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**DFO Atlantic Fisheries
Research Document 93/5**

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**MPO Document de recherche sur
les pêches dans l'Atlantique 93/5**

**Summary of catch statistics for the northern Labrador Arctic
charr and Atlantic salmon fisheries in 1992**

by

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¹La présente série documente les bases scientifiques des évaluations des ressources halieutiques sur la côte atlantique du Canada. Elle traite des problèmes courants selon les échéanciers dictés. Les documents qu'elle contient ne doivent pas être considérés comme des énoncés définitifs sur les sujets traités, mais plutôt comme des rapports d'étape sur les études en cours.

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Abstract

Catch and effort statistics for the northern Labrador Arctic charr fishery in 1992 are summarized. Total northern Labrador charr landings of about 74 t were the third lowest on record and were 43% below the previous 10-year mean of 129 t. Charr landings from the Nain fishing region totalled 61 t or 82% of the northern Labrador catch. Within the Nain fishing region, effort (unstandardized) was similar to 1991, and catch per unit effort increased by 9% over 1991. Landings of Arctic charr in the Nain assessment unit during 1992 represented 32% of the overall catch from the Nain fishing region, while the Voisey unit contributed 15%, and the charr landings at Hebron Fiord (21 t) contributed 36% of the Nain region catch. Atlantic salmon landings at Nain are summarized for the period 1977 to 1992. The salmon fishery in northern Labrador was again low totalling only 3 t. Severe ice conditions along the north Labrador coast again impacted on fishing operations.

Résumé

On présente un sommaire des statistiques sur les prises et l'effort de pêche de l'omble chevalier dans le nord du Labrador en 1992. Les débarquements totaux pour cette région, soit environ 74 t, se situent au troisième rang des plus bas enregistrés et sont inférieurs de 43 % à la moyenne des dix dernières années (129 t). Les débarquements d'omble chevalier provenant de la zone de pêche de Nain ont totalisé 61 t, ce qui représente 82 % des prises de tout le nord du Labrador. Dans la zone de Nain, l'effort (non normalisé) était comparable à celui de 1991 et les prises par unité d'effort ont augmenté de 9 % par rapport à l'année antérieure. En 1992, les débarquements d'omble chevalier de l'unité d'évaluation de la baie de Nain représentaient 32 % des prises totales de la zone de pêche de Nain, tandis que celles de l'unité d'évaluation de Voisey représentaient 15 % du total. Les débarquements d'omble chevalier provenant du fjord Hebron se chiffraient à 21 t et constituaient 36 % des prises de la zone de pêche de Nain. On présente également un sommaire des débarquements de saumon de l'Atlantique dans la zone de Nain de 1977 à 1992. La pêche du saumon dans le nord du Labrador s'est à nouveau soldée par des prises de 3 t seulement. L'abondance des glaces le long du nord du Labrador a une fois encore nui aux activités de pêche.

Introduction

Continuous records of commercial landings of anadromous Arctic charr (Salvelinus alpinus) from the northern Labrador coast are available since 1944. Catch statistics from the Nain and Makkovik Fishing Regions, and from subareas within the Nain Fishing Region (Fig. 1) exist since 1974. From 1977 to 1982 more than 200 t per year of Arctic charr were caught in northern Labrador but during the last five years (1987-91) annual landings have averaged only 102 t. The highest landings on record were 252 t in 1981, while the lowest during the past 30 years were 54 t in 1975. Much of the decline in landings in the Nain Fishing Region during the past seven years can be attributed to a reduction in fishing effort. However, recent assessments of the Voisey and Nain stock units have also indicated that current stock sizes are still below levels estimated for the late 1970's (Dempson 1991a, 1991b). Recent initiatives by the Labrador Inuit Association have explored the feasibility of developing in-river fisheries for Arctic charr in some of the northern fiord subareas.

This paper summarizes catch statistic information for the 1992 northern Labrador Arctic charr fishery and updates previous reports (summarized in Dempson and Shears 1991, 1992) which have examined landings in the commercial fishery. Atlantic salmon landings from the Nain fishery are also updated.

Methods

Information on the commercial landings of Arctic charr and Atlantic salmon from the Nain fishing region was obtained through purchase slips prepared by Fisheries Statistics and Systems Branch of the Department of Fisheries and Oceans and processed by Salmon and Charr Section of the Salmonid and Habitat Sciences Division. Information on landings from the Makkovik region were obtained directly from records provided by the Makkovik fish plant. Purchase slips from the Nain fishing region included the following information: name of the fisherperson, licence number, area where the fish were caught, date, weight of fish (by species) landed, and number of fish caught. Landed catches were converted to round weight (in kilograms) using the conversion factor: gutted head-on weight \times 1.22 = round weight (Dempson 1984). Catch per unit effort estimates in this document, expressed in terms of kilograms per person-week fished, follow the traditional values used in past reports and were derived from the method initiated by Coady and Best (1976).

Results and Discussion

Total northern Labrador Arctic charr landings

Figure 2 illustrates the commercial landings of Arctic charr from 1944 to 1992. Also shown are the landings from the Nain and Makkovik fishing regions since 1974. During the past 19 years, the Nain region has contributed about 84% of the total northern Labrador catch of Arctic charr averaging 127 t per year. Landings from both regions in 1992 totaled only 74 t, 6% more than in 1991 but 21% and 43% below the previous five (93 t, 1987-91) and ten year (129 t, 1982-91) means (Table 1). Individually, landings in the Nain fishing region of 61 t in 1992 were 11% higher than in 1991 but 24% and 44% below previous five (80 t, 1987-91) and ten year (108 t, 1982-91) means. The number of people fishing has been relatively consistent during the past few years and effort (unstandardized) in terms of person-weeks fished in 1992 was similar to 1991 and are among the lowest value recorded since 1974. It has declined by almost 60% from the 1981-85 average.

Undoubtedly, the extremely poor environmental conditions experienced in 1991 contributed to the decreased effort and general failure of the fishery. Conditions in 1992 were, for the most part, similar to 1991. A commercial fishery in the Hebron Fiord occurred again in 1992 with landings totaling 21 t and contributing 3% of the Nain region catch of Arctic charr. An experimental in-river fishery at Southwest Brook, Saglek Fiord, harvested 2.2 t of charr. This represented 28% of the total number of commercial sized charr (fish > 45 cm) that entered the river during the 18 days of the fishery (August 3-20), (Fig. 3) but only 4% of the entire run enumerated during that period (N = 31687).

Charr landings from the Makkovik region in 1992 decreased by 14% from the previous year and totaled 13 t. The highest landings in the Makkovik region of 39 t occurred in 1982. Concern has been expressed about the amount of small charr being caught at Makkovik, Postville, and Hopedale.

Catch and effort data - Nain fishing region assessment unit summary

Appendix 1 provides an updated summary of catch and effort statistics for all subareas within the Nain fishing region from 1974 to 1992 (experimental harvests are not included in the appendix - refer to Table 5). Some of these subareas form component parts of larger assessment or stock units. The Nain fishing region is composed of three primary assessment units (Voisey, Nain, and Okak) in addition to other subareas which are not, at present, component parts of larger assessment units or stock complexes. These primary assessment units have contributed an average of 80% of the commercial production of Arctic charr from the Nain fishing region over the period 1974-91.

Landings of Arctic charr in the Nain assessment unit during 1992 represented 32% of the overall catch from the Nain fishing region, while the Voisey unit contributed 15%. The Okak unit was essentially not fished in 1992.

Tables 2, 3, and 4 summarize catch and effort data for the Voisey, Nain, and Okak assessment units, respectively, from 1974 to 1992 while Figure 4 illustrates the trend in landings with respect to Total Allowable Catch (TAC). For the Voisey Unit, the highest catches occurred during the late 1970's (Fig. 4) as did the highest catch per unit of effort (CUE) (Fig. 5). Landings in 1992 were 9 t, a decrease of 15% from 1991. Effort also declined in 1992 resulting in an increased catch rate relative to the previous year (Table 2 & 6). Only 66% of the 14 t TAC for the Voisey unit was obtained in 1992.

Landings from the Nain assessment unit in 1992 totaled 20 t, 23% more than landings in 1991 but only 42% of the 47 t TAC (Table 3). Again, severe ice conditions contributed to this failure by preventing fisherpersons from accessing traditional fishing berths. The number of person-weeks fished in the Nain unit during 1992 decreased by 12% over that of 1991. CUE (unstandardized) increased over the previous year (Fig. 5) while standardized catch rates were comparable with 1991 (Fig. 5, Table 6).

Landings from the Okak assessment unit totaled 180 kg in 1992 the lowest ever recorded. There was virtually no effort directed to this unit in 1992.

A summary of harvests from specific experimental river harvests are provided in Table 5.

Standardized catch rates are summarized in Table 6. Catches have been standardized to 1977, week 31 (July 30 - Aug 5). Standardized and unstandardized catch rates are illustrated in Fig. 5.

Nain region - Atlantic salmon landings

Atlantic salmon landings specifically from the Nain fishing region in SFA 1 are presented for the period 1977 to 1992. Salmon caught in this area are, for the most part, not from 'local' rivers (Dempson and Shears 1991), that is rivers located within the Nain fishing region, although most of the salmon (> 74%) sampled between 1977-83 were characterized by river ages of 4 years or older (Reddin and Dempson 1986).

Appendix 2 summarizes the salmon landings by individual subareas within the Nain fishing region. Table 7 summarizes the salmon catches by assessment units. Landings have ranged from a high of 60 t in 1980 to a low of only 3 t in 1991 and 1992, the lowest values recorded (Fig. 6).

References

- Coady, L. W., and C. W. Best. 1976. Biological and management investigations of the Arctic char fishery at Nain, Labrador. Fish. Mar. Serv. Tech. rep. 624. 103 p.
- Dempson, J. B. 1984. Conversion factors for northern Labrador Arctic charr landings statistics. CAFSAC Res. Doc. 84/6. 8 p.
- Dempson, J. B. 1991a. Assessment of the Voisey stock unit Arctic charr population in 1990. CAFSAC Res. Doc. 91/28. 22 p.
- Dempson, J. B. 1991b. Assessment of the Nain stock unit Arctic charr population in 1990. CAFSAC Res. Doc. 91/29. 32 p.
- Dempson, J. B., and M. Shears. 1991. Summary of catch statistics by sub-area and assessment unit for the northern Labrador Arctic charr and Atlantic salmon fishery in 1990. CAFSAC Res. Doc. 91/30. 29 p.
- Dempson, J. B., and M. Shears. 1992. Summary of catch statistics by sub-area and assessment unit for the northern Labrador Arctic charr and Atlantic salmon fishery in 1990. CAFSAC Res. Doc. 92/3. 30 p.
- Reddin, D. G., and J. B. Dempson. 1986. Origin of Atlantic salmon (Salmo salar) caught at sea near Nain, Labrador. Naturaliste can. (Rev. Ecol. Syst.), 113: 211-218.

Table 1. Summary of northern Labrador Arctic charr landings (kg round) by fishing region, 1974-92.

| Year | Nain Fishing Region | | | | Makkovik Fishing Region | | | |
|--------------|---------------------|------------------|--------------------------|---------------------|-------------------------|------------------|--------------------------|-------------|
| | Catch | No. of Fishermen | Fathoms of gear licensed | Catch as % of total | Catch | No. of Fishermen | Fathoms of gear licensed | Total Catch |
| 1974 | 120414 | 66 | | 81 | 28133 | | | 148547 |
| 1975 | 44118 | 85 | | 82 | 9542 | | | 53660 |
| 1976 | 134898 | 101 | | 90 | 15645 | | | 150543 |
| 1977 | 186165 | 128 | | 88 | 24205 | | | 210370 |
| 1978 | 213915 | 131 | 21340 | 86 | 34387 | 149 | 29300 | 248302 |
| 1979 | 175263 | 142 | 21320 | 82 | 37693 | 110 | 21225 | 212956 |
| 1980 | 167991 | 128 | 23960 | 83 | 35561 | 154 | 30635 | 203552 |
| 1981 | 231221 | 122 | 21700 | 92 | 20733 | 154 | 30990 | 251954 |
| 1982 | 203012 | 118 | 23600 | 84 | 39163 | 141 | 28200 | 242175 |
| 1983 | 149732 | 119 | 24400 | 84 | 29100 | 148 | 29600 | 178832 |
| 1984 | 123045 | 115 | 23000 | 83 | 24792 | 147 | 29400 | 147837 |
| 1985 | 107120 | 95 | 19000 | 76 | 33945 | 132 | 26400 | 141065 |
| 1986 | 99963 | 79 | 15800 | 88 | 13888 | 109 | 21800 | 113851 |
| 1987 | 97379 | 72 | 14400 | 91 | 9965 | 130 | 26000 | 107344 |
| 1988 | 74010 | 63 | 12600 | 83 | 14819 | 120 | 24000 | 88829 |
| 1989 | 85970 | 72 | 14400 | 85 | 14808 | 126 | 25200 | 100778 |
| 1990 | 86292 | 67 | 13400 | 86 | 13509 | 103 | 20600 | 99801 |
| 1991 | 54614 | 65 | 13000 | 78 | 15137 | 96 | 19200 | 69751 |
| 1992 | 60754 | 62 | 12400 | 82 | 13044 | 96 | 19200 | 73798 |
| Avg. 1987-91 | 79653 | | | | 13648 | | | 93301 |
| Avg. 1982-91 | 108114 | | | | 20913 | | | 129026 |
| Avg. 1974-92 | 127151 | | | 84 | 22530 | | | 149681 |

For 1985, Makkovik Region, catch includes 6788 kg from spring fishery in Postville area.

Catch for Nain Fishing Region includes in-river harvest in 1989, 1991, and 1992, and the trap net fishery at Nachvak Fiord in 1986.

Table 2. Catch (kg-round) and effort (person-weeks) statistics for the Voisey assessment unit from 1974 to 1992. Quota area catch (QAC) refers to the landings from those subareas specifically under TAC regulation only, prior to the derivation of assessment units in 1985.

| Year | TAC | QAC | Catch | Effort | CUE | % Offshore | Unit as % of Nain Region Total |
|--------------|-------|-------|-------|--------|-----|------------|--------------------------------|
| 1974 | | | 29180 | | | 31 | 24 |
| 1975 | | | 3727 | | | 94 | 8 |
| 1976 | | | 14652 | 57 | 257 | 21 | 11 |
| 1977 | | | 24108 | 75 | 321 | 9 | 13 |
| 1978 | | | 36991 | 102 | 363 | 11 | 17 |
| 1979 | 22500 | 21880 | 40590 | 116 | 350 | 47 | 23 |
| 1980 | 22500 | 11557 | 19694 | 82 | 240 | 42 | 12 |
| 1981 | 16100 | 16325 | 23810 | 90 | 265 | 33 | 10 |
| 1982 | | 2688 | 13309 | 60 | 222 | 45 | 7 |
| 1983 | 16100 | 2953 | 25593 | 80 | 320 | 89 | 17 |
| 1984 | 16100 | 8133 | 20873 | 101 | 207 | 62 | 17 |
| 1985 | 23400 | | 15648 | 57 | 275 | 91 | 15 |
| 1986 | 23400 | | 16655 | 82 | 203 | 82 | 17 |
| 1987 | 17000 | | 21242 | 101 | 210 | 41 | 22 |
| 1988 | 17000 | | 14037 | 52 | 270 | 60 | 19 |
| 1989 | 17000 | | 11019 | 32 | 344 | 100 | 13 |
| 1990 | 17000 | | 19895 | 69 | 288 | 64 | 23 |
| 1991 | 17000 | | 10971 | 60 | 183 | 26 | 20 |
| 1992 | 14000 | | 9284 | 39 | 238 | 96 | 15 |
| Avg. 1987-91 | | | 15433 | | | | |
| Avg. 1982-91 | | | 16924 | | | | |
| Avg. | | | 19541 | | | | |

TAC applied only to Voisey Bay subarea from 1979 to 1984.

Table 3. Catch (kg) and effort (person-weeks) statistics for the Nain assessment unit from 1974 to 1992. Quota area catch (QAC) refers to the landings from those subareas specifically under TAC regulation only, prior to the derivation of assessment units in 1986.

| Year | TAC | QAC | Catch | Effort | CUE | % Offshore | Unit as % of Nain Region Total |
|--------------|-------|-------|-------|--------|-----|------------|--------------------------------|
| 1974 | | | 37745 | | | 18 | 31 |
| 1975 | | | 33830 | | | 8 | 77 |
| 1976 | | | 53313 | 196 | 272 | 5 | 40 |
| 1977 | | | 76255 | 291 | 262 | 7 | 41 |
| 1978 | | | 73763 | 314 | 235 | 4 | 34 |
| 1979 | 61000 | 52832 | 66844 | 336 | 199 | 18 | 38 |
| 1980 | 61000 | 50176 | 75055 | 390 | 192 | 30 | 45 |
| 1981 | 37160 | 37223 | 65632 | 278 | 236 | 24 | 28 |
| 1982 | 43600 | 39119 | 55617 | 235 | 237 | 22 | 27 |
| 1983 | 51000 | 19102 | 51202 | 289 | 177 | 34 | 34 |
| 1984 | 43200 | 29063 | 38900 | 244 | 159 | 37 | 32 |
| 1985 | 30500 | 36019 | 41158 | 252 | 163 | 48 | 38 |
| 1986 | 43000 | | 37095 | 185 | 201 | 56 | 37 |
| 1987 | 47000 | | 45872 | 200 | 229 | 61 | 47 |
| 1988 | 47000 | | 38295 | 229 | 167 | 62 | 52 |
| 1989 | 47000 | | 51465 | 183 | 281 | 41 | 61 |
| 1990 | 47000 | | 45275 | 188 | 241 | 62 | 52 |
| 1991 | 47000 | | 15892 | 149 | 107 | 10 | 29 |
| 1992 | 47000 | | 19555 | 131 | 149 | 46 | 32 |
| Avg. 1987-91 | | | 39360 | | | | |
| Avg. 1982-91 | | | 42077 | | | | |
| Avg. | | | 48566 | | | | |

TAC applied only to Anaktalik Bay and Tikkoatokak Bay from 1979 to 1983 (1983 also includes 5 t for Nain Bay) but includes an offshore component from 1984 to 1985.

Table 4. Catch (kg) and effort (person-weeks) statistics for the Okak assessment unit from 1974 to 1992. Quota area catch (QAC) refers to the landings from those subareas specifically under TAC regulation only, prior to the derivation of assessment units in 1986.

| Year | TAC | QAC | Catch | Effort | CUE | % Offshore | Unit as % of Nain Region Total |
|--------------|-------|-------|-------|--------|-----|------------|--------------------------------|
| 1974 | | | 46891 | | | 27 | 39 |
| 1975 | | | 5057 | | | 53 | 11 |
| 1976 | | | 25338 | 148 | 171 | 30 | 19 |
| 1977 | | | 42392 | 243 | 174 | 37 | 23 |
| 1978 | | | 76024 | 352 | 216 | 54 | 36 |
| 1979 | | | 43261 | 283 | 153 | 41 | 25 |
| 1980 | | | 49035 | 253 | 194 | 66 | 29 |
| 1981 | 27300 | 11049 | 47541 | 202 | 235 | 78 | 21 |
| 1982 | 27300 | 9031 | 34171 | 186 | 184 | 75 | 17 |
| 1983 | 21000 | 30732 | 48978 | 286 | 171 | 39 | 33 |
| 1984 | 27000 | 13864 | 18146 | 94 | 193 | 25 | 15 |
| 1985 | 27000 | 24746 | 33261 | 208 | 160 | 26 | 31 |
| 1986 | 42000 | | 28896 | 172 | 168 | 30 | 29 |
| 1987 | 43000 | | 19649 | 134 | 147 | 20 | 20 |
| 1988 | 31000 | | 17450 | 136 | 128 | 28 | 24 |
| 1989 | 31000 | | 16563 | 163 | 102 | 10 | 20 |
| 1990 | 31000 | | 16125 | 100 | 161 | 22 | 19 |
| 1991 | 31000 | | 4432 | 31 | 143 | 7 | 8 |
| 1992 | 31000 | | 180 | 13 | 14 | 100 | <1 |
| Avg. 1987-91 | | | 14844 | | | | |
| Avg. 1982-91 | | | 23767 | | | | |
| Avg. | | | 30178 | | | | |

Table 5. Summary of Arctic charr landings (kg-round) from various experimental fisheries in northern Labrador.

| Year | Area | Type of Fishery | | |
|------|-----------------|-----------------|-------------------|------------------|
| | | Trap-net | River gill net | In-river trap |
| 1986 | Nachvak Fiord | 1777 | | |
| 1989 | Voisey Bay | | 169 | |
| | Nain Bay | | 345 | |
| | Tikkoatokak Bay | | 473 | |
| | Webb Bay | | 146 | |
| 1991 | Saglek Fiord | | | 159 |
| 1992 | Saglek Fiord | | | 2201 |

* Note these catches are included in the overall summary in Table 1.

Table 6. Standardized catch rates (C/E, kg/person-week fished) with standard error (SE) for the Voisey, Nain, and Okak stock units, 1977-92.

| Year | Voisey Unit | | Nain Unit | | Okak Unit | |
|------|-------------|----|-----------|-----|-----------|----|
| | C/E | SE | C/E | SE | C/E | SE |
| 1977 | 317 | 53 | 288 | 60 | 421 | 81 |
| 1978 | 388 | 63 | 259 | 57 | 415 | 89 |
| 1979 | 407 | 66 | 408 | 89 | 319 | 59 |
| 1980 | 313 | 53 | 440 | 84 | 416 | 79 |
| 1981 | 311 | 49 | 475 | 93 | 463 | 91 |
| 1982 | 215 | 35 | 531 | 102 | 464 | 96 |
| 1983 | 457 | 80 | 417 | 79 | 393 | 72 |
| 1984 | 278 | 44 | 416 | 79 | 389 | 83 |
| 1985 | 353 | 57 | 482 | 90 | 232 | 46 |
| 1986 | 259 | 41 | 363 | 70 | 292 | 57 |
| 1987 | 272 | 53 | 494 | 92 | 210 | 41 |
| 1988 | 309 | 49 | 326 | 60 | 183 | 35 |
| 1989 | 383 | 71 | 461 | 88 | 138 | 27 |
| 1990 | 346 | 61 | 397 | 75 | 318 | 67 |
| 1991 | 199 | 32 | 281 | 56 | 139 | 35 |
| 1992 | 321 | 63 | 274 | 57 | | |

Table 7. Commercial Arctic charr and Atlantic salmon landings by stock unit, 1977-92 for the Nain Region of northern Labrador. Total also includes landings from subareas other than those within stock units. Total includes harvest from various experimental fisheries, but these are not included in individual stock unit summaries.

| Year | Voisey Unit | | Nain Unit | | Okak Unit | | Total | |
|------|-------------|--------|-----------|--------|-----------|--------|--------|--------|
| | Charr | Salmon | Charr | Salmon | Charr | Salmon | Charr | Salmon |
| 1977 | 24108 | 209 | 76255 | 14943 | 42392 | 18468 | 186165 | 41581 |
| 1978 | 36991 | 462 | 73763 | 15216 | 76024 | 22177 | 213915 | 48945 |
| 1979 | 40590 | 327 | 66844 | 12658 | 43261 | 13126 | 175263 | 35722 |
| 1980 | 19694 | 120 | 75055 | 21134 | 49035 | 30050 | 167991 | 60332 |
| 1981 | 23810 | 104 | 65632 | 16665 | 47541 | 23121 | 231221 | 48124 |
| 1982 | 13309 | 139 | 55617 | 11737 | 34171 | 15383 | 203012 | 32974 |
| 1983 | 25593 | 701 | 51202 | 7480 | 48978 | 7589 | 149732 | 20105 |
| 1984 | 20873 | 193 | 38900 | 3177 | 18146 | 7166 | 123045 | 15596 |
| 1985 | 15648 | 333 | 41158 | 3819 | 33261 | 9210 | 107120 | 14653 |
| 1986 | 16655 | 109 | 37095 | 5371 | 28896 | 12828 | 99963 | 20090 |
| 1987 | 21242 | 191 | 45872 | 2979 | 19649 | 10770 | 97379 | 14414 |
| 1988 | 14037 | 157 | 38295 | 4813 | 17450 | 14607 | 74010 | 20090 |
| 1989 | 11019 | 146 | 51465 | 6034 | 16563 | 20855 | 85970 | 29960 |
| 1990 | 19895 | 111 | 45275 | 4035 | 16125 | 8492 | 86292 | 12892 |
| 1991 | 10971 | 19 | 15892 | 878 | 4432 | 1590 | 54614 | 2688 |
| 1992 | 9284 | 23 | 19555 | 687 | 180 | 1770 | 60754 | 2671 |

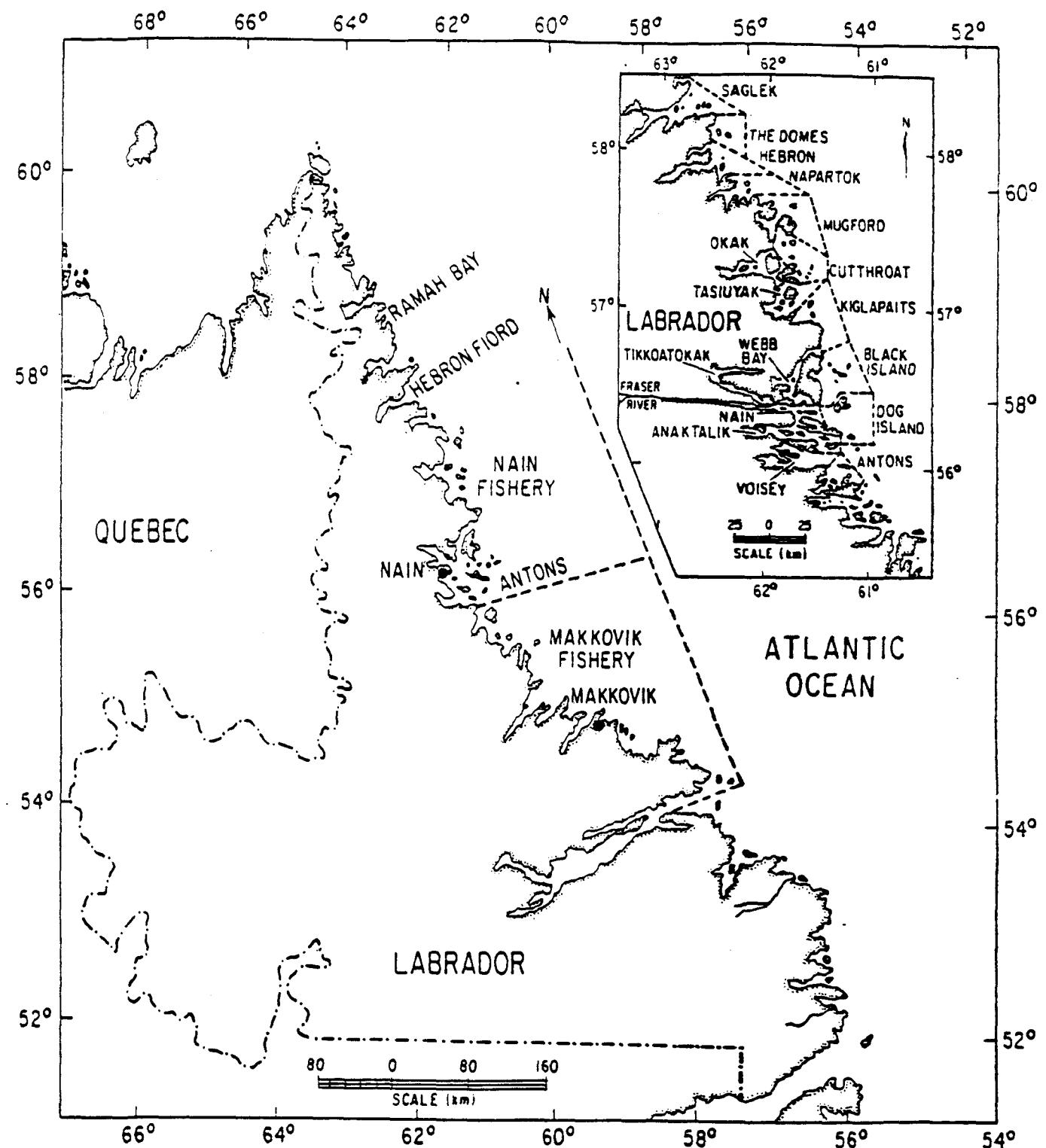


Fig. 1. Location of the Nain and Makkovik Fishing Regions in northern Labrador. Insert illustrates the location of subareas within the Nain Fishing Region.

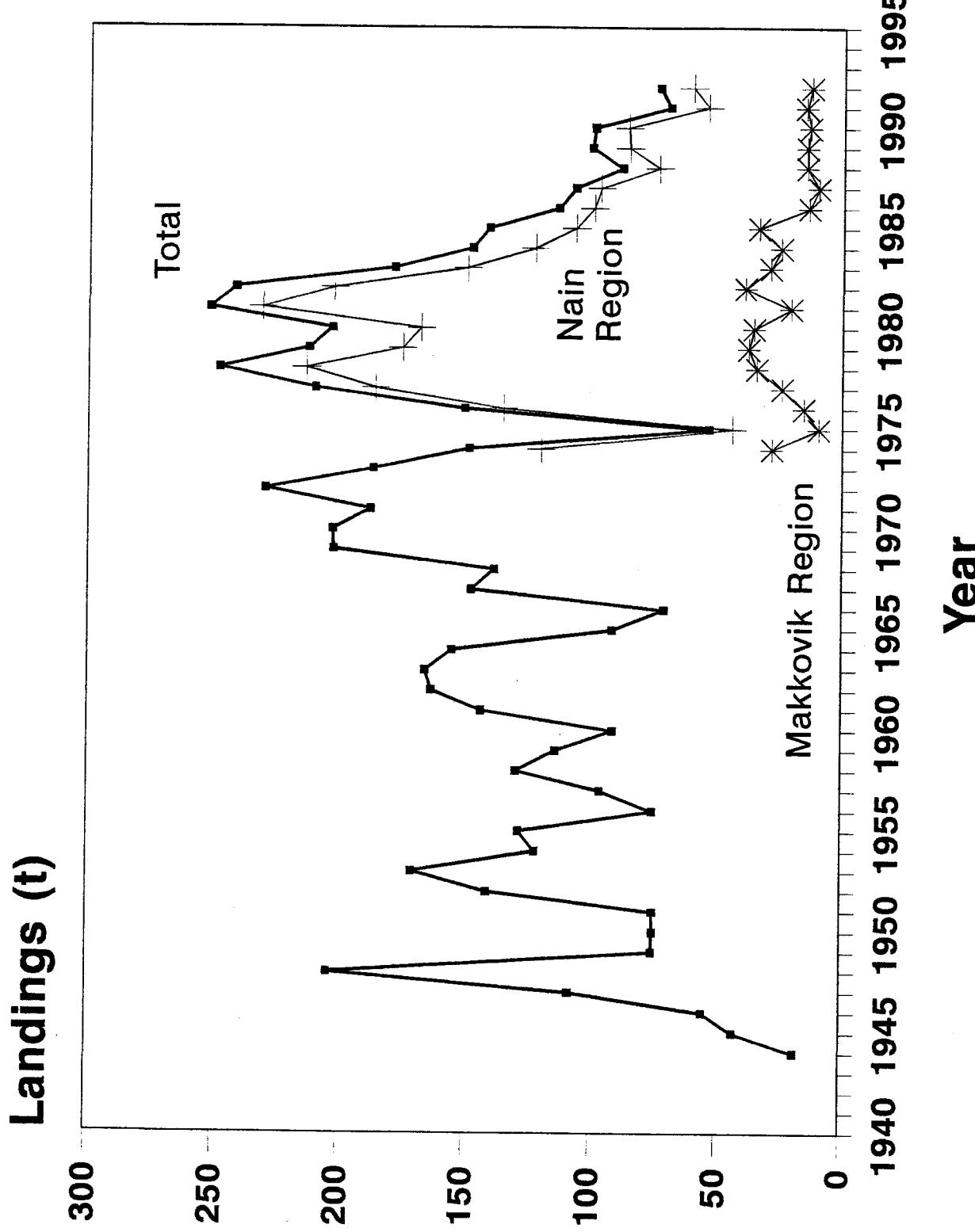


Fig. 2. Summary of northern Labrador Arctic charr landings (tonnes), 1944-92.

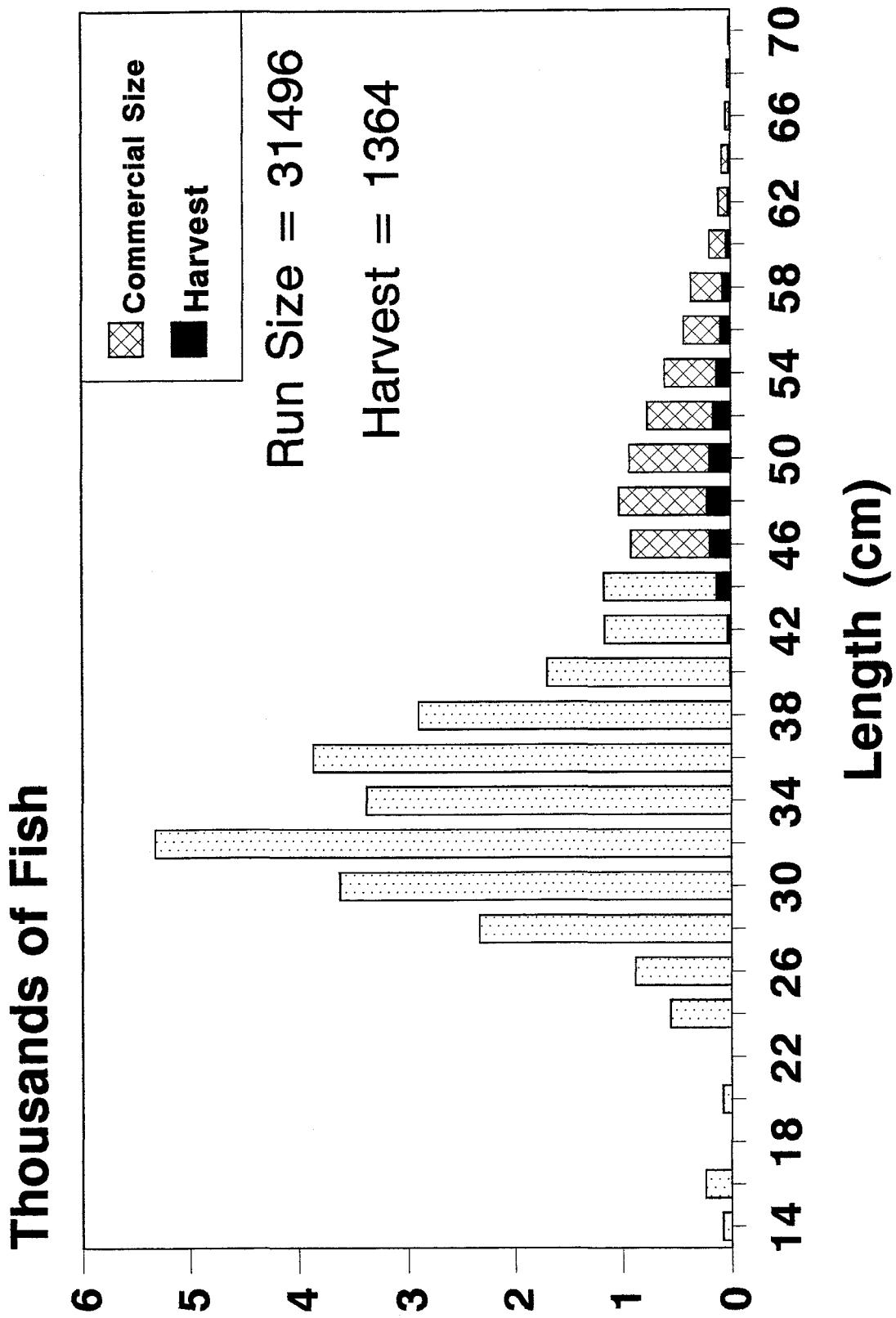


Fig. 3. Length frequency distribution of Arctic charr caught in the experimental in-river fishery at Southwest Arm Brook, Saglek Fiord, 1992. The commercial size component and those fish retained for harvest are indicated.

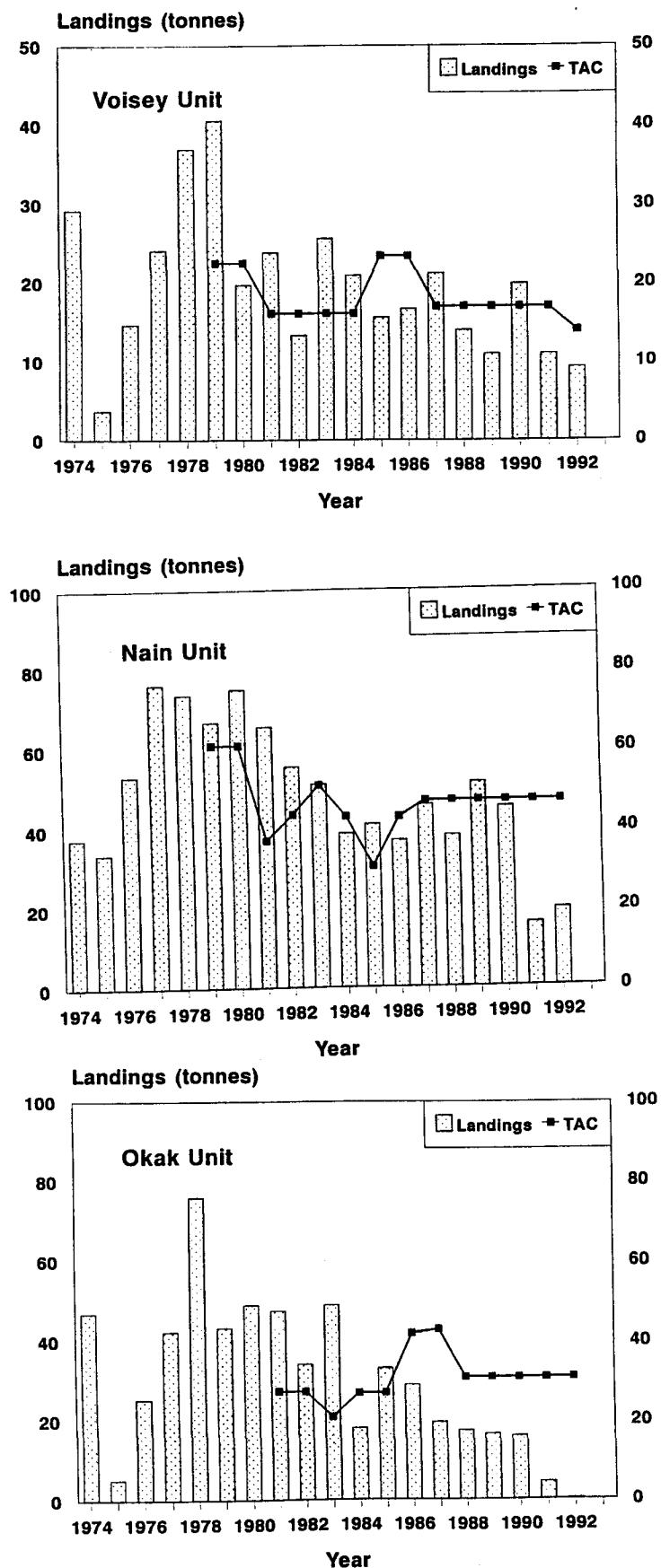


Fig. 4. Summary of total landings with respect to total allowable catch for the Voisey, Nain and Okak stock units.

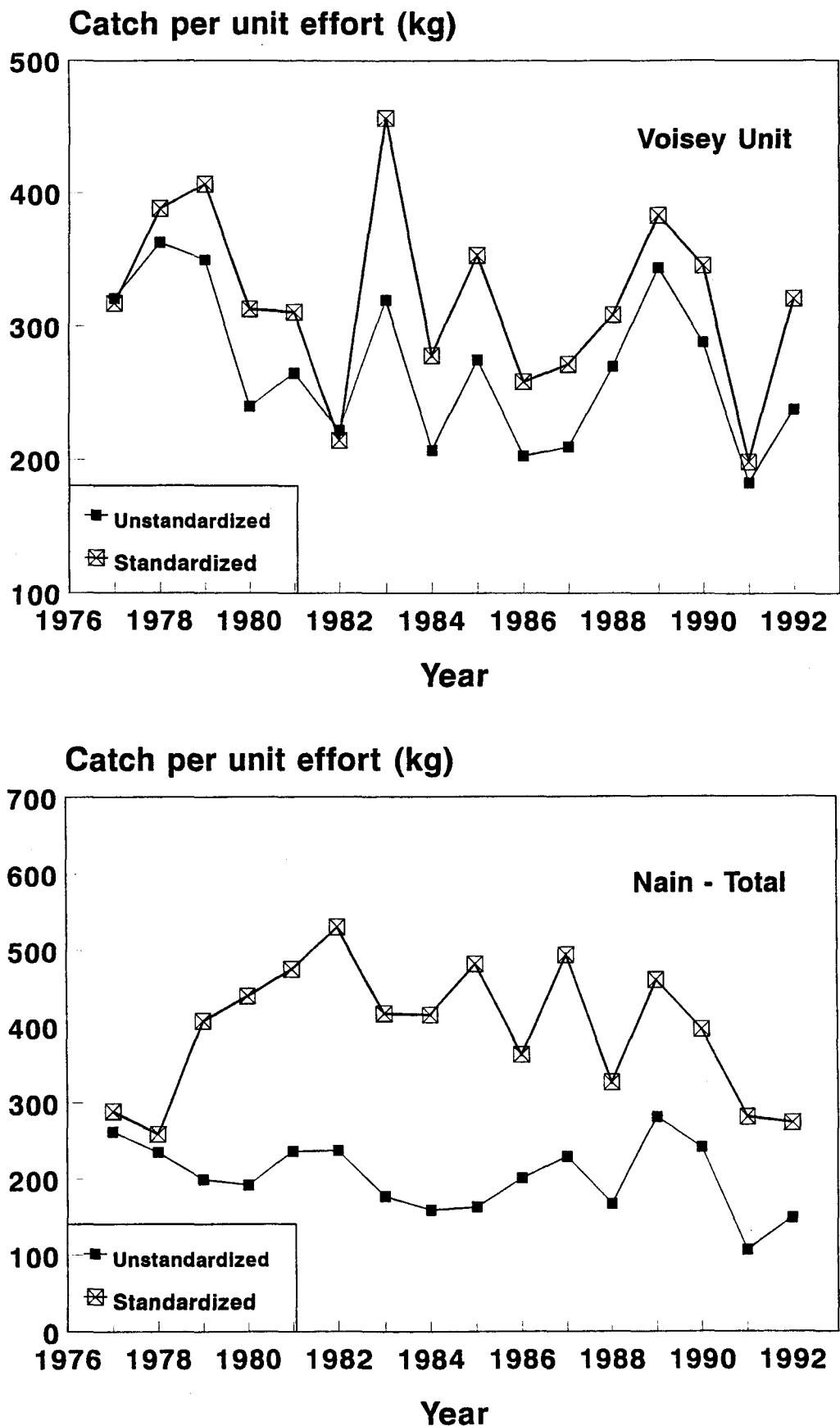


Fig. 5. Comparison of unstandardized and standardized commercial catch rates for the Voisey, Nain, and Okak stock units.

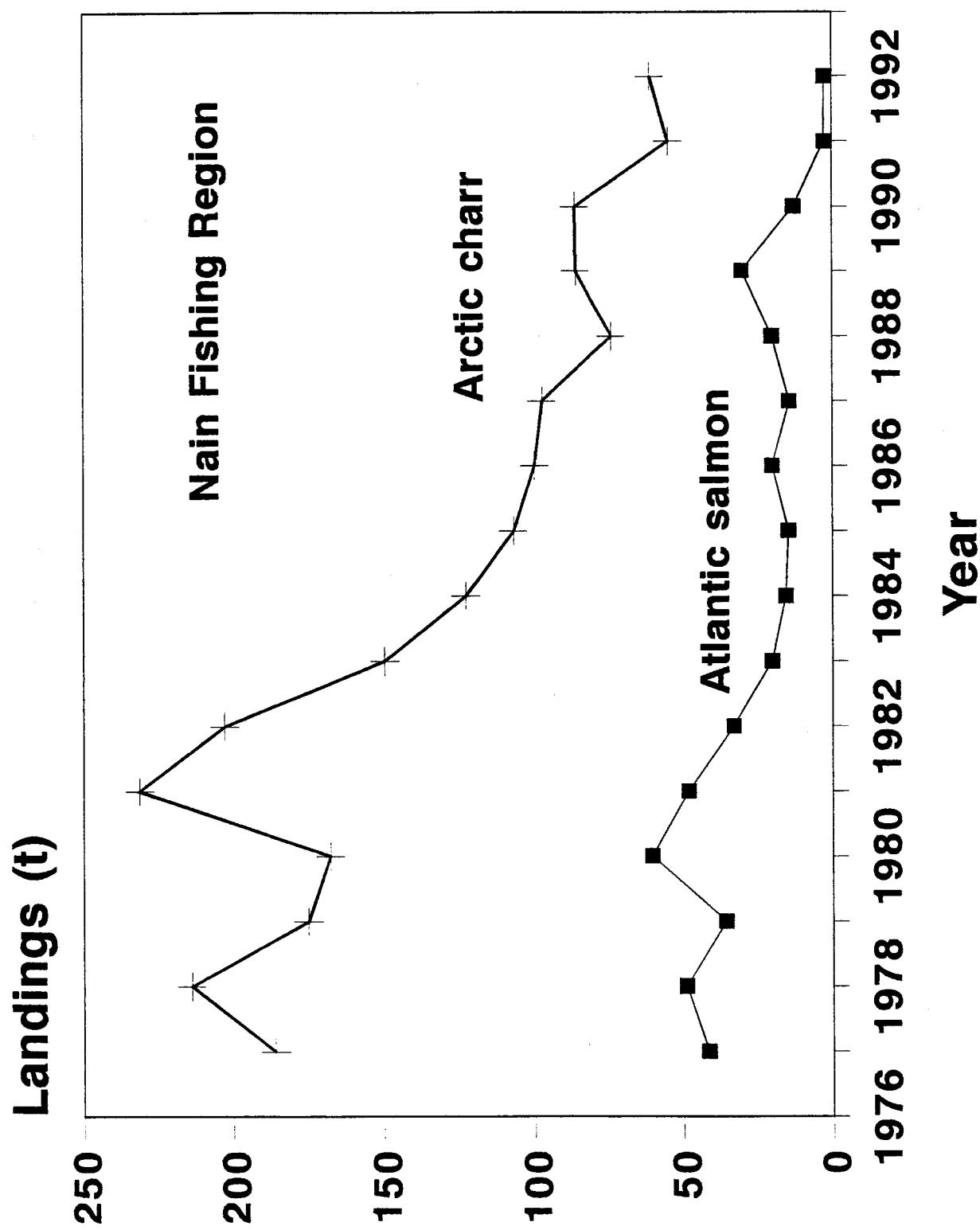


Fig. 6. Summary of Nain region Arctic charr and Atlantic salmon landings (tonnes), 1977-92.

**APPENDIX 1. ARCTIC CHARR CATCH STATISTICS, 1974-1992.
SUMMARY OF CATCH AND EFFORT DATA FOR THE NAIN FISHING REGION**

| AREA=ANTONIS | | | | | | |
|---------------------|-------|-------|-------|------|------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
| QUOTAS | | | | | | |
| CATCH (KG) | 9135 | 3489 | 3172 | 2111 | 4011 | 19371 |
| EFFORT (PERSON-WKS) | 34 | 20 | 6 | 17 | 63 | 32 |
| C/E (%) | 269 | 174 | 529 | 106 | 236 | 307 |
| % > 2.3 KG | | | 21 | 24 | 28 | 22 |
| | | | | | | |
| 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| QUOTAS | | | | | | |
| CATCH (KG) | 13099 | 14212 | 13589 | 8611 | 8460 | 11019 |
| EFFORT (PERSON-WKS) | 82 | 51 | 67 | 55 | 29 | 32 |
| C/E (%) | 160 | 279 | 203 | 157 | 292 | 344 |
| % > 2.3 KG | 7 | | | | | |

| AREA=VOISNEY BAY | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
| QUOTAS | | | | | | | |
| CATCH (KG) | 20045 | 238 | 12232 | 22488 | 33597 | 22500 | 22500 |
| EFFORT (PERSON-WKS) | 64 | 2 | 45 | 56 | 85 | 59 | 52 |
| C/E (KG) | 313 | 11.9 | 272 | 402 | 395 | 371 | 222 |
| % > 2.3 KG | | | 42 | 35 | 34 | 32 | 17 |
| | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| QUOTAS | 16000 | 23400 | 3065 | 12630 | 5577 | 7236 | 8158 |
| CATCH (KG) | 8113 | 1435 | 24 | 22 | 54 | 24 | 43 |
| EFFORT (PERSON-WKS) | 24 | 6 | 239 | 139 | 234 | 301 | 36 |
| C/E (KG) | 338 | 23.9 | | | | 190 | 246 |
| % > 2.3 KG | 16 | | | | | 17 | 17 |

APPENDIX 1, ARCTIC CHARR CATCH STATISTICS, 1974-1992.
SUMMARY OF CATCH AND EFFORT DATA FOR THE NAIN FISHING REGION

| AREA=DOG ISLAND | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 2659 | 653 | 212 | 2039 | 386 | 1440 | 3048 | 1516 | 1105 | 6858 |
| EFFORT (PERSON-WKS) | 38 | 40 | 11 | 49 | 25 | 61 | 86 | 37 | 38 | 62 |
| C/E (KG) | 70 | 16 | 19 | 42 | 15 | 24 | 35 | 41 | 29 | 111 |
| % > 2.3 KG | | | 11 | 9 | 8 | 15 | 11 | 14 | 7 | 8 |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 6666 | 6882 | 3289 | 16881 | 11735 | 2794 | 7219 | 1240 | 2134 | |
| EFFORT (PERSON-WKS) | 66 | 62 | 32 | 86 | 88 | 27 | 44 | 14 | 16 | |
| C/E (KG) | 101 | 111 | 103 | 196 | 133 | 103 | 164 | 89 | 133 | |
| % > 2.3 KG | | | | | | | | | | |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 12461 | | 3119 | 8464 | | | | | | 5000 |
| EFFORT (PERSON-WKS) | 37 | | 10 | 28 | | | | | | 532 |
| C/E (KG) | 337 | | 312 | 302 | | | | | | 8 |
| % > 2.3 KG | | | 16 | 15 | | | | | | 67 |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 1886 | 2667 | 6437 | 3806 | 5179 | 2074 | 10265 | 4039 | 4762 | |
| EFFORT (PERSON-WKS) | 15 | 32 | 39 | 15 | 33 | 61 | 61 | 59 | 45 | |
| C/E (KG) | 126 | 83 | 165 | 254 | 157 | 340 | 168 | 68 | 106 | |
| % > 2.3 KG | | | | | | | | | | |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 9960 | 27695 | 31568 | 39483 | 5061 | 39500 | 39500 | 28500 | 35000 | 35000 |
| EFFORT (PERSON-WKS) | 28 | 76 | 81 | 94 | 147 | 37919 | 42131 | 28066 | 28283 | 16211 |
| C/E (KG) | 356 | 364 | 390 | 420 | 374 | 351 | 324 | 30 | 75 | 65 |
| % > 2.3 KG | | | 19 | 20 | 18 | 14 | 10 | 5 | 377 | 249 |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 26000 | 12500 | | 16000 | | | | | | 16000 |
| EFFORT (PERSON-WKS) | 8618 | 6243 | 3841 | 3608 | 2240 | 2636 | 1491 | 2296 | 2560 | |
| C/E (KG) | 43 | 24 | 16 | 12 | 12 | 13 | 12 | 16 | 9 | |
| % > 2.3 KG | | | 260 | 240 | 301 | 187 | 203 | 124 | 143 | 284 |

APPENDIX 1. ARCTIC CHARR CATCH STATISTICS, 1974-1983.
SUMMARY OF CATCH AND EFFORT DATA FOR THE NAIN FISHING REGION

| AREA=WEBB BAY | | | | | | | | | | |
|---------------------|-------|------|------|------|------|------|------|------|------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 580 | 833 | 4550 | 2516 | 3472 | 3035 | 3008 | 8100 | 4607 | 15055 |
| EFFORT (PERSON-WKS) | 1 | 5 | 15 | 21 | 16 | 9 | 8 | 29 | 27 | 56 |
| C/E (KG) | 580 | 167 | 303 | 120 | 217 | 337 | 376 | 279 | 171 | 269 |
| % > 2.3 KG | | | 21 | 19 | 20 | 39 | 39 | 27 | 11 | 5 |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | | | | | | | | | | |
| EFFORT (PERSON-WKS) | 10476 | 5143 | 5890 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 |
| C/E (KG) | 43 | 35 | 34 | 8424 | 6041 | 5904 | 4859 | 2343 | 3111 | 3111 |
| % > 2.3 KG | 244 | 147 | 173 | 27 | 33 | 17 | 10 | 10 | 16 | 16 |
| | 7 | | | 312 | 183 | 347 | 486 | 234 | 194 | 194 |

| AREA=BLACK ISLAND | | | | | | | | | | |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 4264 | 2101 | 2725 | 3389 | 2966 | 10632 | 20051 | 14413 | 11602 | 11028 |
| EFFORT (PERSON-WKS) | 60 | 62 | 48 | 65 | 81 | 92 | 130 | 94 | 79 | 87 |
| C/E (KG) | 70 | 34 | 57 | 52 | 37 | 116 | 154 | 153 | 147 | 127 |
| % > 2.3 KG | | | 8 | 10 | 14 | 7 | 6 | 7 | 8 | 4 |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 7913 | 12750 | 17458 | 11151 | 12024 | 18222 | 20987 | 4490 | 6917 | 6917 |
| EFFORT (PERSON-WKS) | 62 | 68 | 72 | 50 | 61 | 60 | 65 | 37 | 44 | 44 |
| C/E (KG) | 128 | 188 | 242 | 223 | 197 | 304 | 323 | 121 | 157 | 157 |
| % > 2.3 KG | 5 | | | | | | | | | |

| AREA=KIGLAPARTS | | | | | | | | | | |
|---------------------|-------|------|------|------|-------|-------|------|-------|------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 5131 | 1504 | 6089 | 5435 | 12097 | 17606 | 1653 | 21911 | 8326 | 20625 |
| EFFORT (PERSON-WKS) | 26 | 32 | 59 | 57 | 103 | 120 | 95 | 99 | 34 | 103 |
| C/E (KG) | 197 | 47 | 103 | 95 | 117 | 147 | 174 | 221 | 245 | 200 |
| % > 2.3 KG | | | 25 | 25 | 34 | 14 | 18 | 12 | 16 | 12 |
| 1984 | | | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 11431 | 6184 | 6983 | 1620 | 862 | 2605 | 1051 | 1110 | 653 | 653 |
| EFFORT (PERSON-WKS) | 55 | 41 | 55 | 14 | 9 | 22 | 10 | 15 | 4 | 4 |
| C/E (KG) | 208 | 151 | 127 | 116 | 96 | 118 | 105 | 74 | 163 | 163 |
| % > 2.3 KG | 9 | | | | | | | | | |

APPENDIX 1, ARCTIC CHAR CATCH STATISTICS, 1974-1992.
SUMMARY OF CATCH AND EFFORT DATA FOR THE NAIN FISHING REGION

| AREA=TASIUYAK | | | | | | | |
|---------------------|------|------|------|------|------|------|------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
| QUOTAS | | | | | | | |
| CATCH (KG) | 1467 | | 281 | | 2280 | 1837 | 1137 |
| EFFORT (PERSON-WKS) | 15 | | 2 | | 9 | 11 | 8 |
| C/E (KG) | 98 | | 141 | | 253 | 167 | 142 |
| % > 2.3 KG | | | 21 | | 71 | 34 | 14 |
| | | | | | | | |
| | | | | | | | |
| QUOTAS | | | | | | | |
| CATCH (KG) | 3423 | 4724 | 6749 | 8997 | 2823 | 3186 | 3302 |
| EFFORT (PERSON-WKS) | 23 | 36 | 26 | 61 | 22 | 23 | 17 |
| C/E (KG) | 149 | 131 | 260 | 147 | 128 | 139 | 194 |
| % > 2.3 KG | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| QUOTAS | | | | | | | |
| CATCH (KG) | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |

| AREA=MUGFORD | | | | | | | |
|---------------------|------|------|------|------|------|------|------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| QUOTAS | | | | | | | |
| CATCH (KG) | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |

| AREA=OKAK BAY | | | | | | | |
|---------------------|------|------|------|------|------|------|------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| QUOTAS | | | | | | | |
| CATCH (KG) | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |

APPENDIX 1, ARCTIC CHARR CATCH STATISTICS, 1974-1982.
SUMMARY OF CATCH AND EFFORT DATA FOR THE NAIN FISHING REGION

| AREA=CUTTHROAT | | | | | | | | | | |
|---------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 12641 | 2703 | 7526 | 15488 | 41146 | 17803 | 32397 | 37263 | 25699 | 19043 |
| EFFORT (PERSON-WKS) | 95 | 47 | 103 | 130 | 267 | 161 | 205 | 172 | 164 | 164 |
| C/E (KG) | 133 | 58 | 73 | 119 | 154 | 111 | 158 | 217 | 157 | 116 |
| % > 2.3 KG | | | 17 | 25 | 25 | 12 | 12 | 13 | 15 | 10 |
| 1984 | | | | | | | | | | |
| | 1985 | | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 4570 | 8515 | 8756 | 3954 | 4842 | 1591 | 3628 | 320 | 180 | |
| EFFORT (PERSON-WKS) | 65 | 106 | 89 | 70 | 89 | 84 | 55 | 18 | 13 | |
| C/E (KG) | 70 | 80 | 98 | 56 | 54 | 19 | 66 | 18 | 14 | |
| % > 2.3 KG | | 7 | | | | | | | | |

| AREA=NAPARTOK | | | | | | | | | | |
|---------------------|-------|-------|------|------|------|------|-------|------|------|------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 28972 | 28039 | 8551 | 2486 | 752 | 291 | 16485 | | | |
| EFFORT (PERSON-WKS) | 124 | 126 | 50 | 33 | 11 | 3 | 60 | | | |
| C/E (KG) | 234 | 223 | 171 | 75 | 68 | 97 | 275 | | | |
| % > 2.3 KG | 14 | 22 | 20 | 16 | 13 | 12 | 8 | | | |
| 1984 | | | | | | | | | | |
| | 1985 | | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | | | | | | | 242 | 4414 | | |
| EFFORT (PERSON-WKS) | | | | | | | 4 | 16 | | |
| C/E (KG) | | | | | | | 60 | 276 | | |
| % > 2.3 KG | | | | | | | | | | |

| AREA=HEBRON FIORD | | | | | | | | | | |
|---------------------|-------|------|------|------|------|------|------|-------|-------|-------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 5957 | | | | | | 2915 | 39901 | 37822 | |
| EFFORT (PERSON-WKS) | 37 | | | | | | | 106 | 98 | |
| C/E (KG) | 161 | | | | | | | 376 | 386 | |
| % > 2.3 KG | 16 | | | | | | | 19 | 34 | |
| 1984 | | | | | | | | | | |
| | 1985 | | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | 20000 | | | | | | | 643 | 20731 | 21252 |
| EFFORT (PERSON-WKS) | 19531 | | | | | | | 1 | 49 | 92 |
| C/E (KG) | 112 | | | | | | | 91 | 643 | 231 |
| % > 2.3 KG | | | | | | | | | | |

**APPENDIX 1, ARCTIC CHARR CATCH STATISTICS, 1974-1992.
SUMMARY OF CATCH AND EFFORT DATA FOR THE MAIN FISHING REGION**

| AREA=DOMES | | | | | | | |
|---------------------|------|------|------|------|------|------|------|
| 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |
| 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |

| AREA=SAGLEK FIORD | | | | | | | |
|---------------------|------|------|------|------|------|------|------|
| 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |
| 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |

| AREA=RAMAHI | | | | | | | |
|---------------------|------|------|------|------|------|------|------|
| 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |
| 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
| QUOTAS | | | | | | | |
| CATCH (KG) | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | |
| C/E (KG) | | | | | | | |
| % > 2.3 KG | | | | | | | |

APPENDIX 1, ARCTIC CHARR CATCH STATISTICS, 1974-1992.
SUMMARY OF CATCH AND EFFORT DATA FOR THE NAIN FISHING REGION

| AREA=NACHVAK | | | | | | | | | | |
|--------------------------|------|------|------|-------|------|------|------|------|------|------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | | | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | | | |
| C/E (KG) | | | | | | | | | | |
| % > 2.3 KG | | | | | | | | | | |
| | | | | | | | | | | |
| AREA=NAIN FISHERY | | | | | | | | | | |
| | 1974 | 1975 | 1976 | 1977* | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
| QUOTAS | | | | | | | | | | |
| CATCH (KG) | | | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | | | |
| C/E (KG) | | | | | | | | | | |
| % > 2.3 KG | | | | | | | | | | |
| | | | | | | | | | | |

* INCLUDES 186 KG UNACCOUNTED FOR BY AREA

APPENDIX 2, MAIN REGION ATLANTIC SALMON CATCH STATISTICS, 1974-1992.

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| AREA=NAIN BAY | | | | | | |
|---------------------|------|------|------|-------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
| CATCH (KG) | | | | | 90 | 2 |
| EFFORT (PERSON-WKS) | | | | | 9 | 2 |
| C/E (KG) | | | | | 10 | 1 |
| | | | | | 11 | 1 |
| | | | | | 12 | 2 |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | 9 | 43 | 6 | 7 | 11.8 | 35 |
| C/E (KG) | 2 | 6 | 7 | 7 | 11 | 10 |
| | | | | | 4 | 4 |
| | | | | | 5 | 5 |
| | | | | | 19 | 3 |
| | | | | | 4 | 4 |
| | | | | | 5 | 4 |
| AREA=DOG ISLAND | | | | | | |
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
| CATCH (KG) | 5999 | 5337 | 6877 | 9220 | 8022 | 4476 |
| EFFORT (PERSON-WKS) | 76 | 66 | 101 | 110 | 78 | 62 |
| C/E (KG) | 79 | 81 | 68 | 84 | 103 | 72 |
| | | | | | 72 | 56 |
| | | | | | 72 | 56 |
| | | | | | 19 | 19 |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | 772 | 473 | 965 | 703 | 1106 | 1564 |
| C/E (KG) | 21 | 20 | 36 | 36 | 23 | 30 |
| | 37 | 24 | 27 | 20 | 48 | 52 |
| | | | | | 2 | 2 |
| | | | | | 15 | 15 |
| AREA=BLACK ISLAND | | | | | | |
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
| CATCH (KG) | 8659 | 9710 | 5557 | 11844 | 8374 | 6944 |
| EFFORT (PERSON-WKS) | 98 | 103 | 1.6 | 1.39 | 99 | 96 |
| C/E (KG) | 88 | 94 | 48 | 85 | 85 | 72 |
| | | | | | 72 | 78 |
| | | | | | 38 | 55 |
| | | | | | 38 | 44 |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | 2842 | 4790 | 1928 | 3980 | 4686 | 2217 |
| C/E (KG) | 67 | 86 | 54 | 57 | 64 | 66 |
| | 42 | 56 | 36 | 70 | 73 | 34 |
| | | | | | 34 | 24 |
| | | | | | 24 | 15 |
| AREA=OKAK BAY | | | | | | |
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
| CATCH (KG) | 842 | 1011 | 1055 | 335 | 1364 | 92 |
| EFFORT (PERSON-WKS) | 51 | 51 | 66 | 36 | 34 | 11 |
| C/E (KG) | 17 | 20 | 16 | 9 | 40 | 8 |
| | | | | | 8 | 9 |
| | | | | | 9 | 8 |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
| EFFORT (PERSON-WKS) | 465 | 428 | 171 | 283 | 775 | 280 |
| C/E (KG) | 52 | 44 | 29 | 30 | 64 | 29 |
| | 9 | 10 | 6 | 9 | 12 | 10 |
| | | | | | 10 | 8 |
| | | | | | 10 | 8 |

APPENDIX 2, MAIN REGION ATLANTIC SALMON CATCH STATISTICS, 1974-1992.

AREA=NAPARTOK BAY

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 2174 | 3423 | 4402 | 929 | 193 | 432 | | |
| EFFORT (PERSON-WKS) | 72 | 32 | 33 | 8 | 3 | 33 | | |
| C/E (KG) | 30 | 107 | 133 | 116 | 64 | 13 | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

AREA=HEBON FIORD

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 430 | 31 | 34 | 33 | 350 | | | |
| EFFORT (PERSON-WKS) | 14 | | | | | | | |
| C/E (KG) | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

AREA=SAGLEK FIORD

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 498 | 26 | 78 | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

AREA=ANTONS

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 126 | 51 | 293 | 85 | 59 | 88 | 638 | 139 |
| EFFORT (PERSON-WKS) | 10 | 7 | 34 | 10 | 12 | 10 | 40 | 18 |
| C/E (KG) | 13 | 7 | 9 | 9 | 5 | 9 | 16 | 8 |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

APPENDIX 2, NAIN REGION ATLANTIC SALMON CATCH STATISTICS, 1974-1992.

| AREA=NACHVAK FIORD | | | | | | | |
|----------------------|---------------------|----------|------|------|------|------|------|
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1977 | 1978 | 1979 | 1980 | 1981 |
| | | | 1985 | 1986 | 1987 | 1988 | 1989 |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | | | | | |
| AREA=VOISEY BAY | | | | | | | |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1977 | 1978 | 1979 | 1980 | 1981 |
| 8.3 | 410 | 33 | | | | | |
| 14 | 20 | 5 | | | | | |
| 6 | 21 | 7 | | | | | |
| | | | | | | | |
| | | | | | | | |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1985 | 1986 | 1987 | 1988 | 1989 |
| | | | | | | | |
| AREA=ANAKTALIK BAY | | | | | | | |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1977 | 1978 | 1979 | 1980 | 1981 |
| 2.7 | 12 | 9.2 | | | | | |
| 4 | 3 | 1.2 | | | | | |
| 7 | 4 | 8 | | | | | |
| | | | | | | | |
| | | | | | | | |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1985 | 1986 | 1987 | 1988 | 1989 |
| | | | | | | | |
| AREA=TIKKOATORAK BAY | | | | | | | |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1977 | 1978 | 1979 | 1980 | 1981 |
| 22 | 25 | 13 | | | | | |
| 5 | 3 | 3 | | | | | |
| 4 | 8 | 4 | | | | | |
| | | | | | | | |
| | | | | | | | |
| CATCH (KG) | EFFORT (PERSON-WKS) | C/E (KG) | 1985 | 1986 | 1987 | 1988 | 1989 |
| | | | | | | | |
| | | | | | | | |

APPENDIX 2, MAIN REGION ATLANTIC SALMON CATCH STATISTICS, 1974-1992.

AREA=WEBB BAY

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|-----------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 236 | 131 | 118 | 2 | 173 | 264 | 487 | 142 |
| EFFORT (PERSON-WKS) | 17 | 9 | 6 | 1 | 19 | 20 | 42 | 17 |
| C/E (KG) | 14 | 15 | 20 | 2 | 9 | 13 | 12 | 8 |
| | | | | | | | | |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 173 | 59 | 79 | 103 | 114 | 202 | 98 | 121 |
| C/E (KG) | 15 | 12 | 9 | 10 | 12 | 9 | 5 | 6 |
| | | | | | | | | |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 12 | 5 | 9 | 10 | 10 | 22 | 20 | 20 |
| C/E (KG) | | | | | | | | |

AREA=KIGLAPANTS

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|-----------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 5357 | 7544 | 5183 | 7690 | 5177 | 3743 | 4231 | 2502 |
| EFFORT (PERSON-WKS) | 47 | 86 | 117 | 94 | 94 | 35 | 90 | 39 |
| C/E (KG) | 114 | 88 | 44 | 82 | 55 | 107 | 47 | 64 |
| | | | | | | | | |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 1255 | 1459 | 336 | 346 | 2430 | 179 | 204 | 126 |
| C/E (KG) | 38 | 48 | 14 | 6 | 24 | 9 | 12 | 4 |
| | | | | | | | | |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 33 | 30 | 24 | 58 | 101 | 20 | 17 | 32 |
| C/E (KG) | | | | | | | | |

AREA=TASIUYAK

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|-----------------------|------|------|------|------|------|------|------|------|
| CATCH (KG) | 3 | 18 | 248 | 248 | 248 | 105 | 58 | 58 |
| EFFORT (PERSON-WKS) | 1 | 2 | 5 | 5 | 5 | 2 | 7 | 7 |
| C/E (KG) | 3 | 9 | 50 | 50 | 50 | 53 | 53 | 8 |
| | | | | | | | | |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 35 | 324 | 138 | 167 | 495 | 75 | 18 | 49 |
| C/E (KG) | 6 | 15 | 19 | 9 | 12 | 10 | 2 | 4 |
| | | 22 | 7 | 19 | 41 | 8 | 9 | 12 |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 6 | 123 | 123 | 122 | 133 | 159 | 144 | 72 |
| C/E (KG) | | | | | | | | |

AREA=CUTTHROAT

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|-----------------------|-------|-------|-------|-------|-------|-------|------|------|
| CATCH (KG) | 17626 | 21166 | 12072 | 29716 | 21757 | 15291 | 6936 | 7013 |
| EFFORT (PERSON-WKS) | 135 | 174 | 153 | 199 | 165 | 157 | 122 | 50 |
| C/E (KG) | 131 | 122 | 79 | 149 | 132 | 97 | 57 | 140 |
| | | | | | | | | |
| CATCH (KG) | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| EFFORT (PERSON-WKS) | 8745 | 12400 | 10599 | 14323 | 20080 | 8212 | 1522 | 1770 |
| C/E (KG) | 82 | 101 | 87 | 108 | 126 | 57 | 21 | 21 |
| | 107 | 123 | 123 | 133 | 159 | 144 | 72 | 84 |

APPENDIX 2 , NAIN REGION ATLANTIC SALMON CATCH STATISTICS , 1974-1992.

----- AREA=MUGFORD -----

| | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | 121 | 8 | 159 | | | | | |
| C/E (KG) | 7 | 2 | 3 | | | | | |
| | 17 | 4 | 53 | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

----- AREA=DOME'S -----

| | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

----- AREA=RAMAH BAY -----

| | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | | | | | | | | |
| C/E (KG) | | | | | | | | |

----- AREA=NAIN FISHERY -----

| | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | 41581 | 48945 | 35722 | 60332 | 48124 | 32974 | 20105 | 15596 |
| C/E (KG) | 560 | 562 | 650 | 619 | 598 | 491 | 542 | 339 |
| | 74 | 87 | 55 | 97 | 80 | 67 | 37 | 46 |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
| CATCH (KG) | | | | | | | | |
| EFFORT (PERSON-WKS) | 14653 | 20090 | 14414 | 20090 | 29960 | 12892 | 2688 | 2671 |
| C/E (KG) | 308 | 350 | 275 | 282 | 359 | 246 | 89 | 85 |
| | 48 | 57 | 52 | 71 | 83 | 52 | 30 | 31 |