

**Data from the Commercial
Fishery for Arctic Charr,
Salvelinus alpinus (L.), in the
Northwest Territories, 1985-86**

G.W. Carder

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

February 1988

**Canadian Data Report of
Fisheries and Aquatic Sciences
No. 681**

Canadian Industry Report of Fisheries and Aquatic Sciences

Industry reports contain the results of research and development useful to industry for either immediate or future application. They are directed primarily toward individuals in the primary and secondary sectors of the fishing and marine industries. No restriction is placed on subject matter and the series reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries and aquatic sciences.

Industry reports may be cited as full publications. The correct citation appears above the abstract of each report. Each report is abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Numbers 1-91 in this series were issued as Project Reports of the Industrial Development Branch, Technical Reports of the Industrial Development Branch, and Technical Reports of the Fisherman's Service Branch. Numbers 92-110 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Industry Reports. The current series name was changed with report number 111.

Industry reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out-of-stock reports will be supplied for a fee by commercial agents.

Rapport canadien à l'industrie sur les sciences halieutiques et aquatiques

Les rapports à l'industrie contiennent les résultats des activités de recherche et de développement qui peuvent être utiles à l'industrie pour des applications immédiates ou futures. Ils sont surtout destinés aux membres des secteurs primaire et secondaire de l'industrie des pêches et de la mer. Il n'y a aucune restriction quant au sujet; de fait, la série reflète la vaste gamme des intérêts et des politiques du ministère des Pêches et des Océans, c'est-à-dire les sciences halieutiques et aquatiques.

Les rapports à l'industrie peuvent être cités comme des publications complètes. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports à l'industrie sont résumés dans la revue *Résumés des sciences aquatiques et halieutiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros 1 à 91 de cette série ont été publiés à titre de rapports sur les travaux de la Direction du développement industriel, de rapports techniques de la Direction du développement industriel, et de rapports techniques de la Direction des services aux pêcheurs. Les numéros 92 à 110 sont parus à titre de rapports à l'industrie du Service des pêches et de la mer, ministère des Pêches et de l'Environnement. Le nom actuel de la série a été établi lors de la parution du numéro 111.

Les rapports à l'industrie sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Canadian Data Report of
Fisheries and Aquatic Sciences 681

February 1988

DATA FROM THE COMMERCIAL FISHERY FOR ARCTIC CHARR,
Salvelinus alpinus (L.), IN
THE NORTHWEST TERRITORIES, 1985-86

by

G. W. Carder

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

This is the 20th Data Report
from the Central and Arctic Region, Winnipeg

© Minister of Supply and Services Canada 1988

Cat. no. Fs 97-13/681E

ISSN 0706-6465

Correct citation for this publication is:

Carder, G.W. 1988. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the Northwest Territories, 1985-86. Can. Data Rep. Fish. Aquat. Sci. 681: v + 35 p.

TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT/RÉSUMÉ	v
INTRODUCTION	1
MATERIALS AND METHODS	1
The fisheries	1
Sampling program	1
ACKNOWLEDGMENTS	1
REFERENCES	1

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1 Map of the Cambridge Bay area showing locations of commercial fishing sites	3
2 Map of the Northwest Territories showing locations of commercial fishing sites at Coppermine and Hall Beach	4
3 Map of the Pelly Bay area showing locations of commercial fishing sites	5
4 Map of the Keewatin area showing locations of commercial fishing sites	6

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1 Commercial water bodies sampled during 1985 and 1986	7
2 Annual commercial quotas and production of anadromous Arctic charr by various fisheries in the NWT during 1985 and 1986	8
3 Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1985	10
4 Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1985	10
5 Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1986	11
6 Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1986	11
7 Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1985	12

Table

Page

8 Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1985	12
9 Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1986	13
10 Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1986	13
11 Age composition of Arctic charr taken by the commercial fishery (downstream migration) at Paliryuak River, 1985	14
12 Length composition of Arctic charr taken by the commercial fishery (downstream migration) at Paliryuak River, 1985	14
13 Age composition of Arctic charr taken by the commercial fishery (upstream migration) at Paliryuak River, 1985	15
14 Length composition of Arctic charr taken by the commercial fishery (upstream migration) at Paliryuak River, 1985	15
15 Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1986	16
16 Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1986	16
17 Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1985	17
18 Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1985	17
19 Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1986	18
20 Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1986	18
21 Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1985	19
22 Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1985	19
23 Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1986	20
24 Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1986	20

<u>Table</u>	<u>Page</u>
25 Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1985	21
26 Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1985	21
27 Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1986	22
28 Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1986	22
29 Age composition of Arctic charr taken by the commercial fishery at Coppermine River, 1986	23
30 Length composition of Arctic charr taken by the commercial fishery at Coppermine River, 1986	23
31 Age composition of Arctic charr taken by the commercial fishery at Hall Lake, 1986	24
32 Length composition of Arctic charr taken by the commercial fishery at Hall Lake, 1986	24
33 Age composition of Arctic charr taken by the commercial fishery at Becher River, 1985	25
34 Length composition of Arctic charr taken by the commercial fishery at Becher River, 1985	25
35 Age composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1986	26
36 Length composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1986	26
37 Length composition of Arctic charr taken by the commercial fishery at Kellett River, 1985	27
38 Age composition of Arctic charr taken by the commercial fishery at Keith Bay, 1985	28
39 Length composition of Arctic charr taken by the commercial fishery at Keith Bay, 1985	28
40 Age composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1986	29
41 Length composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1986	29
42 Age composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1985	30

<u>Table</u>	<u>Page</u>
43 Length composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1985	30
44 Age composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1986	31
45 Length composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1986	31
46 Age composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1986	32
47 Length composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1986	32
48 Age composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1986	33
49 Length composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1986	33
50 Age composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1986	34
51 Length composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1986	34
52 Age composition of Arctic charr taken by the commercial fishery at Maguse River, 1986	35
53 Length composition of Arctic charr taken by the commercial fishery at Maguse River, 1986	35

ABSTRACT

Carder, G.W. 1988. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the Northwest Territories, 1985-86. Can. Data Rep. Fish. Aquat. Sci. 681: v + 35 p.

Biological samples from commercially caught anadromous Arctic charr were collected during 1985 and 1986 from Arrowsmith River, Baker Foreland, Becher River, Coppermine River, Corbett Inlet, Ekalluk River, Ellice River, Hall Lake, Jayco River, Keith Bay, Kellett River, Lauchlan River, Maguse River, Paliryuak River, Pistol Bay, Rankin Inlet and Wilson Bay. Production figures, age, length and weight data from these and other fisheries are presented.

Key words: catch composition; catch statistics; commercial fishing; exploitation; fishery management; monitoring.

RÉSUMÉ

Carder, G.W. 1988. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the Northwest Territories, 1985-86. Can. Data Rep. Fish. Aquat. Sci. 681: v + 35 p.

Des échantillons ont été prélevés sur les prises commerciales d'ombles chevaliers anadromes faites au cours des années 1985 et 1986 dans la rivière Arrowsmith, dans les environs du promontoire Baker, dans la rivière Becher, la rivière Coppermine, le bras Corbett, la rivière Ekalluk, la rivière Ellice, le lac Hall, la rivière Jayco, la baie Keith, la rivière Kellett, la rivière Lauchlan, la rivière Maguse, la rivière Paliryuak, la baie Pistol, le bras Rankin et la baie Wilson. Sont également présentés des chiffres sur le nombre et sur l'âge, la longueur et le poids des sujets capturés dans ces pêches et dans d'autres des Territoires du Nord-Ouest.

Mots-clés: composition des prises; statistiques sur la prise; pêche commerciale; exploitation; gestion de pêcherie; contrôle.

INTRODUCTION

The Department of Fisheries and Oceans (DFO) has monitored the commercial fishery at Cambridge Bay, Northwest Territories (NWT) since 1971 (Kristofferson and Carder 1980; Carder 1981, 1983; Carder and Low 1985) and Rankin Inlet, Northwest Territories since 1972 (Carder 1983; Carder and Peet 1983; Carder and Low 1985). Information collected from biological samples taken has been used to assess the status of the catchable portion of anadromous Arctic charr stocks. Data obtained from these above areas and the Coppermine, Pelly Bay and Hall Beach fisheries during 1985 and 1986 are presented in this report. Quotas and production figures from other commercial Arctic charr fisheries in the Northwest Territories are shown as well.

MATERIALS AND METHODS

THE FISHERIES

The early history of the Cambridge Bay commercial fishery is described by Barlishen and Webber (1973) and the Rankin Inlet commercial fishery by Carder and Peet (1983). Recent data and a description of the Cambridge Bay area can be found in Kristofferson and Carder (1980), Carder (1981) Carder (1983), Carder and Low (1985) and the Rankin Inlet area in Carder (1983), Carder and Peet (1983), and Carder and Low (1985). Recent data from the Coppermine fishery can be found in Gillman and Kristofferson (1984) and from the Pelly Bay fishery in Kristofferson et al. (1982).

Arctic charr are caught primarily by gill nets with mesh sizes varying from 139 mm to 159 mm stretched measure. In 1986 during the upstream migration Jayco River was fished using an experimental fish weir (saputit) (Carder 1981; Kristofferson et al. 1986).

SAMPLING PROGRAM

Sampling methods are described in Kristofferson and Carder (1980) and Carder and Peet (1983). Details of sampling are shown in Table 1. Fishing locations are shown in Fig. 1, 2, 3 and 4.

Quotas and production figures are shown in Table 2. Biological data are presented in Tables 3-53. All tables of length data designate the lower boundary of the length interval (e.g. 450 indicates length interval 450-499 mm).

ACKNOWLEDGMENTS

The author wishes to thank the commercial fishermen of the Cambridge Bay, Coppermine, Rankin Inlet, Pelly Bay and Hall Beach areas. Also, the staff of the Ikaluktutiak Co-operative Ltd., Cambridge Bay and the Issatik processing plant, Rankin Inlet for their assistance and cooperation.

Summer field assistance at Cambridge Bay was provided by T. Buttenham, R. Cotton, K. Fisher and G. Hordal of DFO Field Services during 1985 and 1986. Assistance in Rankin Inlet was provided by D. Archibald and staff of DFO, Rankin Inlet.

The author wishes to thank the following people from the Department of Renewable Resources, Government of the Northwest Territories who provided logistic support and help with the sampling programs in the Coppermine and Pelly Bay fisheries, namely C. Adjun, J. Ashevak and J. Stevenson. Additional assistance was provided by T. Kayaitok and M. Puhan.

Thanks to E. Iqittuq who sampled Arctic charr at Hall Lake near Hall Beach.

Thanks also to L. Dahlke, DFO, Eastern Arctic area biologist and to G. Low, DFO South/Central Arctic area biologist for their logistic support and help.

A.H. Kristofferson provided scientific advice and reviewed the final draft of this report. Drafting was done by graphic services. Word processing and typing services were done by B. Hyman and C. Catt.

REFERENCES

- BARLISHEN, W.J., and T.N. WEBBER. 1973. A history of the development of commercial fishing in the Cambridge Bay area of the Northwest Territories. Unpublished report for the Federal-Territorial Task Force Report on Fisheries Development in the Northwest Territories. 37 p.
- CARDER, G.W. 1981. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (Linnaeus), in the Cambridge Bay Area, Northwest Territories 1979-80. Can. Data Rep. Fish. Aquat. Sci. 284: v + 22 p.
- CARDER, G.W. 1983. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (Linnaeus), in the Cambridge Bay and Rankin Inlet areas, Northwest Territories 1981-82. Can. Data Rep. Fish. Aquat. Sci. 391: v + 24 p.
- CARDER, G.W., and G. LOW. 1985. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (Linnaeus), in the Cambridge Bay and Rankin Inlet areas, Northwest Territories, 1983-84. Can. Data Rep. Fish. Aquat. Sci. 519: v + 26 p.
- CARDER, G.W., and R.F. PEET. 1983. Data from the commercial fishery for Arctic char, Salvelinus alpinus (Linnaeus), in the district of Keewatin, Northwest Territories, 1973-81. Can. Data Rep. Fish. Aquat. Sci. 357: vii + 65 p.
- GILLMAN, D.V., and A.H. KRISTOFFERSON. 1984. Biological data on Arctic charr, Salvelinus alpinus (L.) from the Coppermine

River, Northwest Territories, 1981-82. Can. Data Rep. Fish. Aquat. Sci. 440: iv + 16 p.

KRISTOFFERSON, A.H., and G.W. CARDER. 1980. Data from the commercial fishery for Arctic char, Salvelinus alpinus (Linnaeus), in the Cambridge Bay area, Northwest Territories, 1971-78. Can. Data Rep. Fish. Aquat. Sci. 184: v + 25 p.

KRISTOFFERSON, A.H., D.R. LEROUX, and J.R. ORR. 1982. A biological assessment of Arctic char, Salvelinus alpinus (L.) stocks in the Gjoa Haven - Pelly Bay area of the Northwest Territories, 1979-80. Can. Manuscr. Rep. Fish. Aquat. Sci. 1591: vi + 51 p.

KRISTOFFERSON, A.H., D.K. MCGOWAN, and W.J. WARD. 1986. Fish weirs for the commercial harvest of searun Arctic charr in the Northwest Territories. Can. Ind. Rep. Fish. Aquat. Sci. 174: iv + 31 p.

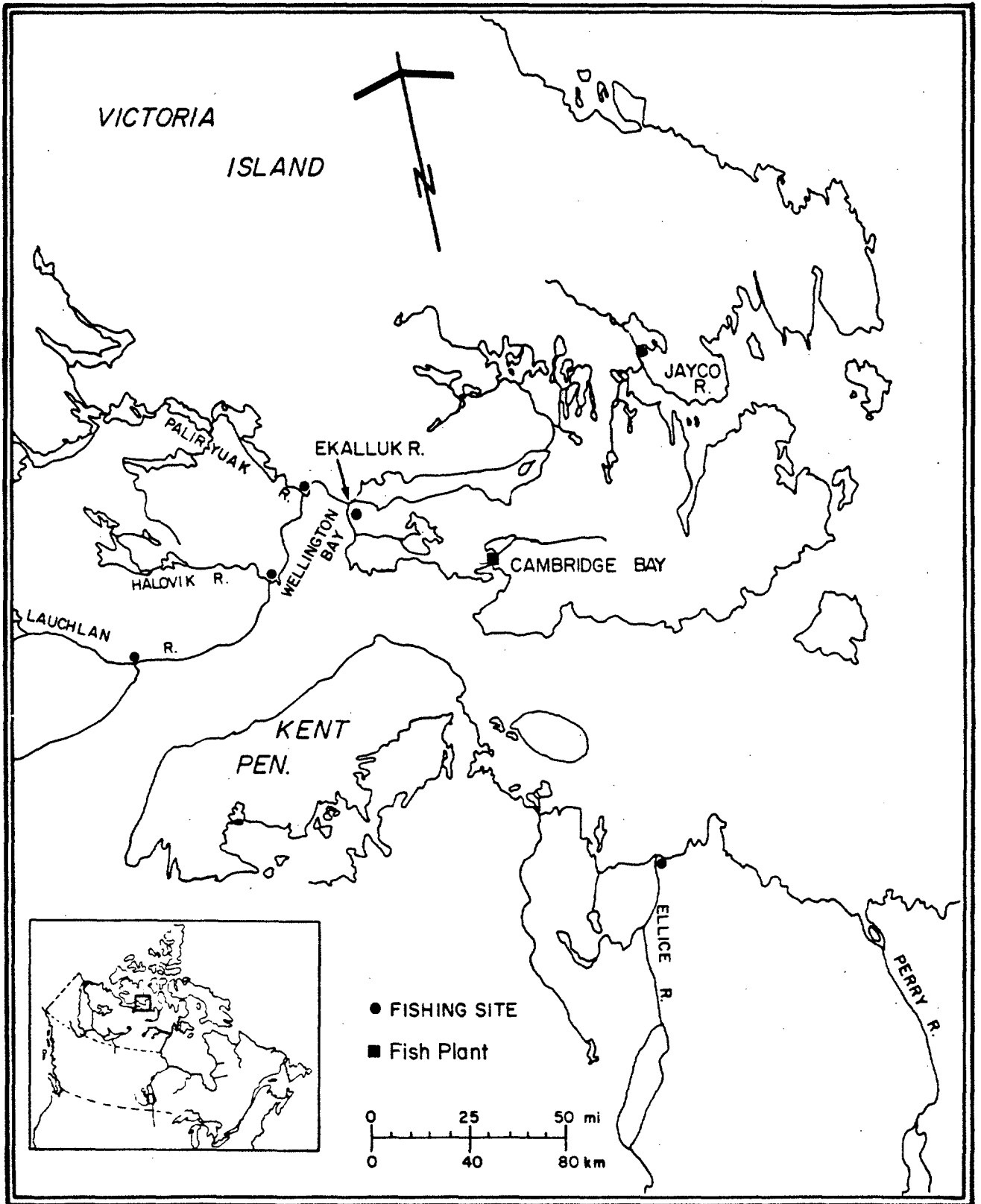


Fig. 1. Map of the Cambridge Bay area showing locations of commercial fishing sites.

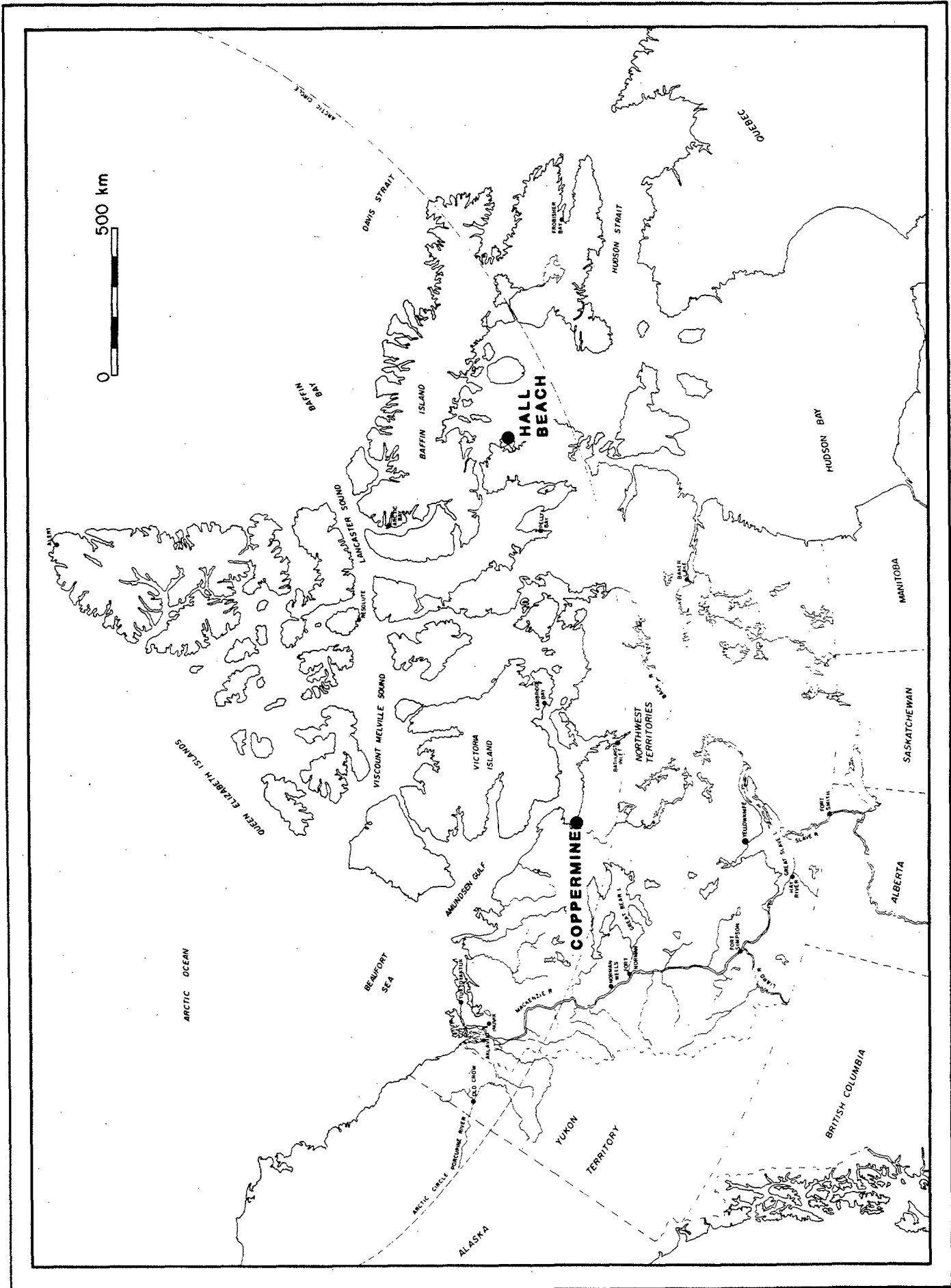


Fig. 2. Map of the Northwest Territories showing locations of commercial fishing sites at Coppermine and Hall Beach.

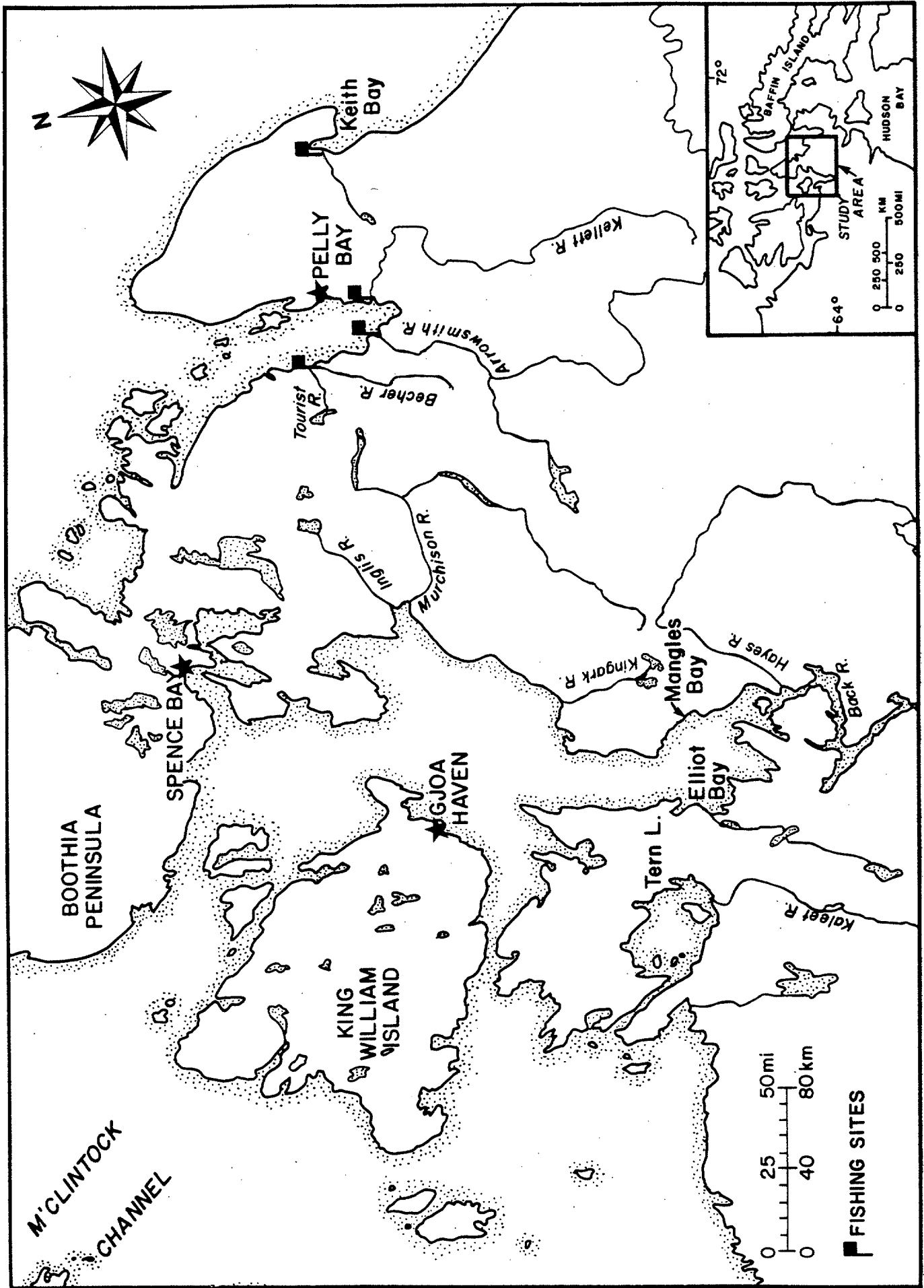


Fig. 3. Map of the Pelly Bay area showing locations of commercial fishing sites.

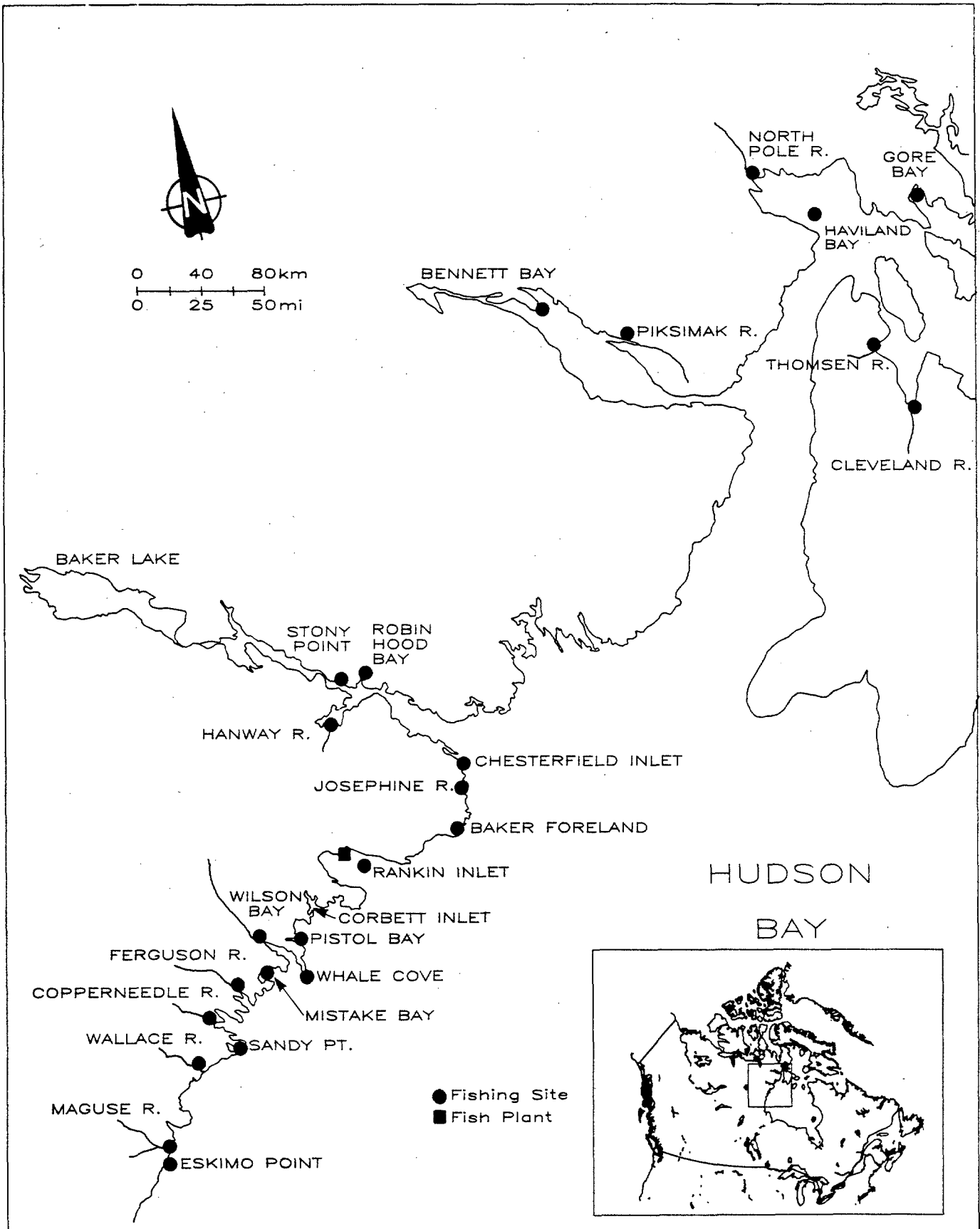


Fig. 4. Map of the Keewatin area showing locations of commercial fishing sites.

Table 1. Commercial water bodies sampled during 1985 and 1986.

Waterbody	1985 Samples	1986 Samples
<u>Cambridge Bay Fishery</u>		
Ekalluk R.	upstream only	upstream only
Halovik R.	downstream only	downstream only
Paliryuak R.	downstream and upstream	downstream only
Lauchlan R.	downstream only	downstream only
Ellice R.	upstream only	upstream only
Jayco R.	downstream only	upstream only
<u>Coppermine Fishery</u>		
Coppermine R.	no samples	upstream only
<u>Hall Beach Fishery</u>		
Hall Lake	no samples	upstream only
<u>Pelly Bay Fishery</u>		
Becher R.	after upstream migration (November)	no samples
Arrowsmith R.	no samples	upstream only
Kellett R.	after upstream migration (November)	no samples
Keith Bay	after upstream migration (November)	no samples
<u>Rankin Inlet</u>		
Baker Foreland	no samples	upstream only
Rankin Inlet	upstream only	upstream only
Corbett Inlet	no samples	upstream only
Pistol Bay	no samples	upstream only
Wilson Bay	no samples	upstream only
Maguse R.	no samples	upstream only

Table 2. Annual commercial quotas and production of anadromous Arctic charr by various fisheries in the Northwest Territories during 1985 and 1986.

	Quota (kg)		Production (kg)	
	1985 and 1986		1985	1986
<u>Cambridge Bay area¹</u>				
Ekalluk River	14 500		14 524 (11 619 dr) ²	14 349 (11 479 dr)
Halovik River (30 mile)	6 800		6 448 (5 158 dr)	6 830 (5 464 dr)
Paliryuak River (Surrey)	9 100		9 286 (7 429 dr)	9 123 (7 298 dr)
Lauchlan River (Byron Bay)	9 100		9 056 (7 245 dr)	8 243 (6 594 dr)
Ellice River	4 500		5 598 (4 478 dr)	4 180 (3 344 dr)
Jayco River	13 600		11 584 (9 267 dr)	12 076 (9 661 dr)
<u>Coppermine Area³</u>				
Coppermine River	600		600 (522 dr)	600 (522 dr)
<u>Hall Beach Area³</u>				
Hall Lake	3 600		3 359 (2 921 dr)	not available at time of pub.
<u>Pelly Bay Area³</u>				
Becher River	4 500 (1985) 2 000 (1986)		800 (696 dr)	227 (197 dr)
Arrowsmith River	1 000		-	160 (139 dr)
Kellett River	1 000		955 (830 dr)	1 000 (870 dr)
Keith Bay	4 500		573 (498 dr)	726 (631 dr)
<u>Keewatin Area³</u>				
North Pole River	2 300		-	-
Haviland Bay area	2 300		-	362 (315 dr)
Gore Bay area	3 600		436 (379 dr)	272 (237 dr)
Thomsen River area	2 300		-	453 (394 dr)
Piksimak River	2 300		-	-
Cleveland River	9 100		1 746 (1 518 dr)	650 (565 dr)
Bennett Bay	2 300		-	-

Table 2. Cont'd.

	Quota (kg)		Production (kg)	
	1985 and 1986		1985	1986
Brown River	6 800		620 (539 dr)	-
Chesterfield Inlet (Fish Bay)	<u>2 300</u>		4 188 (3 642 dr)	2 566 (2 331 dr)
Stony Point	6 800		625 (544 dr)	288 (250 dr)
Robin Hood Bay	6 800		133 (116 dr)	110 (96 dr)
Hanway River	2 300		-	-
Josephine River	4 500		5 270 (4 583 dr)	118 (103 dr)
Baker Foreland	2 300		1 075 (935 dr)	2 524 (2 195 dr)
Rankin Inlet	9 100		closed	closed
Corbett Inlet	4 500 (1985) 4 000 (1986)		4 628 (4 024 dr)	305 (265 dr)
Pistol Bay	2 300		2 076 (1 805 dr)	2 300 (2 000 dr)
Whale Cove area	2 300		3 149 (2 738 dr)	-
Wilson Bay	9 100		2 119 (1 843 dr)	4 554 (3 960 dr)
Mistake Bay	2 300		23 (20 dr)	186 (162 dr)
Ferguson River	13 600		6 084 (5 290 dr)	28 (24 dr)
Copperneedle River	4 500		169 (147 dr)	-
Sandy Point	900		294 (265 dr)	-
Wallace River	2 300		-	-
Maguse River	4 500		-	5 129 ⁴ (4 486 dr)
Eskimo Point area	4 500		1 876 (1 631 dr)	5 129 ⁴ (4 486 dr)
Churchill, Manitoba	500		521 (453 dr)	200 (174 dr)

¹ Round weight calculated using a dressed weight to round weight conversion factor of 1.25 (includes estimate of culls).

² Dressed weight (viscera and gills removed).

³ Round weight calculated using a dressed weight to round weight conversion factor of 1.15 (does not include estimate of culls).

⁴ Eskimo Point and Maguse River production is combined.

Table 3. Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
11	7	6	618	24	2529	293
12	13	10	623	34	2619	456
13	15	12	666	36	3293	580
14	27	22	676	46	3359	784
15	22	18	690	40	3450	604
16	16	13	698	41	3644	842
17	10	8	733	42	4130	629
18	9	7	755	48	4100	1081
19	1	1	817	-	6600	-
20	3	2	714	21	4033	236
21	1	1	815	-	4300	-
TOTAL	124					
MEAN			685	56	3446	861
MEAN AGE	14.7					

Table 4. Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
550	7	4	585	2243	221
600	45	23	627	2642	241
650	59	30	675	3203	334
700	57	29	721	3814	532
750	20	10	770	4703	522
800	9	5	818	5106	1073
TOTAL	197				
MEAN			690	3457	864

Table 5. Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
11	2	1	560	7	1700	141
12	18	12	652	34	2672	471
13	13	9	672	51	2946	623
14	33	22	683	41	3056	571
15	30	20	705	37	3295	567
16	26	17	708	49	3313	749
17	14	9	719	31	3279	538
18	4	3	779	49	3988	856
19	5	3	744	33	3990	641
20	1	1	789	-	3350	-
21	2	1	765	35	4075	247
22	1	1	775	-	3700	-
TOTAL	149					
MEAN			696	51	3172	682
MEAN AGE	14.9					

Table 6. Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
550	5	2	573	1690	74
600	23	11	632	2557	391
650	65	32	672	2849	308
700	74	37	723	3403	403
750	30	15	766	3815	572
800	5	2	825	4850	437
TOTAL	202				
MEAN			701	3183	663

Table 7. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	1	1	410	-	900	-
11	2	2	624	86	2475	1167
12	1	1	638	-	2700	-
13	16	15	702	38	3150	441
14	18	17	700	42	3342	678
15	24	22	720	44	3265	811
16	20	19	710	29	3438	392
17	13	12	760	35	3727	627
18	6	6	758	40	3833	613
19	5	5	742	76	3430	1101
20	2	2	820	34	4750	283
TOTAL	108					
MEAN			716	57	3373	734
MEAN AGE	15.2					

Table 8. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
400	1	1	410	900	-
550	2	1	561	1625	35
600	8	5	633	2381	407
650	38	22	680	3038	455
700	68	40	720	3426	443
750	42	25	773	3758	708
800	12	7	813	4146	470
TOTAL	171				
MEAN			723	3387	698

Table 9. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
12	2	2	664	11	2825	35
13	6	5	669	26	2917	270
14	8	6	702	21	3206	224
15	9	7	720	43	3083	638
16	26	21	738	38	3550	556
17	31	25	733	41	3456	551
18	26	21	742	48	3581	547
19	9	7	717	44	3167	536
20	4	3	784	19	4163	295
21	3	2	758	23	3417	76
TOTAL	124					
MEAN			730	44	3423	559
MEAN AGE	16.7					

Table 10. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
600	3	2	636	2567	153
650	38	21	681	2924	363
700	72	40	723	3290	349
750	52	29	775	3886	450
800	15	8	817	4353	301
TOTAL	180				
MEAN			736	3461	588

Table 11. Age composition of Arctic charr taken by the commercial fishery (downstream migration) at Paliryuak River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	1	1	470	-	900	-
9	1	1	563	-	1500	-
10	2	2	656	171	2425	1591
11	8	6	614	50	2388	703
12	6	5	623	51	2483	804
13	22	17	681	35	2955	669
14	21	16	680	46	2993	625
15	21	16	717	40	3345	724
16	19	15	741	41	3800	802
17	14	11	737	53	3743	776
18	8	6	759	38	3931	701
19	1	1	687	-	3200	-
20	2	2	736	34	3200	0
21	1	1	681	-	3900	-
22	1	1	803	-	5250	-
TOTAL	128					
MEAN			699	64	3236	887
MEAN AGE	14.7					

Table 12. Length composition of Arctic charr taken by the commercial fishery (downstream migration) at Paliryuak River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
400	1	1	428	700	-
450	1	1	470	900	-
500	3	2	530	1267	29
550	7	4	573	1757	278
600	14	7	635	2475	518
650	61	31	677	2975	316
700	60	31	723	3493	416
750	32	16	770	3894	604
800	15	8	812	4830	610
TOTAL	194				
MEAN			705	3302	860

Table 13. Age composition of Arctic charr taken by the commercial fishery (upstream migration) at Paliryuak River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
10	2	3	608	13	2450	141
11	8	11	601	18	2356	178
12	12	17	616	28	2542	332
13	13	18	665	36	3269	471
14	10	14	675	46	3090	625
15	8	11	680	39	3331	652
16	7	10	706	29	3579	446
17	6	8	733	46	4000	1040
18	2	3	730	85	3625	1450
19	2	3	758	70	4375	1025
21	1	1	740	-	4200	-
24	1	1	700	-	3050	-
TOTAL	72					
MEAN			667	57	3147	764
MEAN AGE	14.1					

Table 14. Length composition of Arctic charr taken by the commercial fishery (upstream migration) at Paliryuak River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
550	10	10	586	2235	226
600	30	31	629	2693	219
650	25	26	676	3134	356
700	23	24	719	3733	366
750	7	7	764	3943	896
800	2	2	804	5050	71
TOTAL	97				
MEAN			671	3145	698

Table 15. Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
12	9	8	667	25	2917	396
13	8	7	693	27	3225	433
14	24	21	706	49	3240	517
15	19	16	715	41	3505	589
16	24	21	728	49	3577	653
17	16	14	753	29	3659	593
18	8	7	766	32	3831	444
19	6	5	756	29	3883	828
23	2	2	786	1	3925	35
TOTAL	116					
MEAN			723	48	3471	609
MEAN AGE	15.5					

Table 16. Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
550	1	1	582	1750	-
600	5	3	631	2450	444
650	47	26	678	3019	291
700	71	39	727	3434	373
750	42	23	772	3907	456
800	11	6	812	4450	473
850	2	1	863	3850	1344
900	1	1	915	7300	-
TOTAL	180				
MEAN			729	3488	661

Table 17. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
11	3	2	649	14	2717	176
12	1	1	646	-	2500	-
13	16	12	677	43	3009	766
14	27	20	705	31	3176	580
15	28	20	727	47	3545	604
16	32	23	732	46	3444	695
17	19	14	758	53	3935	728
18	8	6	805	57	4194	921
19	2	1	771	37	4200	141
22	1	1	816	-	3850	-
TOTAL	137					
MEAN			726	55	3464	748
MEAN AGE	15.3					

Table 18. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
600	12	6	633	2367	280
650	41	21	680	3022	377
700	84	42	725	3321	525
750	36	18	778	4044	559
800	25	13	822	4452	505
TOTAL	198				
MEAN			732	3476	738

Table 19. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
12	2	2	634	58	2225	813
13	2	2	706	58	3250	424
14	9	8	713	29	3117	660
15	14	13	746	36	3643	514
16	23	21	754	40	3500	607
17	29	26	766	42	3609	554
18	22	20	780	29	3807	522
19	6	5	759	42	3608	554
20	3	3	746	57	3200	608
21	2	2	778	10	3350	141
TOTAL	112					
MEAN			755	44	3543	601
MEAN AGE	16.6					

Table 20. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
550	4	2	570	1563	103
650	16	9	683	2909	474
700	52	28	730	3192	334
750	83	45	774	3701	417
800	29	16	813	4198	513
850	1	1	861	4900	-
TOTAL	185				
MEAN			756	3528	641

Table 21. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
7	1	1	498	-	1600	-
8	14	11	579	23	2482	355
9	53	40	595	30	2728	445
10	25	19	614	42	2992	679
11	15	11	596	45	2773	736
12	11	8	646	41	3418	664
13	1	1	652	-	3400	-
14	4	3	682	35	3350	567
15	4	3	683	51	3925	925
16	2	2	711	90	4200	2121
17	1	1	588	-	2450	-
19	1	1	859	-	4850	-
TOTAL	132					
MEAN			610	51	2903	703
MEAN AGE	10.2					

Table 22. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
450	1	1	498	1600	-
500	4	2	530	2013	217
550	81	48	575	2423	228
600	49	29	621	3033	287
650	24	14	670	3756	475
700	8	5	718	4399	423
750	1	1	774	5700	-
850	1	1	859	4850	-
TOTAL	169				
MEAN			610	2902	716

Table 23. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	5	3	593	12	2410	182
9	27	18	627	35	2654	476
10	71	47	646	40	3059	681
11	25	16	642	41	2978	682
12	9	6	666	41	3217	883
13	6	4	642	27	2650	324
15	2	1	738	47	3425	530
16	5	3	755	62	4440	860
17	1	1	622	-	2950	-
18	1	1	783	-	4400	-
TOTAL	152					
MEAN			647	48	3004	722
MEAN AGE	10.5					

Table 24. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
550	28	15	585	2238	200
600	81	43	626	2697	302
650	50	27	671	3348	497
700	16	9	718	4091	594
750	11	6	767	4332	480
800	1	1	840	5600	-
TOTAL	187				
MEAN			649	3033	744

Table 25. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
12	5	4	619	25	2240	277
13	9	7	630	37	2461	331
14	25	20	664	48	2780	624
15	25	20	661	49	2762	615
16	28	23	674	32	3034	546
17	12	10	707	61	3267	839
18	14	11	712	27	3325	477
19	2	2	738	74	3175	177
21	1	1	760	-	2600	-
22	2	2	704	25	3050	424
TOTAL	123					
MEAN			674	50	2908	629
MEAN AGE	15.5					

Table 26. Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
500	2	1	526	1175	35
550	6	3	574	1683	151
600	45	22	632	2414	252
650	90	45	676	2961	326
700	44	22	721	3414	341
750	14	7	768	3571	580
TOTAL	201				
MEAN			678	2924	571

Table 27. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
14	4	3	617	26	2200	303
15	19	15	645	35	2613	441
16	34	27	675	39	2726	499
17	41	33	661	43	2634	483
18	14	11	669	29	2750	488
19	9	7	696	40	2844	565
20	2	2	709	83	3050	919
21	2	2	699	9	2975	318
TOTAL	125					
MEAN			665	42	2682	490
MEAN AGE	16.7					

Table 28. Length composition of Arctic charr taken by commercial fishery at Jayco River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
500	1	0	540	1400	-
550	10	5	585	1920	250
600	50	24	630	2224	238
650	98	47	671	2678	335
700	39	19	721	3222	334
750	9	4	766	3622	195
TOTAL	207				
MEAN			670	2669	521

Table 29. Age composition of Arctic charr taken by the commercial fishery at Coppermine River, 1986.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
7	7	570	29	2114	373	1.13	14	535	2050	1.34	0	1	535	2050	1.34	0	1	535	2050	1.34	0
8	7	570	29	2114	373	1.13	14	535	2050	1.34	0	1	535	2050	1.34	0	1	535	2050	1.34	0
9	27	604	28	2509	392	1.13	33	606	2339	1.24	44	16	572	2241	1.19	31	16	572	2241	1.19	31
10	22	620	53	2868	813	1.18	55	622	2590	1.16	30	47	605	2544	1.14	32	47	605	2544	1.14	32
11	5	638	68	2920	662	1.12	40	659	2861	1.18	39	40	620	2865	1.18	48	40	620	2865	1.18	48
12	3	697	30	3633	797	1.08	100	644	3383	1.16	100	8	646	3094	1.14	63	8	646	3094	1.14	63
13	1	679	-	2900	-	0.93	0	-	3175	1.18	50	5	676	3450	1.12	80	5	676	3450	1.12	80
14	1	822	-	4800	-	0.86	100	-	-	-	-	1	822	2900	0.93	0	1	822	2900	0.93	0
15	-	-	-	-	-	-	-	784	5067	1.04	100	3	784	4800	0.86	100	3	784	4800	0.86	100
TOTAL	66	617	54	2710	713	1.14	-	618	2823	1.18	-	56	617	2762	1.16	-	122	617	2762	1.16	-
MEAN	617	618	57	2710	713	1.14	-	618	2823	1.18	-	56	617	2762	1.16	-	122	617	2762	1.16	-
MEAN AGE	9.7	9.7	-	9.7	-	-	-	9.7	-	-	-	9.7	9.7	-	-	-	9.7	9.7	-	-	-

Table 30. Length composition of Arctic charr taken by the commercial fishery at Coppermine River, 1986.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED									
	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT				
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD	
500	4	523	1575	50	1.10	25	5	521	1910	1.35	0	9	522	1761	242	1.24	11	522	1761	1.24	11	
550	28	572	2152	224	1.15	14	19	581	2345	1.19	32	47	576	2230	240	1.16	21	47	576	2230	1.16	21
600	32	621	2730	274	1.14	53	35	619	2717	1.15	40	67	620	2723	268	1.14	46	67	620	2723	1.14	46
650	13	672	3415	474	1.12	69	8	666	3538	1.20	88	21	670	3462	430	1.15	76	21	670	3462	1.15	76
700	6	723	3700	1006	0.97	100	5	737	4250	1.06	100	11	729	3950	775	1.01	100	11	729	3950	1.01	100
800	2	816	4950	212	0.91	100	1	812	3650	0.68	100	3	815	4517	765	0.84	100	3	815	4517	0.84	100
850	-	-	-	-	-	-	1	871	6550	0.99	100	1	871	6550	-	0.99	100	1	871	6550	0.99	100
TOTAL	85	620	2711	754	1.12	-	74	622	2824	1.16	-	159	621	2763	757	1.14	-	85	621	2763	1.14	-
MEAN	620	622	2711	754	1.12	-	74	622	2824	1.16	-	159	621	2763	757	1.14	-	85	621	2763	1.14	-

Table 31. Age composition of Arctic charr taken by the commercial fishery at Hall Lake, 1986.

AGE (YR)	MALES					FEMALES					COMBINED										
	N	%	LENGTH(MM)		K	N	%	LENGTH(MM)		K	N	%	LENGTH(MM)		K						
			MEAN	SD				MEAN	SD				MEAN	SD		MEAN	SD				
12	1	3	500	-	1.45	2	4	570	14	2722	161	1.48	3	4	547	42	2419	536	1.47	67	
13	3	9	587	32	3100	524	4	9	543	46	2382	687	1.46	7	9	561	45	2689	689	1.49	57
14	5	16	554	57	2608	790	5	11	556	13	2404	477	1.39	10	13	555	39	2506	624	1.44	50
15	3	9	640	26	4120	364	4	9	610	80	3600	1284	1.52	7	9	623	61	3823	973	1.54	57
16	10	31	609	90	3776	1877	10	22	582	40	3039	772	1.51	21	27	596	67	3397	1411	1.53	50
17	5	16	632	61	4037	828	10	22	582	43	2926	697	1.47	16	20	602	53	3331	876	1.51	67
18	2	6	625	21	3516	482	5	11	602	57	2971	766	1.34	7	9	609	49	3127	708	1.37	71
19	2	6	675	35	4820	1684	1	2	640	-	4536	-	1.73	3	4	663	32	4725	1202	1.60	33
20	-	-	-	-	-	-	2	4	575	49	2552	241	1.36	2	3	575	49	2552	241	1.36	-
21	1	3	720	-	1.28	2	4	615	21	3459	240	1.49	3	4	650	62	3894	772	1.42	67	
TOTAL	32					45			582	46	2943	791	1.46	79		595	59	3233	1090	1.49	58
MEAN			610	72	3622	1345	1.53		582						595						
MEAN AGE	16.2							16.2							16.0						

Table 32. Length composition of Arctic charr taken by the commercial fishery at Hall Lake, 1986.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED										
	N	%	LENGTH(MM)		K	N	%	LENGTH(MM)		K	N	%	LENGTH(MM)		K						
			MEAN	SD				MEAN	SD				MEAN	SD		MEAN	SD				
450	1	3	490	1814	-	1.54	1	2	490	1701	-	1.45	2	2	490	1758	80	1.49	50		
500	5	13	518	2132	404	1.53	9	15	527	2129	258	1.46	14	14	524	2130	302	1.48	64		
550	10	26	561	2733	467	1.54	21	36	564	2608	389	1.45	31	31	563	2649	412	1.48	68		
600	9	24	620	3730	386	1.56	18	31	613	3320	486	1.44	28	28	615	3447	482	1.48	67		
650	6	16	658	4347	490	1.52	10	17	659	4071	662	1.42	17	17	658	4156	588	1.46	63		
700	7	18	713	5654	629	1.56	-	-	-	-	-	-	8	8	711	5627	588	1.57	-		
TOTAL	38					59			588	2985	794	1.44	100		599						
MEAN			611	3659	1292	1.55			588						599			3276	1073	1.48	61

Table 35. Age composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		ROUND WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	5	13	363	44	540	207
7	11	28	414	52	745	225
8	8	20	470	33	1238	346
9	3	8	478	39	1333	289
10	8	20	537	24	1938	283
11	1	3	584	-	2250	-
12	4	10	601	29	2550	289
TOTAL	40					
MEAN			471	82	1319	701
MEAN AGE	8.4					

Table 36. Length composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G)		K
				MEAN	SD	
300	4	9	333	375	50	1.02
350	3	7	377	633	115	1.18
400	10	22	418	830	106	1.14
450	8	17	470	1188	253	1.13
500	10	22	524	1630	403	1.13
550	7	15	566	2236	189	1.24
600	2	4	625	2700	283	1.10
650	2	4	671	3400	0	1.13
TOTAL	46					
MEAN			482	1421	799	1.14

Table 37. Length composition of Arctic charr taken by the commercial fishery at Kellett River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH (MM)	ROUND WEIGHT (G)	
				MEAN	SD
300	3	2	317	350	50
350	2	1	380	600	212
400	11	7	427	905	223
450	36	24	474	1197	248
500	39	26	519	1618	321
550	28	19	571	2116	277
600	15	10	615	2633	266
650	7	5	663	3336	390
700	7	5	716	4400	428
750	1	1	780	4700	-
TOTAL MEAN	149		532	1852	934

Table 40. Age composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	17	38	541	36	1685	335
9	16	36	575	33	1997	468
10	10	22	578	33	1945	305
11	1	2	584	-	1950	-
13	1	2	630	-	2500	-
TOTAL	45					
MEAN			564	38	1878	405
MEAN AGE	9.0					

Table 41. Length composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
450	6	11	481	1100	158
500	11	21	530	1527	152
550	25	47	570	1928	158
600	11	21	616	2350	341
TOTAL	53				
MEAN			561	1839	428

Table 46. Age composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1986

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	3	7	444	30	983	161
7	8	19	536	40	1725	431
8	13	30	568	28	2196	419
9	8	19	564	32	2025	254
10	11	26	613	43	2623	724
TOTAL	43					
MEAN			564	54	2101	640
MEAN AGE	8.4					

Table 47. Length composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
400	1	2	410	800	-
450	4	8	473	1200	178
500	11	21	529	1645	275
550	23	43	573	2170	198
600	12	23	622	2725	173
650	2	4	669	3725	884
TOTAL	53				
MEAN			568	2146	620

Table 48. Age composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	1	1	390	-	650	-
7	6	6	495	30	1317	277
8	32	31	546	32	1773	390
9	43	42	582	38	2198	535
10	16	16	604	45	2284	580
11	2	2	638	4	2675	247
14	1	1	760	-	4950	-
15	1	1	631	-	2650	-
TOTAL	102					
MEAN			570	53	2052	639
MEAN AGE	8.8					

Table 49. Length composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
350	1	1	390	650	-
450	7	6	485	1271	191
500	28	25	530	1555	201
550	45	40	572	2053	227
600	27	24	620	2583	388
650	2	2	678	2600	707
700	1	1	710	4150	-
750	1	1	760	4950	-
TOTAL	112				
MEAN			571	2050	616

Table 50. Age composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
7	11	6	528	65	1659	557
8	51	30	560	29	2057	368
9	69	40	584	36	2295	459
10	33	19	619	37	2698	590
11	5	3	636	50	2950	581
12	2	1	634	1	3025	177
13	1	1	709	-	3450	-
TOTAL	172					
MEAN			583	46	2295	562
MEAN AGE	8.9					

Table 51. Length composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1986.

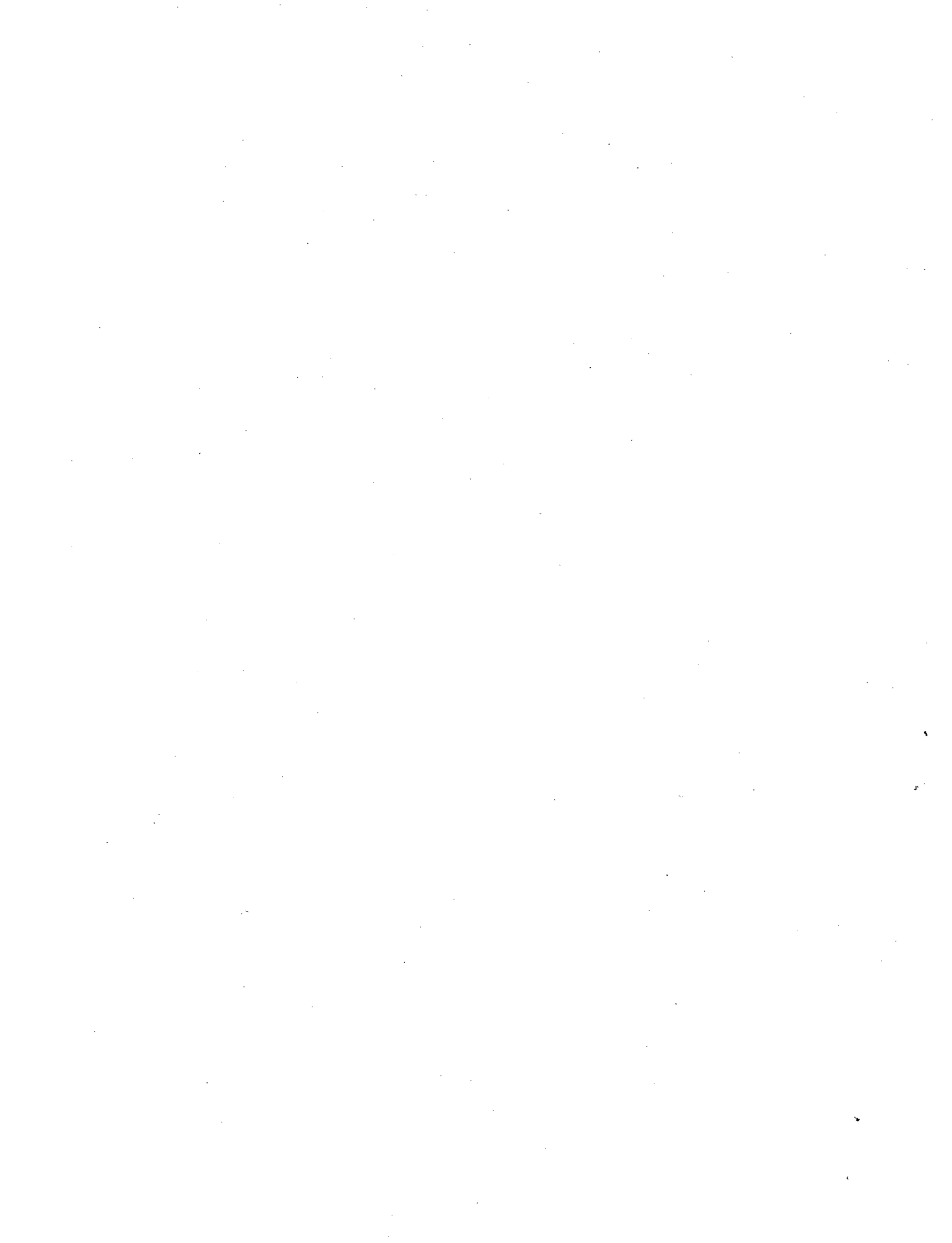
LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
350	1	0	384	550	-
400	3	1	413	733	29
450	4	2	481	1150	100
500	37	17	533	1785	184
550	100	47	573	2153	223
600	48	23	619	2650	268
650	16	8	665	3253	370
700	4	2	721	3863	539
TOTAL	213				
MEAN			582	2269	575

Table 52. Age composition of Arctic charr taken by the commercial fishery at Maguse River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
7	23	16	554	27	2113	403
8	55	39	586	25	2334	395
9	57	41	595	37	2417	549
10	2	1	668	91	3400	1697
11	3	2	622	57	2867	611
TOTAL	140					
MEAN			586	37	2358	516
MEAN AGE	8.3					

Table 53. Length composition of Arctic charr taken by the commercial fishery at Maguse River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G)	
				MEAN	SD
450	1	1	499	1500	-
500	20	11	532	1795	228
550	100	55	576	2199	288
600	45	25	617	2651	309
650	13	7	664	3315	391
700	2	1	720	3925	955
TOTAL	181				
MEAN			589	2362	508



Printed in Canada by
Supply and Services Canada
Printing Office
for exclusive distribution by
Fisheries and Oceans
Freshwater Institute
Winnipeg, Manitoba
Canada