug. 12	106	96	63	57	.	.	.	.
	1967 Aug. 11	89	80	88	79	.	.	.	.
19	1975 Aug. 1	173	97	95	53	.	.	.	.
	1976 Aug. 4	46	53	16	18	.	.	.	.

Table 33. Catch and density (per 100 m. sq.) of other species from Lake O'Law Brook. Site #'s refer to those in Table 1 and Figure 4.

Site	Sampling Date	Brook Trout									
		Juvenile/adults		Fry		Eels		Gasterosteids		Catastomids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
22	1963 Sept. 24	24	8	17	6	46	15	.	.	.	.
	1964 Aug. 11	16	5	25	8	52	16	.	.	.	.
	1966 Aug. 23	13	7	14	7	44	23	.	.	2	1
	1967 Aug. 18	18	7	7	3	38	15	.	.	.	.
	1968 Aug. 15	19	8	.	.	27	11	.	.	.	.
	1975 Aug. 7	60	23	18	7	45	18	.	.	1	< 1
	1976 Aug. 5	14	5	6	2	27	10	3	1	1	< 1
	1977 Aug. 3	13	4	59	17	23	7	2	1	2	1
	1978 Aug. 7	11	4	33	11	28	9	.	.	.	.
	1979 July 11	52	15	21	6	29	8	1	< 1	.	.
	1986 July 12	10	4	39	16	7	3	.	.	.	.
	1987 July 27	12	7	6	3	4	2	.	.	.	.
23	1975 Aug. 8	100	21	40	8	9	2	.	.	.	.
	1976 Aug. 26	25	3	43	5	.	.	.	.	.	.
	1977 Aug. 2	41	8	128	26	9	2	7	1	.	.
	1978 Aug. 8	43	104	82	198	4	10	.	.	.	.
	1979 Aug. 10	54	11	109	22	4	1	.	.	.	.
	1986 May 28	13	52	.	.	.	.	.	.	.	.
24	1964 Oct. 6	.	.	.	.	55	33	1	1	.	.
	1965 Sept. 22	60	33	14	8	.	.	.	.	.	.
	1966 Aug. 1	34	23	33	22	3	2	.	.	.	.
	1967 Aug. 11	48	26	2	1	3	2	.	.	.	.
	1968 Aug. 28	55	35	27	17	2	1	.	.	.	.

In 1978, 5 gaspereau were sampled from site 22 on Aug. 7.

Table 34. Catch and density (per 100 m. sq.) of other species from Nile Brook and Ingram Brook. Site #'s refer to those in Table 1 and Figure 5.

Site	Sampling Date	Brook Trout							
		Juvenile/adults		Fry		Eels		Gasterosteids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
26	1964 Aug. 19	82	0.47	66	0.38	10	0.06	.	.
	1966 Aug. 23	124	0.81	54	0.35	4	0.03	.	.
	1967 Aug. 10	108	0.62	6	0.03	2	0.01	.	.
	1968 Sept. 10	130	0.67	12	0.06	.	.	.	.
	1975 Aug. 20	90	0.56	10	0.09	.	.	.	.
	1976 Aug. 19	82	0.65	20	0.16	4	0.03	.	.
27	1964 Oct. 6	136	0.92	.	.	.	.	.	.
	1966 Aug. 15	36	0.24	74	0.50	.	.	.	.
	1967 Aug. 10	50	0.39	74	0.57	0	0.00	.	.
	1968 Sept. 9	148	0.53	.	.	2	0.01	.	.
	1975 Aug. 4	164	1.00	88	0.54	10	0.06	.	.
	1976 July 22	60	0.29	4	0.02	.	.	.	.
	1977 July 27	66	0.32	148	0.72	2	0.01	.	.
	1978 Aug. 8	46	0.27	54	0.32	.	.	.	.
	Aug. 11	54	0.32	38	0.22	.	.	.	.
	1979 July 9	84	0.40	42	0.20	4	0.02	.	.
31	1964 Oct. 8	112	0.60	.	.	.	.	.	.
	1965 Sept. 13	70	0.48	18	0.12	.	.	.	.
	1966 Sept. 1	28	0.16	60	0.35	.	.	.	.
	1967 Aug. 9	82	0.42	6	0.03	.	.	.	.
	1968 Sept. 24	62	0.39	.	.	.	.	.	.
	1975 Aug. 14	28	1.54	6	0.33	.	.	.	.
	1976 Aug. 12	38	0.20	30	0.16	.	.	.	.
	1977 July 28	10	0.05	66	0.32	2	0.01	.	.
	1978 Aug. 10	2	0.01	26	0.14	2	0.01	.	.
	1979 July 31	28	0.14	12	0.06	2	0.01	.	.
32	1964 Aug. 26	162	1.51	82	7.66	2	0.19	.	.
	1965 Oct. 13	168	0.90	38	0.20	4	0.02	.	.
	1966 Aug. 24	206	1.99	70	0.68	.	.	.	.
	1967 Aug. 8	174	1.30	44	0.33	.	.	.	.
	1975 Aug. 15	16	1.44	4	0.36	.	.	.	.
	1976 Aug. 16	30	2.54	26	2.20	.	.	.	.
	1978 Aug. 11	44	0.40	46	0.42	.	.	.	.
33	1964 Oct. 9	236	1.60	.	.	.	.	.	.
	1965 Oct. 13	212	1.64	66	0.51	.	.	.	.
	1966 Aug. 19	128	0.99	126	0.98	.	.	.	.
	1967 Aug. 8	194	1.51	58	0.45	.	.	.	.
	1975 Sept. 25	76	0.59	28	0.22	.	.	.	.
34	1975 Sept. 24	88	0.30	24	0.08	12	0.04	.	.
	1976 Aug. 18	168	0.39	196	0.45	8	0.02	2	0.00
	1978 Aug. 14	44	0.12	92	0.24	8	0.02	2	0.01
	1979 Aug. 17	52	0.13	112	0.27	6	0.01	.	.
	1986 July 14	34	0.09	40	0.10	.	.	.	.

Table 35. Catch and density (per 100 m. sq.) of other species from Forest Glen Brook. Site #'s refer to those in Table 1 and Figure 6.

Site	Sampling Date	Brook Trout							
		Juvenile/adults		Fry		Eels		Gasterosteids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
40	1957 July 24	28	6	.	.	7	2	.	.
	1958 July 25	38	9	.	.	1	< 1	.	.
	1959 July 28	44	11	.	.	7	2	.	.
	1960 July 21	28	7	.	.	4	1	.	.
	1961 July 19	36	9	.	.	7	2	3	1
	1963 Aug. 7	24	6	.	.	11	3	.	.
	1964 July 24	64	14	24	5	7	2	.	.
	1966 July 25	73	18	2	< 1	5	1	.	.
	1967 July 27	23	6	19	5	1	< 1	.	.
	1968 Sept. 13	96	38	3	1	1	< 1	.	.
	1969 Aug. 14	5	3	.	.	.	.	.	.
	1975 July 21	53	11	25	5	2	< 1	.	.
	1978 July 26	8	3	28	10	.	.	.	.
	July 28	1	< 1	16	6	1	< 1	.	.
41	1957 July 24	5	2	.	.	5	2	.	.
	1958 July 26	18	8	.	.	4	2	.	.
	1959 July 29	18	8	.	.	4	2	.	.
	1960 July 26	8	4	.	.	2	1	.	.
	1961 July 20	18	8	.	.	9	4	.	.
	1962 July 30	9	4	.	.	8	3	.	.
	1964 July 23	15	8	11	6	13	7	.	.
	1966 July 26	21	11	36	18	3	2	.	.
	1967 Aug. 7	19	91	2	10	1	5	.	.
	1968 Aug. 9	9	6	1	1	7	4	.	.
	1969 Aug. 13	22	13	17	10	1	1	.	.
	1975 Sept. 23	7	3	1	< 1	1	< 1	.	.
	1976 Aug. 17	4	1	3	1	1	< 1	.	.
	1977 Aug. 4	4	12	4	12	7	22	.	.
	1978 July 26	8	3	5	2	.	.	.	.
	July 12	7	3	.	.	.	.	.	.
42	1957 July 25	7	3	.	.	3	1	.	.
	1958 July 28	9	4	.	.	1	< 1	.	.
	1959 July 31	4	2	.	.	2	1	.	.
	1960 July 28	2	1	.	.	3	2	.	.
	1961 July 22	.	.	.	.	.	.	.	.
	1964 July 31	19	7	31	12	1	< 1	.	.
	1966 July 28	23	10	20	8	5	2	.	.
	1967 Aug. 4	15	7	17	8	4	2	.	.
	1968 Sept. 12	20	7	3	1	1	< 1	.	.
	1969 Aug. 19	6	2	11	4	1	< 1	.	.
	1975 July 23	37	9	9	2	2	< 1	.	.
	1975 Sept. 9	58	14	4	1	4	1	.	.
	1976 July 20	30	9	1	< 1	5	1	.	.
	1977 July 29	23	4	12	2	2	< 1	.	.
	1978 July 25	48	88	33	60	4	7	.	.
	July 25	39	70	10	18	4	7	.	.
43	1957 July 25	4	2	.	.	1	< 1	.	.
	1958 July 28	20	8	.	.	4	2	.	.
	1959 July 30	5	2	.	.	5	2	.	.
	1960 July 27	6	3	.	.	1	< 1	.	.
	1961 July 21	9	5	.	.	3	2	.	.
	1964 July 28	13	5	54	21	.	.	.	.
	1966 July 28	17	7	49	20	.	.	.	.
	1967 Aug. 7	12	4	3	1	1	< 1	.	.
	1968 Sept. 11	22	5	9	2	.	.	.	.
	1969 Aug. 12	30	8	13	3	1	< 1	.	.
	1977 July 25	34	39	24	28	3	3	.	.
45	1986 May 27	5	1	.	.	1	< 1	.	.
	July 13	1	< 1	.	.	.	.	.	.
	Aug. 21	1	< 1	.	.	3	1	.	.
	1987 July 28	1	< 1	1	< 1	.	.	1	< 1
47	1979 July 12	17	7	7	3	.	.	.	.

Table 36. Catch and density of other species from the Northeast Margaree River, main river sites. Site #'s refer to those in Table 1 and figures 3 to 6.

Site	Sampling Date	Brook Trout											
		Juvenile/adults				Fry				Eels		Gasterosteids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
51	1957 July 29	2	< 1	.	.	.	.	21	4	.	.	.	.
	1958 Aug. 4	1	< 1	.	.	.	.	14	3	.	.	.	.
	1959 Aug. 6	1	< 1	.	.	.	.	12	3	.	.	.	.
	1960 Aug. 1	.	.	.	.	.	.	17	6	.	.	.	.
	1961 July 28	3	1	.	.	.	.	23	9	.	.	.	.
	1963 Aug. 1	8	3	.	.	.	.	33	4	.	.	.	.
	1965 Aug. 11	35	4	.	.	.	.	17	2	.	.	.	.
	1966 Aug. 5	24	2	13	1	17	2	.	.	.	.	.	.
	1967 Aug. 2	27	2	.	.	20	2	.	.	.	.	.	.
	1968 Sept. 19	42	5	6	1	3	< 1	.	.	.	.	.	.
	1969 Aug. 18	7	1	12	1	6	< 1	.	.	.	.	.	.
	1975 July 24	8	1	19	3	4	1	.	.	.	.	.	.
	1976 July 23	17	4	3	1	3	1	.	.	.	.	.	.
	1977 Aug. 11	8	1	14	2	3	1	3	1	.	.	.	.
	1978 Aug. 3	16	3	18	3	4	1	1	< 1	.	.	.	.
	1979 Aug. 22	8	1	3	1	3	1	1	< 1	.	.	.	.
	1986 July 23	5	2	.	.	1	< 1	.	.	.	.	.	.
52	1957 July 26	15	2	.	.	9	1	.	.	.	.	.	.
	1958 July 29	12	2	.	.	3	< 1	.	.	.	.	.	.
	1959 Aug. 1	7	1	.	.	6	1	.	.	.	.	.	.
	1960 July 30	10	1	.	.	7	1	.	.	.	.	.	.
	1961 July 27	26	4	.	.	8	1	.	.	.	.	.	.
	1963 Aug. 8	61	8	.	.	9	1	.	.	.	.	.	.
	1965 Aug. 12	56	9	10	2	5	1	.	.	.	.	.	.
	1966 Aug. 4	18	3	7	1	8	1	.	.	.	.	.	.
	1967 Aug. 3	26	4	16	2	3	< 1	.	.	.	.	.	.
	1968 Sept. 18	62	9	2	< 1	1	< 1	.	.	.	.	.	.
	1969 Aug. 16	18	3	15	2	5	1	.	.	.	.	.	.
	1975 July 29	13	19	11	16	8	12	.	.	.	.	.	.
	Sept. 12	19	27	2	3	2	3	.	.	.	.	.	.
	1976 July 26	14	20	1	1	6	9	.	.	.	.	.	.
	1977 Aug. 12	10	1	10	1	3	< 1	2	< 1	.	.	.	.
	1978 Aug. 4	14	2	16	2	2	< 1	.	.	.	.	.	.
	1979 Aug. 20	3	< 1	5	1	4	1	.	.	.	.	.	.
	1986 July 24	12	2	7	1	2	< 1	.	.	.	.	.	.
53	1963 Aug. 23	1	< 1	.	.	.	.	.	.	.	.	.	.
	1964 Aug. 5	3	1	9	3	1	< 1	3	10	.	.	.	.
	1965 Aug. 4	16	3	3	1	1	< 1	.	.	.	.	.	.
	1966 Aug. 8	6	1	10	2	1	< 1	.	.	.	.	.	.
	1967 July 28	3	1	40	8	3	1	.	.	.	.	.	.
	1968 Aug. 13	11	2	.	.	1	< 1	.	.	.	.	.	.
	1969 Aug. 20	3	1	4	1	.	.	.	.	.	.	.	.
	1975 July 30	15	2	.	.	.	.	.	.	.	.	.	.
	1976 July 29	2	4	.	.	.	.	.	.	.	1	2	.
	1977 Aug. 24	.	.	7	1	.	.	2	< 1	2	< 1	.	.
	1978 July 28	.	.	3	1	.	.	.	.	.	.	.	.
54	1957 Aug. 2	4	1	.	.	24	5	.	.	.	.	.	.
	1958 Aug. 6	2	1	.	.	10	3	.	.	.	.	.	.
	1959 Aug. 3	6	2	.	.	10	3	.	.	.	.	.	.
	1960 Aug. 8	1	< 1	.	.	21	5	.	.	.	.	.	.
	1961 Aug. 2	5	2	.	.	40	14	.	.	.	.	.	.
	1963 Aug. 2	.	.	.	.	16	4	.	.	.	.	.	.
	1965 Aug. 5	15	4	.	.	9	2	.	.	.	.	.	.
	1966 Aug. 9	2	1	.	.	1	< 1	.	.	.	.	.	.
	1967 Aug. 1	5	1	18	4	14	3	.	.	.	.	.	.
	1968 Aug. 14	8	2	.	.	1	< 1	.	.	.	.	.	.
	1975 July 28	3	4	7	9	4	5	.	.	.	2	3	.
	1976 July 27	5	1	.	.	16	2	6	1	.	.	.	.
	1977 Aug. 9	9	1	10	1	25	3	4	< 1	.	.	.	.
	1978 July 27	11	1	20	2	17	2	1	< 1	.	.	.	.
	1979 July 26	22	2	3	< 1	13	1	.	.	.	.	.	.
55	1986 July 25	1	< 1	1	< 1	.	.	.	.	.	.	.	.
56	1975 Aug. 12	28	5	4	1	6	1	.	.	.	1	< 1	.
	Sept. 17	42	7	9	2	1	< 1	.	.	.	.	.	.
	1976 Aug. 13	8	1	3	< 1	8	1	.	.	.	.	.	.

Table 37. Catch and density (per 100 m. sq.) of other species from the headwater sites of the Northeast Margaree River. Site #'s refer to those in Table 1 and Figure 7.

Site	Sampling Date	Brook Trout					
		Juvenile/adults		Fry		Eels	
		total catch	est. density	total catch	est. density	total catch	est. density
57	1968 Aug. 2	15	7	3	1	6	3
	1969 Aug. 9	1	< 1	9	4	.	.
	1977 Aug. 17	1	< 1	17	8	.	.
	1978 July 31	2	1	12	7	1	1
	Aug. 1	2	1	4	2	1	1
	1979 Aug. 28	1	< 1	2	1	.	.
58	1967 Aug. 16	21	6	102	29	9	3
	1968 July 31	28	13	10	5	9	4
	1969 Aug. 7	26	12	18	8	12	6
	1977 Aug. 16	5	2	34	13	4	2
59	1978 Aug. 1	23	9	20	8	1	< 1
	1968 Aug. 1	76	36	4	2	1	< 1
60	1969 Aug. 8	98	46	15	7	.	.
60	1968 Aug. 8	28	14	4	2	1	1
	1969 Aug. 7	41	21	17	9	6	3

Table 38. Catch and density (per 100 m. sq.) of other species from the Southwest Margaree River and its tributaries. Site #'s refer to those in Table 1 and figures 1, 8 and 9.

Site	Sampling Date	Brook Trout									
		Juvenile\adults		Fry		Eels		Gasterosteids		Catastomids	
		total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density	total catch	est. density
90	1975 Aug. 22	.	.	.	.	19	4	.	.	.	.
	1976 Aug. 20	.	.	.	.	13	2	1	< 1	3	1
91	1966 Aug. 3	1	< 1	.	.	41	10	.	.	.	.
	1967 Aug. 24	.	.	.	.	50	7	.	.	.	.
92	1975 Sept. 4	.	.	.	.	36	5	.	.	7	1
	1976 July 27	.	.	.	.	66	8	.	.	13	2
93	1957 July 27	1	< 1	.	.	30	5	.	.	.	.
95	1975 Aug. 25	135	28	3	1	5	1	.	.	.	.
	1976 Aug. 25	21	4	12	2	2	< 1	.	.	.	.
	1977 Aug. 22	15	3	37	7	5	1	.	.	.	.
	1978 Aug. 24	14	3	69	16	1	< 1	.	.	.	.
96	1975 Aug. 27	56	15	14	4	4	1	.	.	.	.
	1976 Aug. 24	16	2	32	4	5	1	.	.	.	.
	1977 Aug. 17	4	1	75	17	3	1	.	.	.	.
	1978 Aug. 22	31	8	72	18	6	1	.	.	.	.
97	1957 July 28	.	.	.	.	138	14	.	.	1	< 1
	1959 Aug. 12	.	.	.	.	76	8	.	.	1	< 1
	1960 Aug. 5	.	.	.	.	247	25	.	.	.	.
	1961 July 31	.	.	.	.	51	5	.	.	2	< 1
	1963 Aug. 22	.	.	.	.	86	9	.	.	3	< 1
	1964 Aug. 9	2	< 1	.	.	114	11	.	.	8	1
	1965 Aug. 18	.	.	.	.	81	8	.	.	14	1
	1966 Aug. 2	2	< 1	.	.	88	9	.	.	15	1
	1967 Aug. 25	.	.	.	.	62	6	.	.	21	2
98	1981 Sept. 16	13	8	5	3	.	.	.	.	.	.
99	1981 Sept. 17	14	15	9	10	.	.	.	.	.	.
	1982 July 13	47	8	75	13	26	5	115	20	.	.
	1983 Oct. 12	49	9	44	8	1	< 1	.	.	.	.
	1984 Sept. 17	72	13	16	3	.	.	.	.	.	.
	1985 Sept. 9	160	51	12	4	.	.	3	1	.	.
	1986 Sept. 9	84	21	2	1	.	.	6	2	.	.

At site 97, 4 lake chub were sampled in 1965.

At site 97, 2 Fundulus sp. were sampled from each of 1963 and 1964.