# 1989 Atlantic Salmon Sport Catch Statistics Maritime Provinces 

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## General

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#### Abstract

O'Neil, S.F., D.A. Stewart, K. Rutherford and R. Pickard. 1996. 1989 Atlantic salmon sport catch statistics, Maritime Provinces. Can. Data Rep. Fish. Aquat. Sci. No. 999. v+81 p.

The Maritime Provinces Atlantic salmon sport catch in 1989 was 50,961 fish - 36,376 grilse retained, 1,562 grilse released, and 13,023 large salmon ( $>63 \mathrm{~cm}$ fork length) released. Field staff estimated that 37 New Brunswick rivers yielded 25,060 bright fish ( 19,862 grilse retained) and 7,996 kelts to anglers. Nova Scotia anglers reported fishing on 96 rivers and harvested or released a total of 17,667 large salmon and grilse. A total of 238 grilse were caught on Prince Edward Island. Anglers spent 82,722 rod-days on New Brunswick rivers and 82,627 rod-days on Nova Scotia rivers during the 1989 season. Catch per unit effort (fish per rod-day) for the Maritimes was 0.300 .


Keywords: Atlantic salmon, sport catch, rod-days, kelts, grilse, large salmon, New Brunswick, Nova Scotia, Maritimes.

## RÉSUMÉ

O'Neil, S.F., D.A. Stewart, K. Rutherford and R. Pickard. 1996. 1989 Atlantic salmon sport catch statistics, Maritime Provinces. Can. Data Rep. Fish. Aquat. Sci. No. $999 . v+81$ p.

Les prises sportives de saumon de l'Atlantique effectuées dans les provinces Maritimes en 1989 s'établissent à 50961 saumons, soit 36376 madeleineaux capturés et gardés, 1562 madeleineaux remis à l'eau et 13023 gros saumons (plus de 63 cm de longueur à la fourche) remis à l'eau. Les employés des régions concernees ont estimé à 25060 saumons de montée (19 862 madeleineaux gardés) et 7996 charognards les prises obtenues dans 37 rivieres du Nouveau-Brunswick. En Nouvelle-Écosse, les prises sportives de saumon, soit gardées soit remises à l'eau, obtenues dans 96 rivières s'élèvent à 17667 gros saumons et madeleineaux. A lle-du-Prince-Édward, les prises se sont limitées à 238 madeleineaux. En 1989, les pêcheurs ont consacré à la pêche 82722 journées au Nouveau-Brunswick et 82627 en Nouvelle-Écosse. La prise par effort unitaire (poissons par journée de pêche) pour les Maritimes a été de 0,300.

## INTRODUCTION

This document records the reported Atlantic salmon sport catch and effort data for the Maritime Provinces for 1989.

The data portion of this report is divided into three sections, as follows:

Overview: This section includes a summary of sport catch and effort data collectively for the Maritimes as well as for each province. The Canadian catch of Atlantic salmon in sport fisheries is given in Table 1. Also included in this section is a summary of catch per unit effort and license sales for the three Maritime Provinces.

New Brunswick and Prince Edward Island: The catch and effort data for New Brunswick and Prince Edward Island rivers are collected by fishery officers with Fisheries and Oceans and biologists and field staff of the New Brunswick Department of Natural Resources and Energy. These data are presented separately from the Nova Scotia data because collection methods differ. This section includes catch and effort on individual rivers, by month, a variety of summaries of the data by geographic area or river system, and the seasons and variation orders for each river.

Nova Scotia: Individual anglers are expected to report their catch and effort data on Nova Scotia rivers. The data tables in this section include a summary of the angler reports which provides sport fisheries data on individual rivers. In addition, catch and effort are given for a variety of geographic areas including counties (Tables 21 and 25), Fisheries and Oceans statistical districts (Tables 20 and 24) and Salmon Fishing Areas (Tables 22 and 26). Open season dates are included on the catch data tables and any variation orders which affected bag limits or season dates can be found in Table 29.

## Quality of the data

The sport catch data in New Brunswick and Prince Edward Island are collected principally by field staff who have known sources for "word-of-mouth" information which they assimilate with other
sources to reach the best available estimate of actual catches. These procedures have become progressively less reliable because of a change in fishery officer priorities and changes in fishing regulations which require the release of large salmon. Hence, these data should be considered minimum estimates, particularly for the large salmon catches. There is no method to estimate error associated with this data collection technique.

In Nova Scotia, each angler is required by law to return a license stub with a record of catch and effort data for each river fished. Response rates in the program are typically over $70 \%$ with the use of a single reminder letter to prompt nonrespondents. In 1989, the response rate was $73 \%$ and represents the input from 6,307 anglers (Table 18). A brief description of the procedures used to estimate angling catch for the province and for each river is given in Appendix 2.

The mandatory release of large salmon by anglers became law in 1984. In New Brunswick the regulation came into effect prior to the bright salmon fishery and in Nova Scotia on August 8, 1984. The abbreviated commercial salmon fishery which occurred in 1984 was the last within the Maritime Provinces. Together, these regulation changes have had an impact on the return of salmon to the rivers of the Maritimes and affected the nature of the data. As a result, comparison of catches prior to 1985 with data since then may mislead readers. The authors urge caution when comparing catch data over a series of years. Note that many of the tables record "retained" fish only. Prior to 1985 large salmon were retained. Since 1984, the number of large salmon or grilse that were released have not been included in those tables. The tables, in effect, record harvest. A summary of released fish for those New Brunswick rivers where the data were available is given in Table 11. The numbers of salmon and grilse reported released on rivers in Nova Scotia are given on the appropriate tables in the Nova Scotia section of the report.

## COMMENT ON THE FISHERY

Recreational Atlantic salmon catches in 1989 were less than those reported in 1988 in most areas of Atlantic Canada (Table 1). The collective retained catch for rivers in the Maritime Provinces of 36,000 was down by $8 \%$ from the 39,000 fish harvested in 1988 (Table 2, O'Neil et al. 1991).

Management plan changes were introduced in 1984 to reduce the commercial harvest and interception fisheries, and to eliminate the large salmon harvest in the recreational fisheries of the Maritimes. Those changes were expected to contribute to increased returns to the rivers, but were not observed in 1989 when compared with the long-term (1970-88) or short-term (198488) mean catches of 37,000 fish and 35,000 fish, respectively. The one exception to the general decline in catches in 1989 was the catch of grilse in Nova Scotia rivers which increased from 8,000 in 1988 to 9,000 in 1989 (Table 2). CAFSAC (1989) noted that the estimated returns of Atlantic salmon to Salmon Fishing Areas of the Maritime Provinces in 1989 were generally down from both the 5 -year and 10-year means. The decline was particularly evident in the Gulf of St. Lawrence salmon stocks.

The reduction in catches noted in 1989 relative to 1988 could in part be attributed to water levels in the rivers. The discharge data for 1989 from 12 stations around the Maritime Provinces indicate that water levels were the lowest in the 1982-89 time series for July and second lowest of the same time series for August (Fig. 1; Anon. 1982..1989).

The reported catch of salmon by "year of run" (where the bright salmon catch of one year is added to the kelt or slink salmon catch of the next) was 33,000 salmon in New Brunswick for 1988 (Table 3). This figure is up considerably from the 25,000 fish angled by "year of run" for 1987. Kelt fisheries do not occur in Nova Scotia or Prince Edward Isiand.

Effort in the recreational salmon fishery is expressed in rod-days. A rod-day is one day of effort which occurs when an angler spends any part of a day fishing on a
particular river. The combined effort of anglers who fished in the Maritime Provinces in 1989 was 170,000 rod-days (Table 4). This effort figure is similar to the 175,000 rod-days of effort expended in 1988 but well above the long- (1970-88) and short-term (1984-88) means of 137,000 and 163,000, respectively. Angler effort in Nova Scotia increased by $5 \%$ over the 1988 level to 82,600 rod-days. Effort decreased in New Brunswick from the 1988 level to 82,700 roddays, a reduction of $9 \%$. The number of roddays reported on Prince Edward Island rivers fell from a high of 5,200 in 1988 to 4,600 in 1989 (Table 4).

Angler success is measured as catch per unit of effort (CPUE), and for the Atlantic salmon fishery, as catch per rod-day. The CPUE for the Maritime Provinces has ranged from a low of 0.151 in 1983 to a high of 0.428 in 1970 (Table 4). In other words, when fisher success was at its highest in 1970, each fisher took approximately 2.3 days to catch a salmon. When angler success was lowest, each person took approximately 6.6 days to catch a fish.

Trends in catch per rod-day can indicate changes in the availability or abundance of fish. The CPUE for New Brunswick and Nova Scotia remained relatively constant from the early 1970 s until 1977 after which a variable but generally downward trend in catch per rod-day occurred for several years (Fig. 2). The low CPUE evident in 1983 preceded the management plan changes implemented to restore runs of Atlantic salmon. Some evidence of the effect of those regulation changes can be seen in the graph depicting catch per unit effort for the period 1984-1986 for all three Maritime Provinces. The improved catch rates were not sustained in New Brunswick and Nova Scotia after 1986 or in P.E.I. after 1987 (Fig. 2). The recent estimate (i.e., since 1984) of Atlantic salmon sport catch is known to be an underestimate due to the unreported release of many large salmon and grilse. Thus the catch per unit effort figures since 1984, given in Table 4, may be lower than the true values.

The catch of salmon from Maritime rivers which discharge into the Gulf of St. Lawrence was approximately twice the number of fish angled in waters tributary to
the Atlantic and Bay of Fundy coasts of New Brunswick and Nova Scotia in 1989 (Table 5). The largest salmon river in the Maritime Provinces in terms of numbers of fish is the Miramichi River. Collectively, the streams in that system provided 18,500 grilse to fishers in the kelt and bright salmon fisheries, combined. That number represents $75 \%$ of the salmon harvested from rivers within the Gulf Region. In the Scotia-Fundy Region, the largest catch occurred on the Saint John River - 2,800 fish, which accounted for $24 \%$ of the total harvest within the region (Table 5).

Atlantic salmon sport catch has become increasingly important as an indicator of the size of the salmon run to a river. This is particularly true in cases where there are no other means of estimating the size or health of the Atlantic salmon stock in that river (CAFSAC 1989). There are several rivers where the return of salmon is monitored through a counting facility. Counts of grilse at those facilities in 1989 indicated that the return of fish to Atlantic coast rivers was similar to returns in 1988 at most locations (Tables 6 and 7; Fig. 3). The exception was the LaHave River where the number of grilse counted at Morgan Falls was down from 3,500 in 1988 to 2,600 in 1989. The number of large salmon counted in 1989 was up from numbers seen in 1988 at 3 of 4 traps where counts are complete (Tables 6 and 7; Fig. 4).

License sales in 2 of the 3 Maritime Provinces increased relative to 1988 sales. In New Brunswick, a change in fee structure for the general fishing license and salmon license resulted in a marked increase in license sales from 21,866 in 1988 to $36,102^{1}$ in 1989 (Table 8). In Nova Scotia, the number of non-resident license holders increased $30 \%$ from 1,263 in 1988 to 1,641

[^1]in 1989. The number of resident salmon fishers also increased from 6,764 to 6,974 . The number of licensed salmon fishers in Prince Edward Island decreased 10\% from 719 in 1988 to 646 in 1989.

Angling seasons in 1989 in New Brunswick included a kelt (Apr. 15 to May 15) and bright season (variable between June 1 and October 31 depending on the river) on most rivers (Table 9). Kelt fisheries are not permitted on several rivers in New Brunswick (e.g., Restigouche system, Nepisiguit, etc.) or on any rivers in Nova Scotia or Prince Edward Island. Some rivers or areas of rivers were closed to fishing in 1989 (Table 10).

The available estimates of large salmon released in 1989 on New Brunswick rivers totalled 6,063 fish (Table 11). Some of these estimates were arrived at after the seasons closed, so are known to be rough approximations only.

The Cheticamp River is included in the Cape Breton Highlands National Park, so angling data are obtained through park wardens. The catch and effort report for the Cheticamp River is given in Table 28.

## ACKNOWLEDGEMENTS

The Nova Scotia salmon angling license stub program is managed jointly by the Department of Fisheries and Oceans and the Nova Scotia Department of Natural Resources. In particular, the contribution of the licensing unit at Natural Resources has been invaluable in the smooth running of this system.

Thanks are also due to the many anglers who completed and returned their license stubs.

The provision of data on many of the New Brunswick rivers by wardens and biologists with the New Brunswick Department of Natural Resources and Energy is greatly appreciated. Fisheries and Oceans field officers in some locations have contributed catch and effort statistics which we gratefully acknowledge. The Nepisiguit River data was made available through the generous efforts of B. Baker of the Nepisiguit River Association.

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TABLE 1. Atlantic salmon angling catches (retained fish), Canada, 1965-89.

| Year angled | Numbers of large salmon and grilse |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New Brunswick | Nova Scotia | Prince Edward Island | Quebec | Newfoundland and Labrador | Total |
| 1965 | 66,962 | 2,655 | 12 | 12,019 | 34,947 | 116,595 |
| 1966 | 85,935 | 3,596 | 10 | 12,873 | 34,626 | 137,040 |
| 1967 | 75,002 | 5,245 | 27 | 13,424 | 27,876 | 121,574 |
| 1968 | 27,373 | 3,069 | 10 | 8,603 | 35,744 | 74,799 |
| 1969 | 43,009 | 3,174 | 12 | 14,132 | 40,545 | 100,872 |
| 1970 | 34,969 | 4,948 | 13 | 14,846 | 37,167 | 91,943 |
| 1971 | 19,348 | 3,910 | 0 | 8,801 | 32,711 | 64,770 |
| 1972 | 32,119 | 4,152 | 7 | 14,131 | 29,175 | 79,584 |
| 1973 | 30,537 | 5,144 | 2 | 15,189 | 45,936 | 96,808 |
| 1974 | 42,237 | 8,519 | 2 | 17,455 | 31,002 | 99,215 |
| 1975 | 27,593 | 3,560 | 0 | 15,507 | 38,930 | 85,590 |
| 1976 | 43,169 | 7,309 | 7 | 15,348 | 42,070 | 107,903 |
| 1977 | 57,936 | 7,027 | 0 | 20,028 | 42,987 | 127,978 |
| 1978 | 24,741 | 4,067 | 6 | 18,473 | 33,640 | 80,927 |
| 1979 | 26,210 | 7,143 | 3 | 11,308 | 36,457 | 81,121 |
| 1980 | 32,698 | 8,356 | 6 | 24,244 | 42,640 | 107,944 |
| 1981 | 28,499 | 10,232 | 112 | 22,637 | 54,680 | 116,160 |
| 1982 | 25,116 | 6,572 | 83 | 18,473 | 47,806 | 98,050 |
| 1983 | 16,263 | 7,975 | 11 | 12,079 | 38,602 | 74,930 |
| 1984 | 16,747 | 6,083 | 7 | 11,897 | 43,287 | 78,021 |
| 1985 | 24,042 | 8,527 | 47 | 13,767 | 40,042 | 86,425 |
| 1986 | 40,308 | 7,998 | 236 | 17,695 | 41,427 ${ }^{1}$ | 107,664 |
| 1987 | 23,520 | 8,330 | 476 | 16,697 | 30,479 | 79,502 |
| 1988 | 30,779 | 8,036 | 643 | 21,087 | 46,074 | 106,619 |
| 1989 | 26,993 | 9,145 | 167 | 16,508 | 23,607 | 76,420 |

' Claytor and Mullins 1988; O'Connell, et al. 1988.

TABLE 2. Atlantic salmon angling catches (retained fish) by year angled, Maritime Provinces, 1970-89.

| Year angled | Numbers of large salmon and grilse |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New Brunswick |  |  | Nova | Prince Edward Island | Total |
|  | Kelt | Bright | Total | Scotia |  |  |
| 1970 | 7,081 | 27,888 | 34,969 | 4,948 | 13 | 39,930 |
| 1971 | 5,406 | 13,942 | 19,348 | 3,910 | 0 | 23,258 |
| 1972 | 2,563 | 29,556 | 32,119 | 4,152 | 7 | 36,278 |
| 1973 | 7,944 | 22,593 | 30,537 | 5,144 | 2 | 35,683 |
| 1974 | 8,655 | 33,582 | 42,237 | 8,519 | 2 | 50,758 |
| 1975 | 6,455 | 21,138 | 27,593 | 3,560 | 0 | 31,153 |
| 1976 | 9,386 | 33,783 | 43,169 | 7,309 | 7 | 50,485 |
| 1977 | 22,832 | 35,104 | 57,936 | 7.027 | 0 | 64,963 |
| 1978 | 8,307 | 16,434 | 24,741 | 4,067 | 6 | 28,814 |
| 1979 | 8,935 | 17,275 | 26,210 | 7,143 | 3 | 33,356 |
| 1980 | 6,326 | 26,372 | 32,698 | 8,356 | 6 | 41,060 |
| 1981 | 9,753 | 18,746 | 28,499 | 10,232 | 112 | 38,843 |
| 1982 | 2,152 | 22,964 | 25,116 | 6.572 | 83 | 31,771 |
| 1983 | 4,533 | 11,730 | 16,263 | 7,975 | 11 | 24,249 |
| 1984 | 1,709 | 15,038 | 16,747 | 6,083 | 7 | 22,837 |
| 1985 | 3,810 | 20,232 | 24,042 | 8,527 | 47 | 32,616 |
| 1986 | 1,690 | 38,618 | 40,308 | 7,998 | 236 | 48,542 |
| 1987 | 3,259 | 20,261 | 23,520 | 8,330 | 476 | 32,326 |
| 1988 | 4,434 | 26,345 | 30,779 | 8,036 | 643 | 39,458 |
| 1989 | 7,131 | 19,862 | 26,993 | 9,145 | 167 | 36,305 |
| Mean |  |  |  |  |  |  |
| 1970-88 | 6,591 | 23,768 | 30,360 | 6,731 | 87 | 37,178 |
| 1984-88 | 2,980 | 24,099 | 27,079 | 7,795 | 282 | 35,156 |

TABLE 3. Atlantic salmon angled and retained by year of run', Maritime Provinces, 1970-88.

| Year of run | Numbers of grilse |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New Brunswick |  |  | Nova Scotia | Prince Edward Island | Total |
|  | Kelt | Bright | Total |  |  |  |
| 1970 | 5,406 | 27,888 | 33,294 | 4,948 | 13 | 38,255 |
| 1971 | 2,563 | 13,942 | 16,505 | 3,910 |  | 20,415 |
| 1972 | 7,944 | 29,556 | 37,500 | 4,152 | 7 | 41,659 |
| 1973 | 8,655 | 22,593 | 31,248 | 5,144 | 2 | 36,394 |
| 1974 | 6,455 | 33,582 | 40,037 | 8,519 | 2 | 48,558 |
| 1975 | 9,386 | 21,138 | 30,524 | 3,560 |  | 34,084 |
| 1976 | 22,832 | 33,783 | 56,615 | 7,309 | 7 | 63,931 |
| 1977 | 8,307 | 35,104 | 43,411 | 7,027 |  | 50,438 |
| 1978 | 8,935 | 16,434 | 25,369 | 4,067 | 6 | 29,442 |
| 1979 | 6,326 | 17,275 | 23,601 | 7,143 | 3 | 30,747 |
| 1980 | 9,753 | 26,372 | 36,125 | 8,356 | 6 | 44,487 |
| 1981 | 2,152 | 18,746 | 20,898 | 10,232 | 112 | 31,242 |
| 1982 | 4,533 | 22,964 | 27,497 | 6,572 | 83 | 34,152 |
| 1983 | 1,709 | 11,730 | 13,439 | 7,975 | 11 | 21,425 |
| 1984 | 3,810 | 15,038 | 18,848 | 6,083 | 7 | 24,938 |
| 1985 | 1,690 | 20,232 | 21,922 | 8,527 | 47 | 30.496 |
| 1986 | 3,259 | 38,618 | 41,877 | 7,998 | 236 | 50.111 |
| 1987 | 4,434 | 20,261 | 24,695 | 8,330 | 476 | 33,501 |
| 1988 | 7,131 | 26,345 | 33,476 | 8,036 | 643 | 42,155 |

1. The kelt salmon catch in any one year is added to the bright salmon catch of the previous year, in order to give the total angling catch from a specific annual run.

TABLE 4. Angling effort (rod-days) and catch per unit effort (CPUE) for the Maritime Provinces, by year of catch, 1970-89.

| Year | Maritimes |  | Nova Scotia |  | New Brunswick |  | Prince Edward Island |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rod-days | CPUE | Rod-days | CPUE | Rod-days | CPUE | Rod-days | CPUE |
| 1970 | 93,373 | 0.428 | 30,386 | 0.163 | 62,783 | 0.557 | 204 | 0.064 |
| 1971 | 76,106 | 0.306 | 26,104 | 0.150 | 49,919 | 0.388 | 38 | 0.000 |
| 1972 | 92,401 | 0.393 | 26,951 | 0.154 | 65,312 | 0.492 | 138 | 0.051 |
| 1973 | 106,758 | 0.334 | 32,221 | 0.160 | 74,369 | 0.411 | 168 | 0.012 |
| 1974 | 139,336 | 0.364 | 46,825 | 0.182 | 92,433 | 0.457 | 78 | 0.026 |
| 1975 | 86,907 | 0.358 | 19,880 | 0.179 | 67,027 | 0.412 | 0 | 0.000 |
| 1976 | 131,954 | 0.383 | 39,901 | 0.183 | 91,789 | 0.470 | 264 | 0.027 |
| 1977 | 159,481 | 0.407 | 43,463 | 0.162 | 115,907 | 0.500 | 111 | 0.000 |
| 1978 | 107,989 | 0.267 | 33,629 | 0.121 | 74,225 | 0.333 | 135 | 0.044 |
| 1979 | 132,639 | 0.251 | 57,520 | 0.124 | 75,059 | 0.349 | 60 | 0.050 |
| 1980 | 158,016 | 0.260 | 69,067 | 0.121 | 88,818 | 0.368 | 131 | 0.046 |
| 1981 | 161,272 | 0.241 | 70,410 | 0.145 | 89,948 | 0.317 | 914 | 0.123 |
| 1982 | 182,921 | 0.174 | 72,472 | 0.091 | 108,314 | 0.232 | 2,135 | 0.039 |
| 1983 | 160,808 | 0.151 | 74,601 | 0.107 | 85,743 | 0.190 | 464 | 0.024 |
| 1984 ' | 134,764 | 0.210 | 59,833 | 0.146 | 74,248 | 0.267 | 683 | 0.010 |
| 1985 ${ }^{\text {' }}$ | 160,382 | 0.303 | 64,947 | 0.251 | 94,402 | 0.342 | 1,033 | 0.045 |
| $1986{ }^{1}$ | 190,994 | 0.384 | 77,204 | 0.259 | 111,004 | 0.479 | 2,786 | 0.085 |
| $1987{ }^{\prime}$ | 152,978 | 0.296 | 69,310 | 0.230 | 81,303 | 0.357 | 2,365 | 0.201 |
| $1988{ }^{\prime}$ | 175,029 | 0.310 | 78,544 | 0.203 | 91,312 | 0.412 | 5,173 | 0.124 |
| 1989 ' | 169,962 | 0.300 | 82,627 | 0.221 | 82,722 | 0.400 | 4,613 | 0.052 |
| Mean |  |  |  |  |  |  |  |  |
| 1970-88 | 137,058 | 0.306 | 52,277 | 0.165 | 83,890 | 0.386 | 888 | 0.050 |
| Mean |  |  |  |  |  |  |  |  |
| 1984-88 | 162,829 | 0.301 | 69,968 | 0.218 | 90,454 | 0.371 | 2,408 | 0.093 |

[^2]TABLE 5. Scotia-Fundy and Gulf Region retained catches by year angled (kelt and bright fish), 1970-89.

| Year | Numbers grilse |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Scotia Fundy |  |  | Gulf |  |  |
|  | Kelt | Bright | Total | Kelf | Bright | Total |
| 1970 | 64 | 6,869 | 6,933 | 7,017 | 25,980 | 32,997 |
| 1971 | 157 | 5,687 | 5,844 | 5,249 | 12,165 | 17,414 |
| 1972 | 88 | 6,485 | 6,573 | 2,475 | 27,230 | 29,705 |
| 1973 | 99 | 7,755 | 7,854 | 7,845 | 19,984 | 27,829 |
| 1974 | 93 | 11,439 | 11,532 | 8,562 | 30,664 | 39,226 |
| 1975 | 185 | 6,985 | 7,170 | 6,270 | 17,713 | 23,983 |
| 1976 | 314 | 12,727 | 13,041 | 9,072 | 28,372 | 37,444 |
| 1977 | 265 | 11,175 | 11,440 | 22,567 | 30,956 | 53,523 |
| 1978 | 122 | 5,371 | 5,493 | 8,185 | 15,136 | 23,321 |
| 1979 | 47 | 10,337 | 10,384 | 8,888 | 14,084 | 22,972 |
| 1980 | 45 | 13,278 | 13,323 | 6,281 | 21,456 | 27,737 |
| 1981 | 38 | 12,476 | 12,514 | 9,715 | 16,614 | 26,329 |
| 1982 | 49 | 10,898 | 10,947 | 2,103 | 18,721 | 20,824 |
| 1983 | 109 | 10,830 | 10,939 | 4,424 | 8,886 | 13,310 |
| 1984 | 49 | 8,722 | 8,771 | 1,660 | 12,406 | 14,066 |
| 1985 | 103 | 12,538 | 12,641 | 3,707 | 16,268 | 19,975 |
| 1986 | 102 | 11,049 | 11,151 | 1,588 | 35,780 | 37,368 |
| 1987 | 184 | 10,333 | 10,517 | 3,075 | 18,260 | 21,335 |
| 1988 | 50 | 10,506 | 10,556 | 4,384 | 24,517 | 28,901 |
| 1989 | N/A | 11,690 | 11,690 | 7,131 | 17,484 | 24,615 |
| Mean $1970-88$ | 114 | 9761 | 9875 | 6477 | 20800 | 27277 |

$\mathrm{N} / \mathrm{A}=$ not available

TABLE 6. Grilse (1SW) and large salmon (MSW) counts at several of Scotia-Fundy Region's salmon monitoring facilities, 1986-1989. The hatchery component of returns is given in parentheses. These numbers are included in the total counts.

|  | 1986 |  | 1987 |  | 1988 |  | 1989 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| River (site) | 1SW | MSW | 1SW | MSW | 1SW | MSW | 1SW | MSW |
| LaHave (Morgan Falls) | $\begin{aligned} & 1676 \\ & (130) \end{aligned}$ | $\begin{aligned} & 647 \\ & (76) \end{aligned}$ | $\begin{aligned} & 3102 \\ & (573) \end{aligned}$ | $\begin{aligned} & 611 \\ & (79) \end{aligned}$ | $\begin{aligned} & 3520 \\ & (699) \end{aligned}$ | 449 <br> (59) | $\begin{aligned} & 2573 \\ & (489) \end{aligned}$ | $\begin{array}{r} 681 \\ (180) \end{array}$ |
| Liscomb (Falls) | $\begin{aligned} & 1502 \\ & (766) \end{aligned}$ | $\begin{array}{r} 225 \\ (108) \end{array}$ | $\begin{aligned} & 2137 \\ & (523) \end{aligned}$ | $\begin{aligned} & 142 \\ & (54) \end{aligned}$ | $\begin{array}{r} 908 \\ (431) \end{array}$ | $\begin{aligned} & 120 \\ & (44) \end{aligned}$ | $\begin{array}{r} 820 \\ (288) \end{array}$ | $\begin{aligned} & 146 \\ & (71) \end{aligned}$ |
| Saint John (Mactaquac) | $\begin{aligned} & 7046 \\ & (699) \end{aligned}$ | $\begin{aligned} & 4143 \\ & (487) \end{aligned}$ | $\begin{array}{r} 8000 \\ (2894) \end{array}$ | $\begin{aligned} & 3435 \\ & (344) \end{aligned}$ | $\begin{array}{r} 9191 \\ (1129) \end{array}$ | $\begin{aligned} & 2600 \\ & (670) \end{aligned}$ | $\begin{array}{r} 9587 \\ (1170) \end{array}$ | $\begin{aligned} & 4291 \\ & (437) \end{aligned}$ |
| St. Croix (Milltown) | $\begin{array}{r} 63 \\ (25) \end{array}$ | $\begin{aligned} & 257 \\ & (53) \end{aligned}$ | $\begin{aligned} & 195 \\ & (67) \end{aligned}$ | $\begin{aligned} & 177 \\ & (42) \end{aligned}$ | $\begin{array}{r} 102 \\ (9) \end{array}$ | $\begin{array}{r} 292 \\ (102) \end{array}$ | $\begin{aligned} & 116 \\ & \text { (37) } \end{aligned}$ | $\begin{aligned} & 115 \\ & (21) \end{aligned}$ |
| Tusket (Falls) ${ }^{\text {' }}$ | $138$ (71) | $34$ (8) | $\begin{array}{r} 851 \\ (735) \\ \hline \end{array}$ | $\begin{array}{r} 28 \\ (11) \\ \hline \end{array}$ | $\begin{array}{r} 427 \\ (348) \\ \hline \end{array}$ | $\begin{array}{r} 82 \\ (59) \end{array}$ | $\begin{array}{r} 410 \\ (314) \end{array}$ | $\begin{array}{r}76 \\ (65) \\ \hline\end{array}$ |

1. Incomplete trapping in all 4 years.

TABLE 7. Counts of grilse (1SW) and large salmon (MSW) at Mactaquac Dam, Saint John River system, 1970-89.

| Year | Number <br> of grilse | Number of <br> large salmon | Tolal |
| :---: | ---: | :---: | ---: |
| 1970 | 2,874 | 2,449 | 5,323 |
| 1971 | 1,592 | 2,235 | 3,827 |
| 1972 | 784 | 4,831 | 5,615 |
| 1973 | 1,854 | 2,367 | 4,221 |
| 1974 | 3,389 | 4,775 | 8,164 |
| 1975 | 5,725 | 6,200 | 11,925 |
| 1976 | 6,797 | 5,511 | 12,308 |
| 1977 | 3,507 | 7,247 | 10,754 |
| 1978 | 1,584 | 3,034 | 4,618 |
| 1979 | 6,234 | 1,993 | 8,227 |
| 1980 | 7,555 | 8,157 | 15,712 |
| 1981 | 4,571 | 2,441 | 7,012 |
| 1982 | 3,932 | 2,262 | 6,194 |
| 1983 | 3,623 | 1,712 | 5,335 |
| 1984 | 7,353 | 7,011 | 14,364 |
| 1985 | 5,331 | 6,391 | 11,722 |
| 1986 | 7,046 | 4,143 | 11,189 |
| 1987 | 8,000 | 3,530 | 11,530 |
| 1988 | 9,191 | 2,600 | 11,791 |
| 1989 | 9,587 | 4,291 | 13,878 |
|  |  |  |  |
| Mean $1984-88$ | 7,384 | 4,735 | 12,119 |

TABLE 8. Resident and non-resident Atlantic salmon angling license sales for New Brunswick (1972-89), Nova Scotia (1983-89) and Prince Edward Island (1983-89).

|  | New Brunswick' |  |  | Nova Scotia |  |  | Prince Edward Island ${ }^{2}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Resident | sident | Total | Resident | Non-resident | Total |  |
| 1972 | 8,557 | 3,540 | 12,097 |  |  |  |  |
| 1973 | 10,148 | 4,317 | 14,465 |  |  |  |  |
| 1974 | 11,174 | 4,480 | 15,654 |  |  |  |  |
| 1975 | 12,820 | 4,008 | 16,828 |  |  |  |  |
| 1976 | 14,809 | 3,948 | 18,757 |  |  |  |  |
| 1977 | 16,805 | 4,447 | 21,252 |  |  |  |  |
| 1978 | 16,718 | 4,423 | 21,141 |  |  |  |  |
| 1979 | 16,765 | 4,074 | 20,839 |  |  |  |  |
| 1980 | 16,266 | 4,367 | 20,633 |  |  |  |  |
| 1981 | 16,890 | 5,074 | 21,964 |  |  |  |  |
| 1982 | 17,950 | 4,585 | 22,535 |  |  |  |  |
| 1983 | 17,717 | 4,680 | 22,397 | 6,722 | 876 | 7,598 | 321 |
| 1984 | 12,637 | 3,482 | 16,119 | 5,029 | 761 | 5,790 | 68 |
| 1985 | 13,620 | 4,158 | 17,778 | 5,299 | 788 | 6,087 | 117 |
| 1986 | 14,884 | 4,867 | 19,751 | 5,898 | 857 | 6,755 | 279 |
| 1987 | 15,300 | 5,202 | 20,502 | 6,242 | 935 | 7,177 | 461 |
| 1988 | 16,099 | 5,767 | 21,866 | 6,764 | 1,263 | 8,027 | 719 |
| 1989 | 29,555 | 6,547 | $36,102{ }^{3}$ | 6,974 | 1,641 | 8,615 | 646 |

1. License sales figures obtained from N.B. Department of Natural Resources and Energy "FISHSYS" tables.
2. Resident and non-resident breakdown not available.
3. Large increase in 1989 due to change in licensing policy. (see footnote pg. 3)


Fig. 1. Mean monthly discharge, June to Septmeber, summed for 12 rivers in New Brunswick and Nova Scotia for the years 1982-89. (Rivers: Bartibog, Kennebecasis, Magaguadavic, Nashwaak, Northwest Miramichi, Restigouche, Southwest Miramichi, Gold, LaHave, Musquodoboit, Northeast Margaree, and St. Mary's.)
Source: Anonymous, 1982, 1983,.., 1989.


Figure 2. Catch per rod-day for New Brunswick, Nova Scotia, Prince Edward Island and the 3 provinces combined, 1970-1989.


Figure 3. Counts of one-sea-winter Atantic salmon at 4 counting facilities in the Maritime Provinces, 1986-1989.


Figure 4. Counts of multi-sea-winter Atlantic salmon at 4 counting facilities in the Maritime Provinces, 1986-1989.

NEW BRUNSWICK AND

## PRINCE EDWARD ISLAND

Table 9. Salmon angling season dates, New Brunswick and Prince Edward Island rivers, 1989.

| River | Area | Kelts | Brights |
| :---: | :---: | :---: | :---: |
| Alma |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Bartholomew * |  | closed | closed |
| Bartibog |  | 15 Apr - 15 May | 1 Jun-15 Oct |
| Big Salmon* | - upstream from and including WaltonDam Pool | 15 Apr - 15 May | 15 Jun-15 Sep |
|  | - downstream from Walton Dam Pool | 15 Apr - 15 May | 8 Jun-22 Oct |
| Black (Saint John Co.) |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Cains |  | 15 Apr - 15 May | 8 Jun-15 Oct |
| Canaan |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Coverdale |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Digdeguash |  | 15 Apr - 15 May | 15 Jun - 15 Oct |
| Dungarvon |  | 15 Apr - 15 May | 8 Jun-30 Sep |
|  | - above Underwood Brook | 15 Apr - 15 May | 8 Jun-15 Sep |
| Dunk (P.E.I.) * |  | No kelt fishery | 9 Jun-31 Oct |
| Hammond* | - upstream from and including French Village Bridge Pool | 15 Apr - 15 May | 15 Jun-15 Oct |
|  | - downstream from French Village Pool | 15 Apr - 15 May | 15 Jun-31 Oct |
| lrish |  | 15 Apr-15 May | 15 Jun - 15 Oct |
| Jacquet |  | 15 Apr - 15 May | 1 Jul-15 Oct |
| Kedgwick |  | No kelt fishery | 1 Jun-31 Aug |
| Kennebecasis |  | 15 Apr - 15 May | $15 \mathrm{Jun}-31$ Oct |
| Little Southwest Miramichi |  | 15 Apr - 15 May | 15 Jun-15 Oct |
|  |  | 15 Apr - 15 May | 8 Jun - 30 Sep |
|  | - above Catamaran Brook | 15 Apr - 15 May | 8 Jun-15 Sep |
| Magaguadavic |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Middle (Gloucester Co.) |  | 15 Apr - 15 May | 1 Jul-15 Oct |
| Midgell (P.E.I.) * |  | No kelt fishery | 9 Jun-31 Oct |
| Mill (P.E.I.) * |  | No kell tishery | 9 Jun-31 Oct |
| Morell (P.E.I.) * |  | No kelt dishery | 9 Jun-15 Oct |
| Mosher |  | 15 Apr-15 May | 15 Jun-15 Oct |
| Nashwaak* | - upstream from bridge at Stanley | 15 Apr - 15 May | 15 Jun-30 Sep |
|  | downstream from bridge at Stanley | 15 Apr-15 May | 15 Jun-15 Oct |
| Nepisiguit * |  | No kelt fishery | 1 Jun-7 Oct |
| Nerepis |  | 15 Apr - 15 May | 15 Jun - 15 Oct |
| New |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Northwest Miramichi * |  | 15 Apr - 15 May | 8 Jun - 30 Sep |
|  | - above Little River | 15 Apr - 15 May | 8 Jun-31 Aug |
| Oromocto |  | 15 Apr - 15 May | 15 Jun - 15 Oct |
| Patapedia |  | No kelt fishery | 1 Jun-31 Aug |
| Petitcodiac |  | 15 Apr - 15 May | 15 Aug-15 Oct |
| Pocologan |  | 15 Apr-15 May | 15 Jun-15 Oct |
| Point Wolfe * |  | closed | closed |
| Pollett |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Renous |  | 15 Apr-15 May | 8 Jun - 30 Sep |
|  | - above North Renous River | 15 Apr - 15 May | 8 Jun-15 Sep |
| Restigouche |  | No kelt fishery | 1 Jun - 31 Aug |
| Saint Croix |  | 15 Apr - 15 May | 15 Jun-15 Sep |
| Saint John * | - upstream from the Grafton Bridge in Woodstock | 15 Apr-15 May | 15 Jun - 30 Sep |
|  | - downstream from the Grafton Bridge in Woodstock | 15 Apr-15 May | 1 Jun-15 Oct |
| Salmon (Queens Co.) |  | 15 Apr - 15 May | 15 Jun - 15 Oct |
| Salmon (Victoria Co.) |  | 15 Apr - 15 May | 15 Jun-15 Oct |
| Sevogle |  | 15 Apr - 15 May | 8 Jun-30 Sep |
|  | - above Square Forks | 15 Apr - 15 May | 8 Jun-15 Sep |
| Southwest Miramichi |  | $15 \mathrm{Apr}-15 \mathrm{May}$ | 15 Jun-15 Oct |
|  |  | 15 Apr - 15 May | 8 Jun - 30 Sep |
|  | - Rocky Brook | $15 \mathrm{Apr}-15 \mathrm{May}$ | 1 Jun-31 Aug |
|  | - above McKiel Brook and tributaries above Cains River | 15 Apr - 15 May | 8 Jun-15 Sep |
| Tabusintac |  | 15 Apr - 15 May | 1 Jul - 22 Oct |
| Tetagouche |  | 15 Apr - 15 May | $1 \mathrm{Jul}-15 \mathrm{Oct}$ |
| Tobique * |  | 15 Apr - 15 May | 15 Jun-15 Sep |
| Tracadie |  | 15 Apr-15 May | 1 Jul-15 Oct |
| Upsalquitch |  | No kelt fishery | 1 Jun-31 Aug |
| Valleytield (P.E.I.) * |  | No kelt fishery | 9 Jun-31 Oct |
| Waweig |  | 15 Apr - 15 May | 15 Jun-15 Oct |

TABLE 10. New Brunswick and Prince Edward Island variation orders, fishing prohibitions and special seasons.

| Alma River | Closed to fishing in the Upper Salmon River (Alma River) from the highway bridge <br> at Alma to the boundary for the Fundy National Park from July 17 to September 22, <br> 1989. |
| :--- | :--- |
| Bartholomew River | Closed to fishing in those waters from its confluence with the Southwest Miramichi <br> River to the forks of the north and south branches, excluding its branches and <br> tributaries, from July 8 to December 31, 1989. |

Big Salmon River

Dunk River

Hammond River

Midgell River
Mill River
(1) Closed to fishing in those waters of the West Branch downstream from the Highway \#22 bridge and including Leard's Pond in the West Branch, and Hazelgreen Road in the East Branch and including the Main stream of the river, from May 9 to May 23, 1989.
(2) Closed to fishing, except by artificial fly, in those waters of the West Branch, upstream of a straight line drawn from grid reference 2340 3565, to grid reference 23453570 (known locally as McKay's Pool) and including Leard's Pond, from June 9 to October 1, 1989.
(3) Closed to fishing, except by artificial fly, in those waters of the West Branch, downstream from the Highway \#22 bridge and including Leard's Pond in the West Branch, and Hazelgreen Road in the East Branch and including the Main stream, from June 23 to June 26, 1989.
(4) Closed to fishing, except by artificial fly, in those waters upstream from a straight line drawn from grid reference 23453565 to grid reference 23453570 (known locally as McKay's Pool), the West Branch up to and including Leard's Pond and the East Branch below Hazelgreen Road, highway 329 from June 23 to October 1, 1989.
(5) Catch and release "only" season from October 1 to October 15, 1989.

TABLE 10. New Brunswick and Prince Edward Island variation orders, fishing prohibitions and special seasons. (continued)

## Nashwaak River

Point Wolfe River

Saint John River

Tobique River

Valleytield River
(1) Closed to fishing in those waters in York County locally known as Ross Pool, and extending from a point located 150 m downstream of the mouth of Porters Brook to a point located 30 m upstream of the mouth of Porters Brook from June 1 to December 31, 1989.
(2) Closed to fishing in those waters locally known as Big Basin Pool lying between a point at grid reference 49342893 and a point at grid reference 49522899 as shown on map Coldstream $21 \mathrm{~J} / 6$ of the National.Topographic.Series, scale 1:50,000, from June 15 to December 31, 1989.
(3) Closed to fishing in those waters of Young's Brook within 15 m of its confluence with the Nashwaak River from July 27 to December 31, 1989.
(4) Closed to fishing by means of hook, line and rod in those waters of the Nashwaak River and its tributaries upstream from its confluence with the Saint John River from July 27 to July 30, 1989.
(1) Closed to fishing in those waters from 100 m above to 100 m below the Nepisiguit trap counting fence from May 26 to December 31, 1989.
(2) Closed to fishing in those waters from the head of Papineau Falls pool downstream for a distance of 45 m , to a point as marked by a fishery officer from May 26 to October 8, 1989.

Closed to fishing in those waters from 100 m above to 100 m below the Miner's Bridge from June 1 to December 31, 1989.

Closed to salmon angling in those waters from western boundary of Fundy National Park upstream, to the mouth of Tabor Brook from July 17 to December 31, 1989.

Closed to fishing in those waters in Carleton County lying between the highway bridge at Grafton and the railroad bridge at Upper Woodstock from June 15 to December 31, 1989.
(1) Closed to fishing in those waters lying between a sign posted by a fishery officer at a point approximately 185 m downstream of a place locally known as the salmon dumping site at Gladwyn, and a sign posted by a fishery officer at a point approximately 90 m downstream of the mouth of Trout Brook from June 15 to December 31, 1989.
(2) Closed to fishing in those waters of the Campbell River (right hand branch of the Tobique River) beginning at the mouth of the Mamozekel River upstream to a point 200 m above the Tobique Salmon Enhancement Project holding fence from July 1 to December 31, 1989.
(1) Closed to fishing in those waters from its confluence with the Montague River to MacRaes Mill Dam on Highway \#206, from May 9 to May 16, 1989.
(2) Closed to fishing, except by artificial fly, in those waters from its confluence with the Montague River to MacReas Mill Dam on Highway \#206, from June 23 to June 26, 1989.

TABLE 11. Estimates of large salmon released by anglers on several New Brunswick rivers in 1989.'

|  | Number |
| :--- | ---: |
| River | 7 |
| Digdeguash | 67 |
| Jacquet | 528 |
| Kedgwick | 12 |
| Keswick | 497 |
| L.S.W. Miramichi | 50 |
| M.S.W. Miramichi ${ }^{2}$ | 149 |
| Magaguadavic | 214 |
| Nashwaak | 490 |
| Nepisiguit | 2 |
| Nerepis | 1 |
| New | 727 |
| N.W. Miramichi | 35 |
| Patapedia | 2363 |
| Restigouche | 20 |
| Saint Croix | 310 |
| Saint John ${ }^{3}$ | 33 |
| Sevogle | 32 |
| Tracadie | 515 |
| Upsalquitch | 11 |
| Waweig | 6063 |
| Total |  |
|  |  |

1. Estimates of released fish not available on other New Brunswick rivers.
2. Estimate of released fish for Carleton Co. only. Data on released fish elsewhere on the Main Southwest Miramichi not available.
3. Partial estimate only based on apparent grilse to salmon ratios in sport catch.
(P. Cronin, NBDNR, pers. comm.)

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989.

| Grilse |  | Large salmon |  | Total |  | Effort (rod-days) | Catch/effort (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

ALMA 127

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | :--- | :--- | :--- |
| September | 15 | 31 | 0 | 0 | 15 | 31 | 86 | 0.174 |
| October | 5 | 10 | 0 | 0 | 5 | 10 | 29 | 0.172 |
| Total | 20 | 41 | 0 | 0 | 20 | 41 | $115^{2}$ | 0.174 |

BARTIBOG 19
Kelts

| April | 450 | 510 | 0 | 0 | 450 | 510 | 220 | 2.045 |
| :--- | ---: | ---: | :--- | :--- | ---: | :--- | :--- | :--- |
| May | 250 | 284 | 0 | 0 | 250 | 284 | 135 | 1.852 |
| Total | 700 | 794 | 0 | 0 | 700 | 794 | 355 | 1.972 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| August | 8 | 11 | 0 | 0 | 8 | 11 | 60 | 0.133 |
| September | 40 | 54 | 0 | 0 | 40 | 54 | 215 | 0.186 |
| October | 120 | 163 | 0 | 0 | 120 | 163 | 300 | 0.400 |
| Total | 168 | 228 | 0 | 0 | 168 | 228 | 575 | 0.292 |

BIG SALMON 131

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 10 | 20 | 0 | 0 | 10 | 20 | 35 | 0.286 |
| July | 65 | 133 | 0 | 0 | 65 | 133 | 381 | 0.171 |
| August | 30 | 61 | 0 | 0 | 30 | 61 | 242 | 0.124 |
| September | 34 | 69 | 0 | 0 | 34 | 69 | 182 | 0.187 |
| October | 11 | 22 | 0 | 0 | 11 | 22 | 26 | 0.423 |
| Total | 150 | 306 | 0 | 0 | 150 | 306 | 866 | 0.173 |

CAINS 146
Kelts

| April | 70 | 95 | 0 | 0 | 70 | 95 | 65 | 1.077 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| May | 14 | 19 | 0 | 0 | 14 | 19 | 34 | 0.412 |
| Total | 84 | 114 | 0 | 0 | 84 | 114 | 99 | 0.848 |


| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 102 | 139 | 0 | 0 | 102 | 139 | 320 | 0.319 |
| August | 501 | 909 | 0 | 0 | 501 | 909 | 896 | 0.559 |
| September | 460 | 714 | 0 | 0 | 460 | 714 | 700 | 0.657 |
| October | 528 | 740 | 0 | 0 | 528 | 740 | 2032 | 0.260 |
| Total | 1591 | 2502 | 0 | 0 | 1591 | 2502 | 3948 | 0.403 |

1. Retained fish per rod-day.
2. CUPE for other southern New Brunswick rivers was used to estimate effort.

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | Effort (rod-days) | Catch/effort' (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

CANAAN 141

## Bright Fish

| June | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0.000 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 1 | 2 | 0 | 0 | 1 | 2 | 9 | 0.111 |
| August | 1 | 2 | 0 | 0 | 1 | 2 | 6 | 0.167 |
| September | 3 | 6 | 0 | 0 | 3 | 6 | 9 | 0.333 |
| October | 1 | 2 | 0 | 0 | 1 | 2 | 3 | 0.333 |
| Total | 6 | 12 | 0 | 0 | 6 | 12 | 32 | 0.188 |

DENNIS 139b
Bright Fish

| September | 4 | 8 | 0 | 0 | 4 | 8 | 33 | 0.121 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| October | 2 | 4 | 0 | 0 | 2 | 4 | 32 | 0.063 |
| Total | 6 | 12 | 0 | 0 | 6 | 12 | 65 | 0.092 |

DIGDEGUASH 139
Bright Fish

| July | 2 | 4 | 0 | 0 | 2 | 4 | 20 | 0.100 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| August | 3 | 6 | 0 | 0 | 3 | 6 | 40 | 0.075 |
| September | 5 | 10 | 0 | 0 | 5 | 10 | 50 | 0.100 |
| October | 5 | 10 | 0 | 0 | 5 | 10 | 25 | 0.200 |
| Total | 15 | 31 | 0 | 0 | 15 | 31 | 135 | 0.111 |

DUNGARVON 148

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 25 | 34 | 0 | 0 | 25 | 34 | 27 | 0.926 |
| May | 20 | 26 | 0 | 0 | 20 | 26 | 79 | 0.253 |
| Total | 45 | 60 | 0 | 0 | 45 | 60 | 106 | 0.425 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 36 | 54 | 0 | 0 | 36 | 54 | 197 | 0.183 |
| July | 140 | 181 | 0 | 0 | 140 | 181 | 663 | 0.211 |
| August | 159 | 281 | 0 | 0 | 159 | 281 | 532 | 0.299 |
| September | 199 | 304 | 0 | 0 | 199 | 304 | 604 | 0.329 |
| Total | 534 | 820 | 0 | 0 | 534 | 820 | 1996 | 0.268 |

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | Effort (rod-days) | Catch/effort (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt (kg) | Number | Wt(kg) | Number | Wt (kg) |  |  |

HAMMOND 133a
Bright Fish

| June | 3 | 6 | 0 | 0 | 3 | 6 | 70 | 0.043 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 16 | 33 | 0 | 0 | 16 | 33 | 225 | 0.071 |
| August | 21 | 43 | 0 | 0 | 21 | 43 | 268 | 0.078 |
| September | 46 | 94 | 0 | 0 | 46 | 94 | 451 | 0.102 |
| October | 64 | 131 | 0 | 0 | 64 | 131 | 395 | 0.162 |
| Total | 150 | 306 | 0 | 0 | 150 | 306 | 1409 | 0.106 |

JACQUET 6

Kelts

| April | 5 | 7 | 0 | 0 | 5 | 7 | 60 | 0.083 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| May | 8 | 11 | 0 | 0 | 8 | 11 | 105 | 0.076 |
| Total | 13 | 18 | 0 | 0 | 13 | 18 | 165 | 0.079 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish | 5 | 8 | 0 | 0 | 5 | 8 | 60 | 0.083 |
| July | 10 | 15 | 0 | 0 | 10 | 15 | 60 | 0.167 |
| August | 15 | 23 | 0 | 0 | 15 | 23 | 120 | 0.125 |
| September | 40 | 60 | 0 | 0 | 40 | 60 | 90 | 0.444 |
| October | 70 | 106 | 0 | 0 | 70 | 106 | 330 | 0.212 |

KEDGWICK 1

Bright Fish

| June | 11 | 18 | 0 | 0 | 11 | 18 | 278 | 0.040 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 123 | 167 | 0 | 0 | 123 | 167 | 537 | 0.229 |
| August | 73 | 132 | 0 | 0 | 73 | 132 | 451 | 0.162 |
| Total | 207 | 317 | 0 | 0 | 207 | 317 | 1266 | 0.164 |

KENNEBECASIS 134
Bright Fish

| June | 6 | 12 | 0 | 0 | 6 | 12 | 86 | 0.070 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 22 | 45 | 0 | 0 | 22 | 45 | 248 | 0.089 |
| August | 36 | 73 | 0 | 0 | 36 | 73 | 352 | 0.102 |
| September | 20 | 41 | 0 | 0 | 20 | 41 | 219 | 0.091 |
| October | 16 | 33 | 0 | 0 | 16 | 33 | 47 | 0.340 |
| Total | 100 | 204 | 0 | 0 | 100 | 204 | 952 | 0.105 |

1. Retained fish per rod-day.

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | Effort | Catch/eflort ${ }^{1}$ (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

## KESWICK 145

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0.000 |
| July | 5 | 10 | 0 | 0 | 5 | 10 | 20 | 0.250 |
| August | 5 | 10 | 0 | 0 | 5 | 10 | 25 | 0.200 |
| September | 10 | 20 | 0 | 0 | 10 | 20 | 50 | 0.200 |
| October | 5 | 10 | 0 | 0 | 5 | 10 | 30 | 0.167 |
| Total | 25 | 51 | 0 | 0 | 25 | 51 | 130 | 0.192 |

## LITTLE SOUTHWEST MIRAMICHI 150

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 187 | 254 | 0 | 0 | 187 | 254 | 125 | 1.496 |
| May | 101 | 138 | 0 | 0 | 101 | 138 | 347 | 0.291 |
| Total | 288 | 392 | 0 | 0 | 288 | 392 | 472 | 0.610 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 123 | 223 | 0 | 0 | 123 | 223 | 341 | 0.361 |
| July | 92 | 125 | 0 | 0 | 92 | 125 | 329 | 0.280 |
| August | 81 | 110 | 0 | 0 | 81 | 110 | 202 | 0.401 |
| September | 52 | 71 | 0 | 0 | 52 | 71 | 302 | 0.172 |
| Total | 348 | 529 | 0 | 0 | 348 | 529 | 1174 | 0.296 |

MAGAGUADAVIC 138
Bright Fish

| July | 4 | 8 | 0 | 0 | 4 | 8 | 90 | 0.044 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| August | 15 | 31 | 0 | 0 | 15 | 31 | 100 | 0.150 |
| September | 100 | 204 | 0 | 0 | 100 | 204 | 380 | 0.263 |
| October | 60 | 122 | 0 | 0 | 60 | 122 | 200 | 0.300 |
| Total | 179 | 365 | 0 | 0 | 179 | 365 | 770 | 0.232 |

MIDDLE(Gloucester) 9
Kells

| May | 25 | 45 | 0 | 0 | 25 | 45 | 80 | 0.313 |
| :--- | ---: | ---: | :--- | :--- | ---: | :--- | ---: | :--- |
| Bright Fish |  |  |  |  |  |  |  |  |
| July | 10 | 18 | 0 | 0 | 10 | 18 | 65 | 0.154 |
| August | 8 | 15 | 0 | 0 | 8 | 15 | 42 | 0.190 |
| September | 10 | 18 | 0 | 0 | 10 | 18 | 55 | 0.182 |
| October | 25 | 45 | 0 | 0 | 25 | 45 | 125 | 0.200 |
| Totai | 53 | 96 | 0 | 0 | 53 | 96 | 287 | 0.185 |

[^3]TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)


## MIDGELL 41

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | ---: | :--- |
| August | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0.000 |
| September | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 0.000 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0.000 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 107 | 0.000 |

MORELL 40

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 4 | 7 | 0 | 0 | 4 | 7 | 594 | 0.007 |
| July | 39 | 71 | 0 | 0 | 39 | 71 | 1829 | 0.021 |
| August | 28 | 51 | 0 | 0 | 28 | 51 | 868 | 0.032 |
| September | 96 | 174 | 0 | 0 | 96 | 174 | 960 | 0.100 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 255 | 0.000 |
| Total | 167 | 303 | 0 | 0 | 167 | 303 | 4506 | 0.037 |

NASHWAAK 144
Kelts

| April | N/A |  | 0 | 0 | N/A |  | 70 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| May | N/A |  | 0 | 0 | N/A |  | 120 |
| Total | N/A |  | 0 | 0 | N/A |  | 190 |
|  |  |  |  |  |  |  |  |
| Bright Fish |  | 39 | 0 | 0 | 19 | 39 | 580 |
| June | 19 | 131 | 0 | 0 | 64 | 131 | 960 |
| July | 64 | 194 | 0 | 0 | 95 | 194 | 660 |
| August | 95 | 0 | 0 | 200 | 408 | 990 | 0.033 |
| September | 200 | 408 | 0 | 0 | 0.202 |  |  |
| October | 70 | 143 | 0 | 0 | 70 | 143 | 350 |
| Total | 448 | 914 | 0 | 0 | 448 | 914 | 3540 |

NEPISIGUIT 11
Bright Fish

| June | 15 | 27 | 0 | 0 | 15 | 27 | 400 | 0.038 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 50 | 90 | 0 | 0 | 50 | 90 | 500 | 0.100 |
| August | 50 | 90 | 0 | 0 | 50 | 90 | 400 | 0.125 |
| September | 385 | 700 | 0 | 0 | 385 | 700 | 2000 | 0.193 |
| October | 100 | 180 | 0 | 0 | 100 | 180 | 700 | 0.143 |
| Total | 600 | 1087 | 0 | 0 | 600 | 1087 | 4000 | 0.150 |

$\mathrm{N} / \mathrm{A}=$ not available

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | Effort (rod-days) | Catch/effort ${ }^{1}$ (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

NEREPIS 135a
Bright Fish

| August | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0.000 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| September | 4 | 8 | 0 | 0 | 4 | 8 | 100 | 0.040 |
| October | 4 | 8 | 0 | 0 | 4 | 8 | 120 | 0.033 |
| Total | 8 | 16 | 0 | 0 | 8 | 16 | 270 | 0.030 |

NEW 136
Bright Fish

| August | 3 | 6 | 0 | 0 | 3 | 6 | 10 | 0.300 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

NORTHWEST MIRAMICHI 152

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 418 | 569 | 0 | 0 | 418 | 569 | 111 | 3.766 |
| May | 651 | 886 | 0 | 0 | 651 | 886 | 409 | 1.592 |
| Total | 1069 | 1455 | 0 | 0 | 1069 | 1455 | 520 | 2.056 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 53 | 72 | 0 | 0 | 53 | 72 | 813 | 0.065 |
| July | 57 | 78 | 0 | 0 | 57 | 78 | 817 | 0.070 |
| August | 46 | 63 | 0 | 0 | 46 | 63 | 682 | 0.067 |
| September | 57 | 78 | 0 | 0 | 57 | 78 | 518 | 0.110 |
| Total | 213 | 291 | 0 | 0 | 213 | 291 | 2830 | 0.075 |

## OROMOCTO 142

Bright Fish

| August | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0.000 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| September | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0.000 |

PATAPEDIA 2a
Bright Fish

| June | 5 | 9 | 0 | 0 | 5 | 9 | 43 | 0.116 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 25 | 45 | 0 | 0 | 25 | 45 | 106 | 0.236 |
| August | 1 | 2 | 0 | 0 | 1 | 2 | 62 | 0.016 |
| Total | 31 | 56 | 0 | 0 | 31 | 56 | 211 | 0.147 |

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Isiand, 1989. (continued)


POCOLOGAN 137
Bright Fish

| August | 2 | 4 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

RENOUS 149

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| April | 109 | 150 | 0 | 0 | 109 | 150 | 241 | 0.452 |
| May | 73 | 106 | 0 | 0 | 73 | 106 | 252 | 0.290 |
| Total | 182 | 256 | 0 | 0 | 182 | 256 | 493 | 0.369 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 124 | 216 | 0 | 0 | 124 | 216 | 454 | 0.273 |
| July | 493 | 748 | 0 | 0 | 493 | 748 | 1883 | 0.262 |
| August | 505 | 894 | 0 | 0 | 505 | 894 | 1159 | 0.436 |
| September | 690 | 1084 | 0 | 0 | 690 | 1084 | 1612 | 0.428 |
| Total | 1812 | 2942 | 0 | 0 | 1812 | 2942 | 5108 | 0.355 |

RESTIGOUCHE 2
Bright Fish

| June | 87 | 151 | 0 | 0 | 87 | 151 | 1697 | 0.051 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 1119 | 2031 | 0 | 0 | 1119 | 2031 | 2623 | 0.427 |
| August | 571 | 986 | 0 | 0 | 571 | 986 | 1784 | 0.320 |
| Total | 1777 | 3168 | 0 | 0 | 1777 | 3168 | 6104 | 0.291 |

SAINT CROIX (CHARLOTTE) 140
Bright Fish

| June | 7 | 13 | 0 | 0 | 7 | 13 | 50 | 0.140 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 15 | 30 | 0 | 0 | 15 | 30 | 340 | 0.044 |
| August | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0.000 |
| September | 3 | 6 | 0 | 0 | 3 | 6 | 19 | 0.158 |
| Total | 25 | 49 | 0 | 0 | 25 | 49 | 450 | 0.056 |

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | Effort | Catch/effort' <br> (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

SAINT JOHN 135

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 97 | 198 | 0 | 0 | 97 | 198 | 1454 | 0.067 |
| July | 670 | 1367 | 0 | 0 | 670 | 1367 | 3761 | 0.178 |
| August | 205 | 418 | 0 | 0 | 205 | 418 | 1710 | 0.120 |
| September | 97 | 198 | 0 | 0 | 97 | 198 | 1454 | 0.067 |
| October | 11 | 22 | 0 | 0 | 11 | 22 | 171 | 0.064 |
| Total | 1080 | 2203 | 0 | 0 | 1080 | 2203 | 8550 | 0.126 |

## SALMON (VICTORIA CO.) 154

Bright Fish

| June | 1 | 2 | 0 | 0 | 1 | 2 | 12 | 0.083 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 72 | 147 | 0 | 0 | 72 | 147 | 864 | 0.083 |
| August | 11 | 22 | 0 | 0 | 11 | 22 | 132 | 0.083 |
| September | 16 | 33 | 0 | 0 | 16 | 33 | 192 | 0.083 |
| Total | 100 | 204 | 0 | 0 | 100 | 204 | 1200 | 0.083 |

SALMON (QUEENS CO.) 143
Bright Fish

| July | 22 | 45 | 0 | 0 | 22 | 45 | 126 | 0.175 |
| :--- | :---: | :---: | :--- | :--- | :--- | ---: | ---: | ---: |
| August | 30 | 61 | 0 | 0 | 30 | 61 | 173 | 0.173 |
| September | 11 | 22 | 0 | 0 | 11 | 22 | 65 | 0.169 |
| October | 12 | 24 | 0 | 0 | 12 | 24 | 69 | 0.174 |
| Total | 75 | 153 | 0 | 0 | 75 | 153 | $433^{2}$ | 0.173 |

SEVOGLE 151

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| June | 29 | 53 | 0 | 0 | 29 | 53 | 283 | 0.102 |
| July | 34 | 46 | 0 | 0 | 34 | 46 | 247 | 0.138 |
| August | 22 | 30 | 0 | 0 | 22 | 30 | 222 | 0.099 |
| September | 18 | 24 | 0 | 0 | 18 | 24 | 185 | 0.097 |
| Total | 103 | 153 | 0 | 0 | 103 | 153 | 937 | 0.110 |

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | Effort (rod-days) | Catch/effort ${ }^{1}$ (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

SOUTHWEST MIRAMICHI 20

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 3267 | 4332 | 0 | 0 | 3267 | 4332 | 3592 | 0.910 |
| May | 884 | 1026 | 0 | 0 | 884 | 1026 | 2037 | 0.434 |
| Total | 4151 | 5358 | 0 | 0 | 4151 | 5358 | 5629 | 0.737 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 389 | 611 | 0 | 0 | 389 | 611 | 814 | 0.478 |
| July | 1618 | 2411 | 0 | 0 | 1618 | 2411 | 4887 | 0.331 |
| August | 1375 | 2495 | 0 | 0 | 1375 | 2495 | 3939 | 0.349 |
| September | 4682 | 8239 | 0 | 0 | 4682 | 8239 | 5478 | 0.855 |
| Total | 8064 | 13756 | 0 | 0 | 8064 | 13756 | 15118 | 0.533 |

TABUSINTAC 18
Kelts

| April | 452 | 564 | 0 | 0 | 452 | 564 | 935 | 0.483 |
| :--- | ---: | ---: | :--- | :--- | :--- | :--- | ---: | ---: |
| May | 110 | 150 | 0 | 0 | 110 | 150 | 252 | 0.437 |
| Total | 562 | 714 | 0 | 0 | 562 | 714 | 1187 | 0.473 |

Bright Fish

| July | 4 | 7 | 0 | 0 | 4 | 7 | 40 | 0.100 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| August | 12 | 19 | 0 | 0 | 12 | 19 | 60 | 0.200 |
| September | 65 | 73 | 0 | 0 | 65 | 73 | 260 | 0.250 |
| October | 57 | 103 | 0 | 0 | 57 | 103 | 291 | 0.196 |
| Total | 138 | 202 | 0 | 0 | 138 | 202 | 651 | 0.212 |

TETAGOUCHE 8
Kelts

| May | 10 | 18 | 0 | 0 | 10 | 18 | 65 | 0.154 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| Bright Fish |  |  |  |  |  |  |  |  |
| July | 10 | 18 | 0 | 0 | 10 | 18 | 65 | 0.154 |
| August | 9 | 16 | 0 | 0 | 9 | 16 | 45 | 0.200 |
| September | 10 | 18 | 0 | 0 | 10 | 18 | 55 | 0.182 |
| October | 25 | 45 | 0 | 0 | 25 | 45 | 125 | 0.200 |
| Total | 54 | 97 | 0 | 0 | 54 | 97 | 290 | 0.186 |

TABLE 12. Sport catch by river for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse |  | Large salmon |  | Total |  | $\begin{gathered} \text { Effort } \\ \text { (rod-days) } \end{gathered}$ | Catch/effort ${ }^{1}$ (fish/rod-day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Wt(kg) | Number | Wt(kg) | Number | Wt(kg) |  |  |

TOBIQUE 153

| Bright Fish |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: |
| June | 16 | 33 | 0 | 0 | 16 | 33 | 511 |
| July | 670 | 1367 | 0 | 0 | 670 | 1367 | 5985 |
| August | 134 | 273 | 0 | 0 | 134 | 273 | 657 |
| September | 17 | 35 | 0 | 0 | 17 | 35 | 0.112 |
| Total | 837 | 1707 | 0 | 0 | 837 | 1707 | 7299 |

TRACADIE 17

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 2 | 5 | 0 | 0 | 2 | 5 | 41 | 0.049 |
| Bright Fish |  |  |  |  |  |  |  |  |
| July | 5 | 9 | 0 | 0 | 5 | 9 | 33 | 0.152 |
| August | 8 | 16 | 0 | 0 | 8 | 16 | 91 | 0.088 |
| September | 6 | 11 | 0 | 0 | 6 | 11 | 39 | 0.154 |
| October | 5 | 11 | 0 | 0 | 5 | 11 | 57 | 0.088 |
| Total | 24 | 47 | 0 | 0 | 24 | 47 | 220 | 0.109 |

UPSALQUITCH 3
Bright Fish

| June | 63 | 109 | 0 | 0 | 63 | 109 | 282 | 0.223 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 505 | 916 | 0 | 0 | 505 | 916 | 915 | 0.552 |
| August | 268 | 461 | 0 | 0 | 268 | 461 | 607 | 0.442 |
| Total | 836 | 1486 | 0 | 0 | 836 | 1486 | 1804 | 0.463 |

## WAWEIG 139a

Bright Fish
$\begin{array}{lllllllll}\text { September } & 10 & 20 & 0 & 0 & 10 & 20 & 175 & 0.057\end{array}$

TABLE 13. Sport catch by river system for New Brunswick and Prince Edward Island, 1989.
$\frac{\text { Grilse }}{\text { Number }} \mathrm{Wt}(\mathrm{kg})$

Miramichi River System

| Kelts |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April | 4076 | 5434 | 0 | 0 | 4076 | 5434 | 4161 | 0.980 |
| May | 1743 | 2201 | 0 | 0 | 1743 | 2201 | 3158 | 0.552 |
| Total | 5819 | 7635 | 0 | 0 | 5819 | 7635 | 7319 | 0.795 |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 754 | 1229 | 0 | 0 | 754 | 1229 | 2902 | 0.260 |
| July | 2536 | 3728 | 0 | 0 | 2536 | 3728 | 9146 | 0.277 |
| August | 2689 | 4782 | 0 | 0 | 2689 | 4782 | 7632 | 0.352 |
| September | 6158 | 10514 | 0 | 0 | 6158 | 10514 | 9399 | 0.655 |
| October | 528 | 740 | 0 | 0 | 528 | 740 | 2032 | 0.260 |
| Total | 12665 | 20993 | 0 | 0 | 12665 | 20993 | 31111 | 0.407 |

Restigouche River System

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 166 | 287 | 0 | 0 | 166 | 287 | 2300 | 0.072 |
| July | 1772 | 3159 | 0 | 0 | 1772 | 3159 | 4181 | 0.424 |
| August | 913 | 1581 | 0 | 0 | 913 | 1581 | 2904 | 0.314 |
| Total | 2851 | 5027 | 0 | 0 | 2851 | 5027 | 9385 | 0.304 |

Saint John River System

| Kelts |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April | N/A |  | 0 | 0 | N/A |  | 70 |  |
| May | N/A |  | 0 | 0 | N/A |  | 120 |  |
| Total | N/A |  | 0 | 0 | N/A |  | 190 |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 142 | 290 | 0 | 0 | 142 | 290 | 2723 | 0.052 |
| July | 1542 | 3146 | 0 | 0 | 1542 | 3146 | 12198 | 0.126 |
| August | 538 | 1098 | 0 | 0 | 538 | 1098 | 4043 | 0.133 |
| September | 424 | 865 | 0 | 0 | 424 | 865 | 3696 | 0.115 |
| October | 183 | 373 | 0 | 0 | 183 | 373 | 1205 | 0.152 |
| Total | 2829 | 5771 | 0 | 0 | 2829 | 5771 | 23865 | 0.119 |

TABLE 14. Sport cach by district for New Brunswick and Prince Edward Island, 1989.

$\frac{\text { Grilse }}{\frac{\text { Large salmon }}{\text { Number } \mathrm{Wt}(\mathrm{kg})} \frac{\text { Total }}{\text { Number } \mathrm{Wt}(\mathrm{kg})} \frac{$|  Effort  |
| :---: |}{|  Catch/effort ${ }^{1}$ |
| :---: |} |  Number  $\mathrm{Wt}(\mathrm{kg})$ |
| :---: |
|  (rod-days)  |
|  (fish/rod-day)  |}

District 48

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 107 | 218 | 0 | 0 | 107 | 218 | 1489 | 0.072 |
| July | 735 | 1499 | 0 | 0 | 735 | 1499 | 4142 | 0.177 |
| August | 235 | 479 | 0 | 0 | 235 | 479 | 1952 | 0.120 |
| September | 131 | 267 | 0 | 0 | 131 | 267 | 1636 | 0.080 |
| October | 22 | 45 | 0 | 0 | 22 | 45 | 197 | 0.112 |
| Total | 1230 | 2509 | 0 | 0 | 1230 | 2509 | 9416 | 0.131 |

District 52
Bright Fish

| June | 7 | 13 | 0 | 0 | 7 | 13 | 50 | 0.140 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 21 | 42 | 0 | 0 | 21 | 42 | 450 | 0.047 |
| August | 18 | 37 | 0 | 0 | 18 | 37 | 181 | 0.099 |
| September | 122 | 249 | 0 | 0 | 122 | 249 | 657 | 0.186 |
| October | 67 | 137 | 0 | 0 | 67 | 137 | 257 | 0.261 |
| Total. | 235 | 477 | 0 | 0 | 235 | 477 | 1595 | 0.147 |

District 53
Bright Fish

| August | 5 | 10 | 0 | 0 | 5 | 10 | 30 | 0.167 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

District 55

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| June | 9 | 18 | 0 | 0 | 9 | 18 | 156 | 0.058 |
| July | 38 | 78 | 0 | 0 | 38 | 78 | 473 | 0.080 |
| August | 57 | 116 | 0 | 0 | 57 | 116 | 670 | 0.085 |
| September | 70 | 143 | 0 | 0 | 70 | 143 | 770 | 0.091 |
| October | 84 | 171 | 0 | 0 | 84 | 171 | 562 | 0.149 |
| Total | 258 | 526 | 0 | 0 | 258 | 526 | 2631 | 0.098 |

District 56
Bright Fish

| June | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0.000 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 23 | 47 | 0 | 0 | 23 | 47 | 135 | 0.170 |
| August | 31 | 63 | 0 | 0 | 31 | 63 | 179 | 0.173 |
| September | 14 | 29 | 0 | 0 | 14 | 29 | 74 | 0.189 |
| October | 13 | 27 | 0 | 0 | 13 | 27 | 72 | 0.181 |
| Total | 81 | 165 | 0 | 0 | 81 | 165 | 465 | 0.174 |

1. Retained fish per rod-day.

TABLE 14. Sport cach by district for New Brunswick and Prince Edward Island, 1989. (continued)

$\frac{\text { Grilse }}{\frac{\text { Number } W \mathrm{Wl}(\mathrm{kg})}{} \frac{\text { Large salmon }}{\text { Number } W \mathrm{Wt}(\mathrm{kg})} \frac{\text { Total }}{\text { Number }} \mathrm{Wt}(\mathrm{kg})}$| Effort |
| :---: |
| (rod-days) | | Catch/effort ${ }^{1}$ |
| :---: |
| (fish/rod-day) |

District 57

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| August | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0.000 |
| September | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0.000 |

District 58

| Kelts |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April | N/A |  | 0 | 0 | N/A |  | 70 |  |
| May | N/A |  | 0 | 0 | N/A |  | 120 |  |
| Total | N/A |  | 0 | 0 | N/A |  | 190 |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 19 | 39 | 0 | 0 | 19 | 39 | 585 | 0.032 |
| July | 69 | 141 | 0 | 0 | 69 | 141 | 980 | 0.070 |
| August | 100 | 204 | 0 | 0 | 100 | 204 | 685 | 0.146 |
| September | 210 | 428 | 0 | 0 | 210 | 428 | 1040 | 0.202 |
| October | 75 | 153 | 0 | 0 | 75 | 153 | 380 | 0.197 |
| Total | 473 | 965 | 0 | 0 | 473 | 965 | 3670 | 0.129 |

District 60
Bright Fish

| June | 17 | 35 | 0 | 0 | 17 | 35 | 523 | 0.033 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 742 | 1514 | 0 | 0 | 742 | 1514 | 6849 | 0.108 |
| August | 145 | 296 | 0 | 0 | 145 | 296 | 789 | 0.184 |
| September | 33 | 67 | 0 | 0 | 33 | 67 | 338 | 0.098 |
| Total | 937 | 1911 | 0 | 0 | 937 | 1911 | 8499 | 0.110 |

1. Retained fish per rod-day.
$\mathrm{N} / \mathrm{A}=$ not available

TABLE 14. Sport cach by district for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse | Large salmon | Total | Effort | Catch/effort ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Number Wt(kg) |  | Number Wt(kg) | (rod-days) |  |

## District 63

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| April | 5 | 7 | 0 | 0 | 5 | 7 | 60 | 0.083 |
| May | 8 | 11 | 0 | 0 | 8 | 11 | 105 | 0.076 |
| Total | 13 | 18 | 0 | 0 | 13 | 18 | 165 | 0.079 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 166 | 287 | 0 | 0 | 166 | 287 | 2300 | 0.072 |
| July | 1777 | 3167 | 0 | 0 | 1777 | 3167 | 4241 | 0.419 |
| August | 923 | 1596 | 0 | 0 | 923 | 1596 | 2964 | 0.311 |
| September | 15 | 23 | 0 | 0 | 15 | 23 | 120 | 0.125 |
| October | 40 | 60 | 0 | 0 | 40 | 60 | 90 | 0.444 |
| Total | 2921 | 5133 | 0 | 0 | 2921 | 5133 | 9715 | 0.301 |

District 64

| Kelts |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| May | 35 | 63 | 0 | 0 | 35 | 63 | 145 | 0.241 |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 15 | 27 | 0 | 0 | 15 | 27 | 400 | 0.038 |
| July | 70 | 126 | 0 | 0 | 70 | 126 | 630 | 0.111 |
| August | 67 | 121 | 0 | 0 | 67 | 121 | 487 | 0.138 |
| September | 405 | 736 | 0 | 0 | 405 | 736 | 2110 | 0.192 |
| October | 150 | 270 | 0 | 0 | 150 | 270 | 950 | 0.158 |
| Total | 707 | 1280 | 0 | 0 | 707 | 1280 | 4577 | 0.154 |

District 68
Kelts

| April | 2 | 5 | 0 | 0 | 2 | 5 | 41 | 0.049 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Bright Fish |  |  |  |  |  |  |  |  |
| July | 5 | 9 | 0 | 0 | 5 | 9 | 33 | 0.152 |
| August | 8 | 16 | 0 | 0 | 8 | 16 | 91 | 0.088 |
| September | 6 | 11 | 0 | 0 | 6 | 11 | 39 | 0.154 |
| October | 5 | 11 | 0 | 0 | 5 | 11 | 57 | 0.088 |
| Total | 24 | 47 | 0 | 0 | 24 | 47 | 220 | 0.109 |

TABLE 14. Sport cach by district for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse | Large salmon | Total | Effort | Catch/effort ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Number Wt(kg) | Number Wt(kg) | Number Wt(kg) | (rod-days) | (fish/rod-day) |

District 70

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 452 | 564 | 0 | 0 | 452 | 564 | 935 | 0.483 |
| May | 110 | 150 | 0 | 0 | 110 | 150 | 252 | 0.437 |
| Total | 562 | 714 | 0 | 0 | 562 | 714 | 1187 | 0.473 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| July | 4 | 7 | 0 | 0 | 4 | 7 | 40 | 0.100 |
| August | 12 | 19 | 0 | 0 | 12 | 19 | 60 | 0.200 |
| September | 65 | 73 | 0 | 0 | 65 | 73 | 260 | 0.250 |
| October | 57 | 103 | 0 | 0 | 57 | 103 | 291 | 0.196 |
| Total | 138 | 202 | 0 | 0 | 138 | 202 | 651 | 0.212 |

District 71

| Keits |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| April | 450 | 510 | 0 | 0 | 450 | 510 | 220 | 2.045 |
| May | 250 | 284 | 0 | 0 | 250 | 284 | 135 | 1.852 |
| Total | 700 | 794 | 0 | 0 | 700 | 794 | 355 | 1.972 |

Bright Fish

| August | 8 | 11 | 0 | 0 | 8 | 11 | 60 | 0.133 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| September | 40 | 54 | 0 | 0 | 40 | 54 | 215 | 0.186 |
| October | 120 | 163 | 0 | 0 | 120 | 163 | 300 | 0.400 |
| Total | 168 | 228 | 0 | 0 | 168 | 228 | 575 | 0.292 |

District 72

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| April | 4076 | 5434 | 0 | 0 | 4076 | 5434 | 4161 | 0.980 |
| May | 1743 | 2201 | 0 | 0 | 1743 | 2201 | 3158 | 0.552 |
| Total | 5819 | 7635 | 0 | 0 | 5819 | 7635 | 7319 | 0.795 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 754 | 1229 | 0 | 0 | 754 | 1229 | 2902 | 0.260 |
| July | 2536 | 3728 | 0 | 0 | 2536 | 3728 | 9146 | 0.277 |
| August | 2689 | 4782 | 0 | 0 | 2689 | 4782 | 7632 | 0.352 |
| September | 6158 | 10514 | 0 | 0 | 6158 | 10514 | 9399 | 0.655 |
| October | 528 | 740 | 0 | 0 | 528 | 740 | 2032 | 0.260 |
| Total | 12665 | 20993 | 0 | 0 | 12665 | 20993 | 31111 | 0.407 |

1. Retained fish per rod-day.

TABLE 14. Sport cach by district for New Brunswick and Prince Edward Island, 1989. (continued)

| Grilse | Large salmon | Total | Effort | Catch/effort ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number Wt(kg) | (rod-days) |  |

District 79
Bright Fish

| September | 15 | 31 | 0 | 0 | 15 | 31 | 86 | 0.174 |
| :--- | ---: | :--- | :--- | :--- | ---: | ---: | ---: | ---: |
| October | 5 | 10 | 0 | 0 | 5 | 10 | 29 | 0.172 |
| Total | 20 | 41 | 0 | 0 | 20 | 41 | 115 | 0.174 |

District 88
Bright Fish

| June | 4 | 7 | 0 | 0 | 4 | 7 | 594 | 0.007 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 39 | 71 | 0 | 0 | 39 | 71 | 1829 | 0.021 |
| August | 28 | 51 | 0 | 0 | 28 | 51 | 880 | 0.032 |
| September | 96 | 174 | 0 | 0 | 96 | 174 | 995 | 0.096 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 0.000 |
| Total | 167 | 303 | 0 | 0 | 167 | 303 | 4613 | 0.036 |

1. Retained fish per rod-day.

TABLE 15. Sport catch by county for New Brunswick and Prince Edward Island, 1989.


Charlotte Co., N.B.
Bright Fish

| June | 7 | 13 | 0 | 0 | 7 | 13 | 50 | 0.140 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 21 | 42 | 0 | 0 | 21 | 42 | 450 | 0.047 |
| August | 23 | 47 | 0 | 0 | 23 | 47 | 211 | 0.109 |
| September | 122 | 249 | 0 | 0 | 122 | 249 | 657 | 0.186 |
| October | 67 | 137 | 0 | 0 | 67 | 137 | 257 | 0.261 |
| Total | 240 | 488 | 0 | 0 | 240 | 488 | 1625 | 0.148 |

TABLE 15. Sport catch by county for New Brunswick and Prince Edward Island, 1989. (continued)


Gloucester Co., N.B.

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 2 | 5 | 0 | 0 | 2 | 5 | 41 | 0.049 |
| May | 35 | 63 | 0 | 0 | 35 | 63 | 145 | 0.241 |
| Total | 37 | 68 | 0 | 0 | 37 | 68 | 186 | 0.199 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 15 | 27 | 0 | 0 | 15 | 27 | 400 | 0.038 |
| July | 75 | 135 | 0 | 0 | 75 | 135 | 663 | 0.113 |
| August | 75 | 137 | 0 | 0 | 75 | 137 | 578 | 0.130 |
| September | 411 | 747 | 0 | 0 | 411 | 747 | 2149 | 0.191 |
| October | 155 | 281 | 0 | 0 | 155 | 281 | 1007 | 0.154 |
| Total | 731 | 1327 | 0 | 0 | 731 | 1327 | 4797 | 0.152 |

Kings Co., N.B.
Bright Fish

| June | 9 | 18 | 0 | 0 | 9 | 18 | 156 | 0.058 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| July | 38 | 78 | 0 | 0 | 38 | 78 | 473 | 0.080 |
| August | 57 | 116 | 0 | 0 | 57 | 116 | 670 | 0.085 |
| September | 70 | 143 | 0 | 0 | 70 | 143 | 770 | 0.091 |
| October | 84 | 171 | 0 | 0 | 84 | 171 | 562 | 0.149 |
| Total | 258 | 526 | 0 | 0 | 258 | 526 | 2631 | 0.098 |

Northumberland Co., N.B.

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | :--- | :--- | :--- |
| April | 4847 | 6336 | 0 | 0 | 4847 | 6336 | 5065 | 0.957 |
| May | 2068 | 2593 | 0 | 0 | 2068 | 2593 | 3402 | 0.608 |
| Total | 6915 | 8929 | 0 | 0 | 6915 | 8929 | 8467 | 0.817 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 618 | 1013 | 0 | 0 | 618 | 1013 | 2650 | 0.233 |
| July | 1974 | 2888 | 0 | 0 | 1974 | 2888 | 7671 | 0.257 |
| August | 2228 | 3939 | 0 | 0 | 2228 | 3939 | 6531 | 0.341 |
| September | 4624 | 7742 | 0 | 0 | 4624 | 7742 | 8176 | 0.566 |
| October | 705 | 1006 | 0 | 0 | 705 | 1006 | 2623 | 0.269 |
| Total | 10149 | 16588 | 0 | 0 | 10149 | 16588 | 27651 | 0.367 |

TABLE 15. Sport catch by county for New Brunswick and Prince Edward Island, 1989. (continued)


Queens Co., N.B.

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| June | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0.000 |
| July | 23 | 47 | 0 | 0 | 23 | 47 | 135 | 0.170 |
| August | 31 | 63 | 0 | 0 | 31 | 63 | 179 | 0.173 |
| September | 14 | 29 | 0 | 0 | 14 | 29 | 74 | 0.189 |
| October | 13 | 27 | 0 | 0 | 13 | 27 | 72 | 0.181 |
| Total | 81 | 165 | 0 | 0 | 81 | 165 | 465 | 0.174 |

Restigouche Co., N.B.
Kelts

| April | 5 | 7 | 0 | 0 | 5 | 7 | 60 | 0.083 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| May | 8 | 11 | 0 | 0 | 8 | 11 | 105 | 0.076 |
| Total | 13 | 18 | 0 | 0 | 13 | 18 | 165 | 0.079 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish | 166 | 287 | 0 | 0 | 166 | 287 | 2300 | 0.072 |
| June | 1777 | 3167 | 0 | 0 | 1777 | 3167 | 4241 | 0.419 |
| July | 923 | 1596 | 0 | 0 | 923 | 1596 | 2964 | 0.311 |
| August | 15 | 23 | 0 | 0 | 15 | 23 | 120 | 0.125 |
| September | 40 | 60 | 0 | 0 | 40 | 60 | 90 | 0.444 |
| October | 4921 | 5133 | 0 | 0 | 2921 | 5133 | 9715 | 0.301 |

Saint John Co., N.B.
Bright Fish

|  | 10 | 20 | 0 | 0 | 10 | 20 | 35 | 0.286 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| July | 65 | 133 | 0 | 0 | 65 | 133 | 381 | 0.171 |
| August | 30 | 61 | 0 | 0 | 30 | 61 | 242 | 0.124 |
| September | 34 | 69 | 0 | 0 | 34 | 69 | 182 | 0.187 |
| October | 11 | 22 | 0 | 0 | 11 | 22 | 26 | 0.423 |
| Total | 150 | 306 | 0 | 0 | 150 | 306 | 866 | 0.173 |

Sunbury Co., N.B.
Bright Fish

| August | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0.000 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| September | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0.000 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0.000 |

TABLE 15. Sport catch by county for New Brunswick and Prince Edward Island, 1989. (continued)
$\frac{\text { Grilse }}{\frac{\text { Number }}{} \mathrm{Wt}(\mathrm{kg})} \frac{\text { Large salmon }}{\text { Number }} \mathrm{Wt}(\mathrm{kg})$

Victoria Co., N.B.

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 17 | 35 | 0 | 0 | 17 | 35 | 523 | 0.033 |
| July | 742 | 1514 | 0 | 0 | 742 | 1514 | 6849 | 0.108 |
| August | 145 | 296 | 0 | 0 | 145 | 296 | 789 | 0.184 |
| September | 33 | 67 | 0 | 0 | 33 | 67 | 338 | 0.098 |
| Total | 937 | 1911 | 0 | 0 | 937 | 1911 | 8499 | 0.110 |

York Co., N.B.
Kelts

| April | 121 | 159 | 0 | 0 | 121 | 159 | 303 | 0.399 |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| May | 32 | 38 | 0 | 0 | 32 | 38 | 253 | 0.126 |
| Total | 153 | 197 | 0 | 0 | 153 | 197 | 556 | 0.275 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 212 | 379 | 0 | 0 | 212 | 379 | 2044 | 0.104 |
| July | 1061 | 1897 | 0 | 0 | 1061 | 1897 | 5408 | 0.196 |
| August | 668 | 1269 | 0 | 0 | 668 | 1269 | 3103 | 0.215 |
| September | 1706 | 3093 | 0 | 0 | 1706 | 3093 | 3597 | 0.474 |
| October | 85 | 173 | 0 | 0 | 85 | 173 | 518 | 0.164 |
| Total | 3732 | 6811 | 0 | 0 | 3732 | 6811 | 14670 | 0.254 |

Kings Co., P.E.I.

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 4 | 7 | 0 | 0 | 4 | 7 | 594 | 0.007 |
| July | 39 | 71 | 0 | 0 | 39 | 71 | 1829 | 0.021 |
| August | 28 | 51 | 0 | 0 | 28 | 51 | 880 | 0.032 |
| September | 96 | 174 | 0 | 0 | 96 | 174 | 995 | 0.096 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 0.000 |
| Total | 167 | 303 | 0 | 0 | 167 | 303 | 4613 | 0.036 |

TABLE 16. Sport catch by Salmon Fishing Area for New Brunswick and Prince Edward Island, 1989. (continued)

| Grise | Large salmon | Total | Effort | Catch/effort ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Number |  | Number Wt ${ }^{\text {d }}$ (kg) | (rod-days) | (fish |

Salmon fishing area 15

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | 7 | 12 | 0 | 0 | 7 | 12 | 101 | 0.069 |
| May | 43 | 74 | 0 | 0 | 43 | 74 | 250 | 0.172 |
| Total | 50 | 86 | 0 | 0 | 50 | 86 | 351 | 0.142 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 181 | 314 | 0 | 0 | 181 | 314 | 2700 | 0.037 |
| July | 1852 | 3302 | 0 | 0 | 1852 | 3302 | 4904 | 0.378 |
| August | 998 | 1733 | 0 | 0 | 998 | 1733 | 3542 | 0.282 |
| September | 426 | 770 | 0 | 0 | 426 | 770 | 2269 | 0.188 |
| October | 195 | 341 | 0 | 0 | 195 | 341 | 1097 | 0.178 |
| Total | 3652 | 6460 | 0 | 0 | 3652 | 6460 | 14512 | 0.252 |

Salmon fishing area 16

| Kelts |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | :--- | ---: | :--- |
| April | 4978 | 6508 | 0 | 0 | 4978 | 6508 | 5316 | 0.936 |
| May | 2103 | 2635 | 0 | 0 | 2103 | 2635 | 3545 | 0.593 |
| Total | 7081 | 9143 | 0 | 0 | 7081 | 9143 | 8861 | 0.799 |
|  |  |  |  |  |  |  |  |  |
| Bright Fish |  | 1229 | 0 | 0 | 754 | 1229 | 2902 | 0.260 |
| June | 754 | 123 |  |  |  |  |  |  |
| July | 2540 | 3735 | 0 | 0 | 2540 | 3735 | 9186 | 0.277 |
| August | 2709 | 4812 | 0 | 0 | 2709 | 4812 | 7752 | 0.349 |
| September | 6263 | 10641 | 0 | 0 | 6263 | 10641 | 9874 | 0.634 |
| October | 705 | 1006 | 0 | 0 | 705 | 1006 | 2623 | 0.269 |
| Total | 12971 | 21423 | 0 | 0 | 12971 | 21423 | 32337 | 0.401 |

Salmon fishing area 23

| Kelts |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| April | N/A |  | 0 | 0 | N/A |  | 70 |
| May | N/A |  | 0 | 0 | N/A | 120 |  |
| Total | N/A |  | 0 | 0 | N/A |  | 190 |
|  |  |  |  |  |  |  |  |
| Bright Fish |  |  |  |  |  |  |  |
| June | 159 | 323 | 0 | 0 | 159 | 323 | 2808 |
| July | 1628 | 3321 | 0 | 0 | 1628 | 3321 | 13029 |
| August | 591 | 1206 | 0 | 0 | 591 | 1206 | 4496 |
| September | 595 | 1214 | 0 | 0 | 595 | 1214 | 4621 |
| October | 266 | 543 | 0 | 0 | 266 | 543 | 0.057 |
| Total | 3239 | 6611 | 0 | 0 | 3239 | 6611 | 26471 |

1. Retained fish per rod-day.

N/A = not available

TABLE 16. Sport catch by Salmon Fishing Area for New Brunswick and Prince Edward Island, 1989. (continued)
$\frac{\text { Grilse }}{\text { Number }} \mathrm{Wt(kg)}$

Number $\quad$ Large salmon

Salmon fishing area 17

| Bright Fish |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| June | 4 | 7 | 0 | 0 | 4 | 7 | 594 | 0.007 |
| July | 39 | 71 | 0 | 0 | 39 | 71 | 1829 | 0.021 |
| August | 28 | 51 | 0 | 0 | 28 | 51 | 880 | 0.032 |
| September | 96 | 174 | 0 | 0 | 96 | 174 | 995 | 0.096 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 0.000 |
| Total | 167 | 303 | 0 | 0 | 167 | 303 | 4613 | 0.039 |

TABLE 17. Sport catch by province for New Brunswick and Prince Edward Island, 1989.


New Brunswick

| Kelts |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April | 4985 | 6520 | 0 | 0 | 4985 | 6520 | 5487 | 0.909 |
| May | 2146 | 2709 | 0 | 0 | 2146 | 2709 | 3915 | 0.548 |
| Total | 7131 | 9229 | 0 | 0 | 7131 | 9229 | 9402 | 0.758 |
| Bright Fish |  |  |  |  |  |  |  |  |
| June | 1094 | 1866 | 0 | 0 | 1094 | 1866 | 8410 | 0.130 |
| July | 6020 | 10358 | 0 | 0 | 6020 | 10358 | 27119 | 0.222 |
| August | 4298 | 7751 | 0 | 0 | 4298 | 7751 | 15790 | 0.272 |
| September | 7284 | 12625 | 0 | 0 | 7284 | 12625 | 16764 | 0.435 |
| October | 1166 | 1890 | 0 | 0 | 1166 | 1890 | 5237 | 0.223 |
| Total | 19862 | 34489 | 0 | 0 | 19862 | 34489 | 73320 | 0.271 |

Prince Edward Island

| Bright Fish |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June | 4 | 7 | 0 | 0 | 4 | 7 | 594 | 0.007 |
| July | 39 | 71 | 0 | 0 | 39 | 71 | 1829 | 0.021 |
| August | 28 | 51 | 0 | 0 | 28 | 51 | 880 | 0.032 |
| September | 96 | 174 | 0 | 0 | 96 | 174 | 995 | 0.096 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 0.000 |
| Total | 167 | 303 | 0 | 0 | 167 | 303 | 4613 | 0.039 |

NOVA SCOTIA

TABLE 18. 1989 Nova Scotia Atlantic salmon recreational catch summary data.
CATCH $=.862:$ EFFORT $=.89$
Number of licenses issued in 1989 .................................................. 8615
Number of license stubs returned ................................................... 6307
Overal response rate ....................................................................... $73 \%$
Number of unspoiled stubs used in analysis .................................... 6138

| Number of ${ }^{\text {of }} \begin{gathered}\text { Observed } \\ \text { number }\end{gathered}$ | Percent observed | Estimated number |
| :---: | :---: | :---: |
| resident anglers ...............................................5,086 | 83 | 6,974 ${ }^{1}$ |
| non-resident anglers .........................................1,052 | 17 | 1,641 ${ }^{1}$ |
| anglers who fished...........................................5,293 | 86 | 7,429 |
| anglers who did not fish....................................... 845 | 14 | 1,185 |
| successtul anglers...........................................2,751 | 45 | 3,860 |
| unsuccessful anglers........................................2,542 | 41 | 3,568 |
| rod days fished in season................................66,146 |  |  |
| rod days fished by successful anglers.................48,742 |  |  |
| rod days fished by unsuccessful anglers.............17,404 |  |  |
| rod days per angler ${ }^{2}$........................................ 12.50 |  |  |
| rivers fished per angler ${ }^{2}$..................................... 1.64 |  |  |
| fish retained...................................................7,559 | 9,145 |  |
| grilse retained.................................................7,559 | 9,145 |  |
| large salmon retained............................................ 0 | 0 |  |
| fish released ...................................................7,044 | 8,522 |  |
| grilse released ................................................1,291 | 1,562 |  |
| large salmon released ......................................5,753 | 6,960 |  |
| fish angled (retained \& released).......................14,603 | 17,667 |  |
| fish per rod day ..................................................0.221 |  |  |
| fish per angler ${ }^{2}$................................................2.379 |  |  |
| fish per licensee...............................................1.695 |  |  |

1. Actual number, not estimated.
2. Calulations are based on licensees who fished.

TABLE 19. 1989: Catch by river.

| River |  | Numbers retained |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Season dates |  | Observed | Grilse |  |  | Salmon |  |  | Unknown | Totals |  |  | Numbers released |  |  |  |
|  |  | Begin | End | No. of | Obs. | Estim |  | Obs. | Estim |  | Obs. | Obs. | Est 1 | ated |  |  | Sal |  |
| Code | Name | D M | D $M$ | anglers | No. | No. | kg | No. | No. | kg | No. | No. | No. | kg | Obs. |  | Obs. | Est. |
|  | Aconi Brook | 15/06 | 15/10 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 2 A | Annapolis | 1/05 | 31/07 | 7 | 3 | 4 | 8 | 0 | 0 | 0 | 0 | 3 | 4 | 8 | 0 | 0 | 1 | 1 |
| 3 A | Apple | 15/08 | 31/10 | 7 | 6 | 7 | 9 | 0 | 0 | 0 | 0 | 6 | 7 | 9 | 0 | 0 | 1 | 1 |
| 4 B | Baddeck | 15/06 | 15/10 | 98 | 7 | 8 | 14 | 0 | 0 | 0 | 0 | 7 | 8 | 14 | 8 | 10 | 204 | 247 |
| 5 | Barachols | 15/06 | 15/10 | 12 | 3 |  | 10 | 0 | 0 | 0 | 0 | 3 | 4 | 10 | 1 | 1 | 6 | 7 |
| 6 B | Barney's | $1 / 09$ | 31/10 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 5 | 1 | 1 |
| 7 B | Barrington | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 B | Babs | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Bear | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 B | Broad | 10/05 | 15/08 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 |
| 11 C | catalone | 15/06 | 15/10 | 55 | 25 | 30 | 47 | 0 | 0 | 0 | 0 | 25 | 30 | 47 | 1 | 1 | 12 | 15 |
| 12 C | Cheticamp | $1 / 09$ | 31/10 | 33 | 5 | 6 | 10 | 0 | 0 | 0 | 0 | 5 | 6 | 10 | 1 | 1 | 116 | 140 |
| 13 C | Chezzetcook | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Chiganois | 15/08 | 31/10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 C | Clam harbour | 24/06 | 22/09 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 124 | Clyburne | 15/06 | 15/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Clyde | 10/05 | 15/08 | 46 | 10 | 12 | 22 | 0 | 0 | 0 | 0 | 10 | 12 | 22 | 2 | 2 | 9 | 11 |
| 17 | Cole Harbour | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Cornwallis | 15/08 | 31/10 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 4 | 0 | 0 |
| 19 C | Country Harbour | 24/06 | 22/09 | 21 | 18 | 22 | 35 | 0 | 0 | 0 | 0 | 18 | 22 | 35 | 6 | 7 | 7 | 8 |
| 20 D | Debert | 15/08 | 31/10 | 30 | 29 | 35 | 52 | 0 | 0 | 0 | 0 | 29 | 35 | 52 | 5 | 6 | 5 | 6 |
| 21 D | Diligent | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 118 | East Colchester | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 E | East: Lunenburg Co. | $10 / 05$ | 15/08 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 23 E | East: Pictou Co. | $1 / 09$ | 31/10 | 240 | 34 | 41 | 69 | 0 | 0 | 0 | 0 | 34 | 41 | 69 | 38 | 46 | 554 | 670 |
| 24 E | East: Sheet Harbour | $1 / 06$ | 29/08 | 57 | 58 | 70 | 112 | 0 | 0 | 0 | 0 | 58 | 70 | 112 | 11 | 13 | 13 | 16 |
| 25 E | Economy | 15/08 | 31/10 | 25 | 6 | 7 | 10 | 0 | 0 | 0 | 0 | 6 | 7 | 10 | 0 | 0 | 1 | 1 |
| 26 E | Ecum Secum | $1 / 06$ | 29/08 | 53 | 63 | 76 | 128 | 0 | 0 | 0 | 0 | 63 | 76 | 128 | 9 | 11 | 15 | 18 |
| 27 F | Folly | 15/08 | 31/10 | 31 | 27 | 33 | 57 | 0 | 0 | 0 | 0 | 27 | 33 | 57 | 4 | 5 | 6 | 7 |
| 28 F | Framboise | 15/06 | 15/10 | 55 | 63 | 76 | 127 | 0 | 0 | 0 | 0 | 63 | 76 | 127 | 5 | 6 | 39 | 47 |
| 29 F | French | $1 / 09$ | 31/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 G | Gaspereau: Brook | 1/06 | 29/08 | 7 | 11 | 13 | 20 | 0 | 0 | 0 | 0 | 11 | 13 | 20 | 0 | 0 | 0 | 0 |
| 30 G | Gaspereau: C. Breton | 15/06 | 15/10 | 7 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 0 | 0 |
| 31 G | Gaspereau: Kings Co. | 15/05 | 15/08 | 46 | 38 | 46 | 75 | 0 | 0 | 0 | 0 | 38 | 46 | 75 | 0 | 0 | 39 | 47 |
| 33 G | Gegogan | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34 G | Gerratt | 15/06 | 15/10 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 |
| 35 G | Gold | 10/05 | 15/08 | 278 | 396 | 479 | 797 | 0 | 0 | 0 | 0 | 396 | 479 | 797 | 45 | 54 | 104 | 126 |
| 36 G | Grand | 15/06 | 15/10 | 247 | 240 | 290 | 493 | 0 | 0 | 0 | 0 | 240 | 290 | 493 | 18 | 22 | 62 | 75 |
| 37 G | Great Village | 15/08 | 31/10 | 6 | 17 | 21 | 35 | 0 | 0 | 0 | 0 | 17 | 21 | 35 | 6 | 7 | 1 | 1 |
| 38 G | Guysborough | 24/06 | 22/09 | 2 | 3 | 4 | 6 | 0 | 0 | 0 | 0 | 3 | 4 | 6 | 0 | 0 | 0 | 0 |
| 40 H | Hal fway Brook | 1/06 | 29/08 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 H | Harrington | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 I | Indian Brook | 15/06 | 15/10 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 42 I | Ingonish | 15/06 | 15/10 | 4 | 6 | 7 | 11 | 0 | 0 | 0 | 0 | 6 | 7 | 11 | 0 | 0 | 20 | 24 |
| 43 I | Ingram | 1/06 | 15/08 | 13 | 5 | 6 | 10 | 0 | 0 | 0 | 0 | 5 | 6 | 10 | 4 | 5 | 0 | 0 |
| 441 | Inhabitants | 15/06 | 31/10 | 45 | 20 | 24 | 45 | 0 | 0 | 0 | 0 | 20 | 24 | 45 | 1 | 1 | 62 | 75 |
| 45 I | Isaac's Harbour | $1 / 06$ | 29/08 | 14 | 19 | 23 | 41 | 0 | 0 | 0 | 0 | 19 | 23 | 41 | 0 | 0 | 0 | 0 |
| 46 J | Jordan | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47 K | Kennetcook | 15/08 | 31/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 K | Kirby | $1 / 06$ | 29/08 | 6 | 8 | 10 | 17 | 0 | 0 | 0 | 0 | 8 | 10 | 17 | 1 | 1 | 7 | 8 |
| 49 L | LaHave | 10/05 | 15/08 | 1097 | 2021 | 2445 | 4350 | 0 | 0 | 0 | 0 | 2021 | 2445 | 4350 | 338 | 409 | 553 | 669 |
| 50 L | Larry' | 1106 | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 51 L | Lawrencetown Lake | 1/06 | 29/08 | 2 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 0 | 0 |
| 52 L | Lequille | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53 L | Liscomb | 1/06 | 29/08 | 119 | 40 | 48 | 81 | 0 | 0 | 0 | 0 | 40 | 48 | 81 | 14 | 17 | 7 | 8 |
| 54 L | Little Bass | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 127 L | Little Lorraine | 15/06 | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55 L | Little Salmon | $1 / 06$ | 29/08 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 |
| 56 L | Lorraine Brook | 15/06 | 15/10 | 12 | 10 | 12 | 22 | 0 | 0 | 0 | 0 | 10 | 12 | 22 | 2 | 2 | 6 | 7 |
| 119 | Mabou | $1 / 09$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58 M | Maccan | 15/08 | 31/10 | 113 | 108 | 131 | 217 | 0 | 0 | 0 | 0 | 108 | 131 | 217 | 8 | 10 | 29 | 35 |
| 59 M | Margaree | $1 / 06$ | 15/10 | 1486 | 359 | 434 | 755 | 0 | 0 | 0 | 0 | 359 | 434 | 755 | 105 | 127 | 1298 | 1570 |
| 60 M | Marie Joseph | 15/06 | 15/10 | 18 | 23 | 28 | 48 | 0 | 0 | 0 | 0 | 23 | 28 | 48 | 0 | 0 | 2 | 2 |
| 57 M | Martins | $10 / 05$ | $15 / 08$ | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 61 M | Meander (Avon) | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62 M | Medway | 10/05 | $31 / 07$ | 415 | 475 | 575 | 1074 | 0 | 0 | 0 | 0 | 475 | 575 | 1074 | 27 | 33 | 171 | 207 |
| 63 M | Mersey | 10/05 | 15/08 | 110 | 99 | 120 | 218 | 0 | 0 | 0 | 0 | 99 | 120 | 218 | 4 | 5 | 47 | 57 |
| 64 M | Middle: Lunenburg Co | 10/05 | 15/08 | 5 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 3 | 4 | 7 | 3 | 4 | 1 | 1 |
| 65 M | Middle: Plctou Co. | $1 / 09$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66 | Middlet Victoria Co. | $1 / 06$ | 15/10 | 144 | 34 | 41 | 63 | 0 | 0 | 0 | 0 | 34 | 41 | 63 | 9 | 11 | 231 | 279 |
| 67 M | mira | 15/06 | 15/10 | 26 | 12 | 15 | 26 | 0 | 0 | 0 | 0 | 12 | 15 | 26 | 0 | 0 | 14 | 17 |
| 68 M | Moser | 1/06 | 29/08 | 111 | 150 | 181 | 308 | 0 | 0 | 0 | 0 | 150 | 181 | 308 | 9 | 11 | 5 | 6 |
| 69 M | Mushamush | 10/05 | 15/08 | 21 | 25 | 30 | 52 | 0 | 0 | 0 | 0 | 25 | 30 | 52 | 1 | 1 | 6 | 7 |
| 70 M | Musquodoboit | 1/06 | 29/08 | 353 | 199 | 241 | 430 | 0 | 0 | 0 | 0 | 199 | 241 | 430 | 54 | 65 | 137 | 166 |
| 71 N | Nappan | 15108 | 31/10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 N | Necum Teuch | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 73 N | New Harbour | 1/06 | 29108 | 24 | 26 | 31 | 49 | 0 | 0 | 0 | 0 | 26 | 31 | 49 | 0 | 0 | 1 | 1 |
| 74 N | Nictaux | 15/08 | $31 / 10$ | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* See variation order.

| River | Season dates |  | Observed | Grilse |  |  | Salmon U |  |  | Unknown |  | Totals |  |  | Numbers released |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Begin | End | No. of | Obs. | Estim | mated | Obs. | Estim |  |  |  | Obs. | Estim | mated |  | 188 |  |  |
| code Name | D M | D M | anglers | No. | No. | kg | No. | No. | kg |  |  | No. | No. | kg | Obs. | Eat. | Oba. | Est. |
| 75 Nine Mile | 10/05 | 15/08 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76 North : Colchester | 15/08 | 31/10 | 72 | 106 | 128 | 210 | 0 | 0 | 0 |  | 0 | 106 | 128 | 210 | 11 | 13 | 8 | 10 |
| 77 North : Victoria Co | $1 / 06$ | 15/10 | 162 | 101 | 122 | 187 | 0 | 0 | 0 |  | 0 | 101 | 122 | 187 | 33 | 40 | 331 | 400 |
| 78 North Aspy | 15/06 | 15/10 | 24 | 4 | 5 | 8 | 0 | 0 | 0 |  | 0 | 4 | 5 | 8 | 2 | 2 | 27 | 33 |
| 120 Northwest Brook (Riv | 15/06 | 15/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 Paradibe Brook | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 Petite Riviere | 15/06 | 15/08 | 67 | 141 | 171 | 307 | 0 | 0 | 0 |  | 0 | 141 | 171 | 307 | 23 | 28 | 17 | 21 |
| 81 Pomquet | 1/09 | 31/10 | 1 | 1 | 1 | 2 | 0 | 0 | 0 |  | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 |
| 83 Port Dufferin | 1/06 | 29/08 | 6 | 4 | 5 | 7 | 0 | 0 | 0 |  | 0 | 4 | 5 | 7 | 0 | 0 | 0 | 0 |
| 82 Portapique | 15/08 | 31/10 | 13 | 11 | 13 | 26 | 0 | 0 | 0 |  | 0 | 11 | 13 | 26 | 4 | 5 | 1 | 1 |
| 132 Porters Lake (East B | 1/06 | 29/08 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 84 Pugwash | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85 Quoddy | 1/06 | 29108 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 121 Ramshead (Ramsey) | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 129 River Bennett | $15 / 06$ | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 122 River Deny ${ }^{\text {c }}$ | $15 / 06$ | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86 River Hebert | 15/08 | 31/10 | 29 | 66 | 80 | 135 | 0 | 0 | 0 |  | 0 | 66 | 80 | 135 | 7 | 8 | 6 | 7 |
| 87 River John | 1/09 | 31/10 | 59 | 14 | 17 | 28 | 0 | 0 | 0 |  | 0 | 14 | 17 | 28 | 1 | 1 | 82 | 99 |
| 88 River Philip | 1/09 | 31/10 | 144 | 78 | 94 | 155 | 0 | 0 | 0 |  | 0 | 78 | 94 | 155 | 16 | 19 | 336 | 407 |
| 89 River Tillard | 15/06 | 15/10 | 22 | 7 | 8 | 17 | 0 | 0 | 0 |  | 0 | 7 | 8 | 17 | 0 | 0 | 7 | 8 |
| 90 Rocky Run Porters L. | $1 / 06$ | $29 / 08$ | 1 | 1 | 1 | 1 | 0 | 0 | 0 |  | 0 | , | I | 1 | 0 | 0 | 0 | 0 |
| 91 Roseway | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92 Round Hill | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 131 Sackville | 10/05 | 15/08 | 18 | 31 | 38 | 63 | 0 | 0 | 0 |  | 0 | 31 | 38 | 63 | 15 | 18 | 8 | 10 |
| 95 Saint Croix | $15 / 08$ | 31/10 | 33 | 23 | 28 | 46 | 0 | 0 | 0 |  | 0 | 23 | 28 | 46 | 16 | 19 | 0 | 0 |
| 93 Saint Esprit | 15/06 | 15/10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 94 Saint Francis | 24/06 | 22/09 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 96 Saint Mary's | 18/05 | 15/09 | 782 | 475 | 575 | 1010 | 0 | 0 | 0 |  | 0 | 475 | 575 | 1010 | 66 | 80 | 382 | 462 |
| 97 Salmon: Cape Breton | 15/06 | 15/10 | 46 | 6 | 7 | 13 | 0 | 0 | 0 |  | 0 | 6 | 7 | 13 | 0 | 0 | 17 | 21 |
| 98 Salmon: Colchester | 15/08 | 31/10 | 69 | 80 | 97 | 158 |  | 0 | 0 |  | 0 | 80 | 97 | 158 | 42 | 51 | 18 | 22 |
| 99 Salmon: Digby Co. | 1/06 | 15/08 | 60 | 67 | 81 | 149 | 0 | 0 | 0 |  | 0 | 67 | 81 | 149 | 3 | 4 | 7 | 8 |
| 100 Salmon: Guysborough | 24/06 | 22/09 | 177 | 232 | 281 | 484 | 0 | 0 | 0 |  | 0 | 232 | 281 | 484 | 10 | 12 | 174 | 211 |
| 101 Salmon: Halifax Co. | 1/06 | $29 / 08$ | 19 | 11 | 13 | 23 | 0 | 0 | 0 |  | 0 | 11 | 13 | 23 | 3 | 4 | 4 | 5 |
| 102 Shinimikas | 1/09 | 31/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 103 Ship Hbr.L.Charlotte | 1/06 | 29/08 | 36 | 39 | 47 | 85 | 0 | 0 | 0 |  | 0 | 39 | 47 | 85 | 2 | 2 | 3 | 4 |
| 104 Shubenacadie | 15/08 | 31/10 | 75 | 51 | 62 | 106 | 0 | 0 | 0 |  | 0 | 51 | 62 | 106 | 8 | 10 | 15 | 18 |
| 105 Siesiboo | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 123 Skye | 15/06 | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 106 South | 1/09 | 31/10 | 8 | 5 | 6 | 11 | 0 | 0 | 0 |  | 0 | 5 | 6 | 11 | 5 | 6 | 1 | 1 |
| 107 Stewiacke | $1 / 08$ | 31/10 | 768 | 899 | 1088 | 1845 | 0 | 0 | 0 |  | 0 | 899 | 1088 | 1845 | 200 | 242 | 175 | 212 |
| 126 Sutherland | $1 / 09$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125 Sydney | 15/06 | 15/10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 108 Tangier | $1 / 06$ | 29/08 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 109 Taylor Bay Brook | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110 Three Fathom Harbour | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 111 Tidnish | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130 Tracadie | $1 / 09$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 112 Tusket | 1/06 | 15/08 | 103 | 95 | 115 | 215 | 0 | 0 | 0 |  | 0 | 95 | 115 | 215 | 16 | 19 | 30 | 36 |
| 113 Wallace | 1/09 | 31/10 | 67 | 8 | 10 | 16 | 0 | 0 | 0 |  | 0 | 8 | 10 | 16 | 2 | 2 | 27 | 33 |
| 114 Waugh | $1 / 09$ | 31/10 | 24 | 4 | 5 | 9 | 0 | 0 | 0 |  | 0 | 4 | 5 | 9 | 0 | 0 | 4 | 5 |
| 117 West Sheet Harbour | 1/06 | 29/08 | 107 | 220 | 266 | 446 | 0 | 0 | 0 |  | 0 | 220 | 266 | 446 | 38 | 46 | 22 | 27 |
| 115 West: Antigonish Co. | 1/09 | 31/10 | 99 | 54 | 65 | 120 | 0 | 0 | 0 |  | 0 | 54 | 65 | 120 | 20 | 24 | 180 | 218 |
| 116 West: Pletou Co. | 1/09 | 31/10 | 60 | 11 | 13 | 21 | 0 | 0 | 0 |  | 0 | 11 | 13 | 21 | 1 | 1 | 50 | 60 |
| 128 Wright | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Provincial totals: |  |  | 8706 | 7559 | 9145 | 15890 | 0 | 0 | 0 |  | 0 | 7559 | 9145 | 15890 | 1291 | 1562 | 5753 | 6960 |

* See variation order.

TABLE 20. 1989: Catch by district.

|  | Numbers retained |  |  |  |  |  |  |  |  |  |  | Numbers released |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Observed <br> No. of | Grilse |  |  | Salmon |  |  | Unknow! | Totals |  |  |  |  |  |  |
|  |  | Obs. | Estim | nated | Obs. | Estim |  | Obs. | Obs. | Estim | nated | Grilse |  | Salmon |  |
| District | anglers | No. | No. | kg | No. | No. | kg | No. | No. | No. | kg | Obs. Est. |  | Obs. | Est. |
| 1 | 29 | 10 | 12 | 19 | 0 | 0 | 0 | 0 | 10 | 12 | 19 | 2 | 2 | 47 | 57 |
| 2 | 1519 | 364 | 440 | 765 | 0 | 0 | 0 | 0 | 364 | 440 | 765 | 106 | 128 | 1414 | 1711 |
| 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 423 | 146 | 177 | 274 | 0 | 0 | 0 | 0 | 146 | 177 | 274 | 51 | 62 | 773 | 935 |
| 6 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 4 |
| 7 | 148 | 56 | 68 | 115 | 0 | 0 | 0 | 0 | 56 | 68 | 115 | 3 | 4 | 50 | 60 |
| 8 | 325 | 326 | 394 | 667 | 0 | 0 | 0 | 0 | 326 | 394 | 667 | 23 | 28 | 103 | 125 |
| 9 | 67 | 27 | 33 | 63 | 0 | 0 | 0 | 0 | 27 | 33 | 63 | 1 | 1 | 69 | 83 |
| 10 | 25 | 4 | 5 | 9 | 0 | 0 | 0 | 0 | 4 | 5 | 9 | 0 | 0 | 4 | 5 |
| 11 | 119 | 25 | 30 | 49 | 0 | 0 | 0 | 0 | 25 | 30 | 49 | 2 | 2 | 132 | 160 |
| 12 | 241 | 35 | 42 | 70 | 0 | 0 | 0 | 0 | 35 | 42 | 70 | 42 | 51 | 555 | 671 |
| 13 | 108 | 60 | 73 | 134 | 0 | 0 | 0 | 0 | 60 | 73 | 134 | 25 | 30 | 182 | 220 |
| 14 | 180 | 235 | 284 | 488 | 0 | 0 | 0 | 0 | 235 | 284 | 488 | 10 | 12 | 174 | 211 |
| 15 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 38 | 45 | 54 | 89 | 0 | 0 | 0 | 0 | 45 | 54 | 89 | 0 | 0 | 1 | 1 |
| 17 | 982 | 607 | 734 | 1272 | 0 | 0 | 0 | 0 | 607 | 734 | 1272 | 95 | 115 | 411 | 497 |
| 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 |
| 19 | 297 | 440 | 532 | 890 | 0 | 0 | 0 | 0 | 440 | 532 | 890 | 59 | 71 | 48 | 58 |
| 20 | 412 | 253 | 306 | 546 | 0 | 0 | 0 | 0 | 253 | 306 | 546 | 59 | 71 | 144 | 174 |
| 21 | 18 | 31 | 38 | 63 | 0 | 0 | 0 | 0 | 31 | 38 | 63 | 15 | 18 | 8 | 10 |
| 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 13 | 5 | 6 | 10 | 0 | 0 | 0 | 0 | 5 | 6 | 10 | 4 | 5 | 0 | 0 |
| 24 | 151 | 180 | 218 | 361 | 0 | 0 | 0 | 0 | 180 | 218 | 361 | 15 | 18 | 36 | 44 |
| 25 | 307 | 424 | 513 | 857 | 0 | 0 | 0 | 0 | 424 | 513 | 857 | 49 | 59 | 112 | 136 |
| 27 | 1164 | 2162 | 2616 | 4658 | 0 | 0 | 0 | 0 | 2162 | 2616 | 4658 | 361 | 437 | 570 | 690 |
| 28 | 526 | 574 | 694 | 1290 | 0 | 0 | 0 | 0 | 574 | 694 | 1290 | 31 | 38 | 228 | 276 |
| 30 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | 46 | 10 | 12 | 22 | 0 | 0 | 0 | 0 | 10 | 12 | 22 | 2 | 2 | 9 | 11 |
| 33 | 103 | 95 | 115 | 215 | 0 | 0 | 0 | 0 | 95 | 115 | 215 | 16 | 19 | 30 | 36 |
| 35 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36 | 60 | 67 | 81 | 149 | 0 | 0 | 0 | 0 | 67 | 81 | 149 | 3 | 4 | 7 | 8 |
| 38 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39 | 7 | 3 | 4 | 8 | 0 | 0 | 0 | 0 | 3 | 4 | 8 | 0 | 0 | 1 | 1 |
| 41 | 51 | 39 | 47 | 76 | 0 | 0 | 0 | 0 | 39 | 47 | 76 | 3 | 4 | 39 | 47 |
| 42 | 877 | 973 | 1177 | 1996 | 0 | 0 | 0 | 0 | 973 | 1177 | 1996 | 224 | 271 | 190 | 230 |
| 43 | 249 | 276 | 334 | 549 | 0 | 0 | 0 | 0 | 276 | 334 | 549 | 72 | 87 | 40 | 48 |
| 44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45 | 145 | 78 | 94 | 155 | 0 | 0 | 0 | 0 | 78 | 94 | 155 | 16 | 19 | 336 | 407 |
| 46 | 67 | 8 | 10 | 16 | 0 | 0 | 0 | 0 | 8 | 10 | 16 | 2 | 2 | 27 | 33 |
| Provincial totals: | 8706 | 7559 | 9145 | 15890 | 0 | 0 | 0 | 0 | 7559 | 9145 | 15890 | 1291 | 1562 | 5753 | 6960 |

TABLE 21. 1989, Catch by county.

|  |  | Numbers retained |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Observed No. of | Grilse |  |  | Salmon |  |  | Unknown | Totals |  |  | Numbers released |  |  |  |
| Code | County |  | Obs. | Estim | nated | Obs. | Estim |  | Obs. | Obs. | Eatí | nated | Gr | 180 | Salm |  |
|  | Name | anglers | No. | No. | kg | No. | No. | kg | No. | No. | No. | kg | Obs. | Est. | Obs, | Est. |
| 1 | Annapolis | 7 | 3 | 4 | 8 | 0 | 0 | 0 | 0 | 3 | 4 | 8 | 0 | 0 | 1 | 1 |
| 2 | Antigonish | 108 | 60 | 73 | 134 | 0 | 0 | 0 | 0 | 60 | 73 | 134 | 25 | 30 | 182 | 220 |
| 3 | Cape Breton | 154 | 57 | 69 | 117 | 0 | 0 | 0 | 0 | 57 | 69 | 117 | 3 | 4 | 53 | 64 |
| 4 | Colchester | 1042 | 1179 | 1426 | 2402 | 0 | 0 | 0 | 0 | 1179 | 1426 | 2402 | 272 | 329 | 219 | 265 |
| 5 | Cumberland | 363 | 266 | 322 | 532 | 0 | 0 | 0 | 0 | 266 | 322 | 532 | 33 | 40 | 399 | 483 |
| 6 | Digby | 60 | 67 | 81 | 149 | 0 | 0 | 0 | 0 | 67 | 81 | 149 | 3 | 4 | 7 | 8 |
| 7 | Guyaborough | 1200 | 887 | 1073 | 1851 | 0 | 0 | 0 | 0 | 887 | 1073 | 1851 | 105 | 127 | 586 | 709 |
| 8 | Halifax | 743 | 729 | 882 | 1509 | 0 | 0 | 0 | 0 | 729 | 882 | 1509 | 137 | 166 | 210 | 254 |
| 9 | Hante | 109 | 74 | 90 | 152 | 0 | 0 | 0 | 0 | 74 | 90 | 152 | 24 | 29 | 15 | 18 |
| 10 | Inverness | 1519 | 364 | 440 | 765 | 0 | 0 | 0 | 0 | 364 | 440 | 765 | 106 | 128 | 1414 | 1711 |
| 11 | Kinge | 51 | 39 | 47 | 76 | 0 | 0 | 0 | 0 | 39 | 47 | 76 | 3 | 4 | 39 | 47 |
| 12 | Lunenburg | 1471 | 2586 | 3129 | 5517 | 0 | 0 | 0 | 0 | 2586 | 3129 | 5517 | 410 | 496 | 682 | 825 |
| 13 | Pictou | 360 | 60 | 73 | 121 | 0 | 0 | 0 | 0 | 60 | 73 | 121 | 44 | 53 | 687 | 831 |
| 14 | Queens | 526 | 574 | 694 | 1290 | 0 | 0 | 0 | 0 | 574 | 694 | 1290 | 31 | 38 | 228 | 276 |
| 15 | Richmond | 392 | 353 | 427 | 730 | 0 | 0 | 0 | 0 | 353 | 427 | 730 | 24 | 29 | 172 | 208 |
| 16 | Shelburne | 46 | 10 | 12 | 22 | 0 | 0 | 0 | 0 | 10 | 12 | 22 | 2 | 2 | 9 | 11 |
| 17 | Victoria | 452 | 156 | 189 | 293 | 0 | 0 | 0 | 0 | 156 | 189 | 293 | 53 | 64 | 820 | 992 |
| 18 | Yarmouth | 103 | 95 | 115 | 215 | 0 | 0 | 0 | 0 | 95 | 115 | 215 | 16 | 19 | 30 | 36 |
| Provi | cial totala: | 8706 | 7559 | 9145 | 15890 | 0 | 0 | 0 | 0 | 7559 | 9145 | 15890 | 1291 | 1562 | 5753 | 6960 |

TABLE 22. 1989: Catch by salmon fishing area.


TABLE 23. 1989: Catch and effort by river.

| River |  | Season dateb |  | Observed <br> No. of | Numbers <br> Grilse |  | ght (includ |  | ng releases) |  |  | Effort |  | Catch per effort | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Begin | End |  |  |  | Salm |  | Unknown | Tot |  | No. of r | d days |  |  |
| Code | Name | D M | D M | anglers | Obs. | Est. | Obs. | Est. | Obs. | Obs. | Est. | Obs. | Est. | Fish/day | salmon |
| 1 | Aconi Brook | 15/06 | 15/10 | 2 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 15 | 19 | 0.133 | 50.0 |
| 2 | Annapolis | 1/05 | 31/07 | 7 | 3 | 4 | 1 | 1 | 0 | 4 | 5 | 61 | 76 | 0.066 | 25.0 |
| 3 | Apple | 15/08 | 31/10 | 7 | 6 | 7 | 1 | 1 | 0 | 7 | 8 | 32 | 40 | 0.219 | 14.3 |
| 4 | Baddeck | 15/06 | 15/10 | 98 | 15 | 18 | 204 | 247 | 0 | 219 | 265 | 392 | 490 | 0.559 | 93.2 |
| 5 | Barachois | 15/06 | 15/10 | 12 | 4 | 5 | 6 | 7 | 0 | 10 | 12 | 51 | 64 | 0.196 | 60.0 |
| 6 | Barney's | 1/09 | 31/10 | 1 | 5 | 6 | 1 | 1 | 0 | 6 | 7 | 9 | 11 | 0.667 | 16.7 |
| 7 | Barrington | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 8ав | 15/08 | $31 / 10$ | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Bear | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Broad | 10/05 | 15/08 | 1 | 0 | 0 | 10 | 12 | 0 | 10 | 12 | 70 | 87 | 0.143 | 100.0 |
| 11 | Catalone | 15/06 | 15/10 | 55 | 26 | 31 | 12 | 15 | 0 | 38 | 46 | 452 | 565 | 0.084 | 31.6 |
| 12 | Cheticamp | 1/09 | 31/10 | 33 | 6 | 7 | 116 | 140 | 0 | 122 | 148 | 237 | 296 | 0.515 | 95.1 |
| 13 | Chezzetcook | 1/06 | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Chiganois | 15/08 | 31/10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 | 0.000 | 0.0 |
| 15 | Clam Harbour | 24/06 | $22 / 09$ | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 124 | Clyburne | 15/06 | 15/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 37 | 0.000 | 0.0 |
| 16 | Clyde | 10/05 | 15/08 | 46 | 12 | 15 | 9 | 11 | 0 | 21 | 25 | 345 | 431 | 0.061 | 42.9 |
| 17 | Cole Harbour | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Cornwallis | 15/08 | 31/10 | 5 | 4 | 5 | 0 | 0 | 0 | 4 | 5 | 42 | 52 | 0.095 | 0.0 |
| 19 | Country Harbour | 24/06 | $22 / 09$ | 21 | 24 | 29 | 7 | 8 | 0 | 31 | 38 | 111 | 139 | 0.279 | 22.6 |
| 20 | Debert | 15/08 | 31/10 | 30 | 34 | 41 | 5 | 6 | 0 | 39 | 47 | 171 | 214 | 0.228 | 12.8 |
| 21 | Diligent | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 118 | East Colchester | $15 / 08$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 22 | East, Lunenburg Co. | 10/05 | 15/08 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 5 | 6 | 0.200 | 100.0 |
| 23 | East: Pictou Co. | 1/09 | 31/10 | 240 | 72 | 87 | 554 | 670 | 0 | 626 | 757 | 1365 | 1705 | 0.459 | 88.5 |
| 24 | East, Sheet Harbour | 1/06 | $29 / 08$ | 57 | 69 | 83 | 13 | 16 | 0 | 82 | 99 | 420 | 525 | 0.195 | 15.9 |
| 25 | Economy | 15/08 | 31/10 | 25 | 6 | 7 | 1 | 1 | 0 | 7 | 8 | 79 | 99 | 0.089 | 14.3 |
| 26 | Ecum Secum | $1 / 06$ | 29108 | 53 | 72 | 87 | 15 | 18 | 0 | 87 | 105 | 403 | 503 | 0.216 | 17.2 |
| 27 | Folly | $15 / 08$ | 31/10 | 31 | 31 | 38 | 6 | 7 | 0 | 37 | 45 | 156 | 195 | 0.237 | 16.2 |
| 28 | Framboise | 15/06 | 15/10 | 55 | 68 | 82 | 39 | 47 | 0 | 107 | 129 | 324 | 405 | 0.330 | 36.4 |
| 29 | French | 1/09 | 31/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0.000 | 0.0 |
| 32 | Gaspereau: Brook | 1/0.6 | 29108 | 7 | 11 | 13 | 0 | 0 | 0 | 11 | 13 | 45 | 56 | 0.244 | 0.0 |
| 30 | Gaspereau: C. Breton | 15/06 | 15/10 | 7 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 24 | 30 | 0.083 | 0.0 |
| 31 | Gaspereau: Kings Co. | 15/05 | 15/08 | 46 | 38 | 46 | 39 | 47 | 0 | 77 | 93 | 465 | 581 | 0.166 | 50.6 |
| 33 | Gegogan | $1 / 06$ | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 34 | Gerratt | 15/06 | 15/10 | 2 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 11 | 14 | 0.182 | 50.0 |
| 35 | Gold | 10/05 | 15/08 | 278 | 441 | 534 | 104 | 126 | 0 | 545 | 659 | 2455 | 3067 | 0.222 | 19.1 |
| 36 | Grand | 15/06 | 15/10 | 247 | 258 | 312 | 62 | 75 | 0 | 320 | 387 | 2167 | 2707 | 0.148 | 19.4 |
| 37 | Great Village | 15/08 | 31/10 | 6 | 23 | 28 | 1 | 1 | 0 | 24 | 29 | 39 | 49 | 0.615 | 4.2 |
| 38 | Guysborough | 24/06 | 22/09 | 2 | 3 | 4 | 0 | 0 | 0 | 3 | 4 | 8 | 10 | 0.375 | 0.0 |
| 40 | Hal fway Brook | 1/06 | $29 / 08$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 11 | 0.000 | 0.0 |
| 39 | Harrington | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 41 | Indian Brook | 15/06 | 15/10 | 7 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 10 | 12 | 0.200 | 50.0 |
| 42 | Ingonish | 15/06 | 15/10 | 4 | 6 | 7 | 20 | 24 | 0 | 26 | 31 | 116 | 145 | 0.224 | 76.9 |
| 43 | Ingram | 1/06 | 15/08 | 13 | 9 | 11 | 0 | 0 | 0 | 9 | 11 | 43 | 54 | 0.209 | 0.0 |
| 44 | Inhabitants | 15/06 | 31/10 | 45 | 21 | 25 | 62 | 75 | 0 | 83 | 100 | 317 | 396 | 0.262 | 74.7 |
| 45 | Isaac's Harbour | 1/06 | 29/08 | 14 | 19 | 23 | 0 | 0 | 0 | 19 | 23 | 90 | 112 | 0.211 | 0.0 |
| 46 | Jordan | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 47 | Kennetcook | 15/08 | 31/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 0.000 | 0.0 |
| 48 | Kirby | $1 / 06$ | 29/08 | 6 | 9 | 11 | 7 | 8 | 0 | 16 | 19 | 37 | 46 | 0.432 | 43.8 |
| 49 | LaHave | 10/05 | 15/08 | 1097 | 2359 | 2854 | 553 | 669 | 0 | 2912 | 3523 | 10682 | 13344 | 0.273 | 19.0 |
| 50 | Larry's | $1 / 06$ | 29108 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 51 | Lawrencetown Lake | $1 / 06$ | $29 / 08$ | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 11 | 14 | 0.182 | 0.0 |
| 52 | Lequille | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 53 | Liscomb | $1 / 06$ | 29/08 | 119 | 54 | 65 | 7 | 8 | 0 | 61 | 74 | 627 | 783 | 0.097 | 11.5 |
| 54 | Little Basg | $15 / 08$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 127 | Little Lorraine | 15/06 | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 55 | Little Salmon | 1/06 | 29/08 | 1 | 0 | 0 | 10 | 12 | 0 | 10 | 12 | 30 | 37 | 0.333 | 100.0 |
| 56 | Lorraine Brook | 15/06 | 15/10 | 12 | 12 | 15 | 6 | 7 | 0 | 18 | 22 | 116 | 145 | 0.155 | 33.3 |
| 119 | Mabou | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 58 | Maccan | 15/08 | 31/10 | 113 | 116 | 140 | 29 | 35 | 0 | 145 | 175 | 863 | 1078 | 0.168 | 20.0 |
| 59 | Margaree | $1 / 06$ | 15/10 | 1486 | 464 | 561 | 1298 | 1570 | 0 | 1762 | 2132 | 10594 | 13234 | 0.166 | 73.7 |
| 60 | Marie Joseph | 15/06 | 15/10 | 18 | 23 | 28 | 2 | 2 | 0 | 25 | 30 | 73 | 91 | 0.342 | 8.0 |
| 57 | Martins | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 61 | Meander (Avon) | $15 / 08$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 62 | Medway | 10/05 | 31/07 | 415 | 502 | 607 | 171 | 207 | 0 | 673 | 814 | 4252 | 5311 | 0.158 | 25.4 |
| 63 | Mersey | 10/05 | 15/08 | 110 | 103 | 125 | 47 | 57 | 0 | 150 | 181 | 1600 | 1999 | 0.094 | 31.3 |
| 64 | Middler Lunenburg Co | 10/05 | 15/08 | 5 | 6 | 7 | 1 | 1 | 0 | 7 | 8 | 15 | 19 | 0.467 | 14.3 |
| 65 | Middle: Pictou Co. | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 66 | Middle: Victoria Co. | 1/06 | 15/10 | 144 | 43 | 52 | 231 | 279 | 0 | 274 | 332 | 694 | 867 | 0.395 | 84.3 |
| 67 | Mira | 15/06 | 15/10 | 26 | 12 | 15 | 14 | 17 | 0 | 26 | 31 | 197 | 246 | 0.132 | 53.8 |
| 68 | Moser | 1/06 | 29/08 | 111 | 159 | 192 | 5 | 6 | 0 | 164 | 198 | 965 | 1205 | 0.170 | 3.0 |
| 69 | Mushamush | 10/05 | 15/08 | 21 | 26 | 31 | 6 | 7 | 0 | 32 | 39 | 242 | 302 | 0.132 | 18.8 |
| 70 | Musquodoboit | $1 / 06$ | $29 / 08$ | 353 | 253 | 306 | 137 | 166 | 0 | 390 | 472 | 2536 | 3168 | 0.154 | 35.1 |
| 71 | Nappan | 15/08 | 31/10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 10 | 0.000 | 0.0 |
| 72 | Necum Teuch | $1 / 06$ | $29 / 08$ | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 73 | New Harbour | 1/06 | 29/08 | 24 | 26 | 31 | 1 | 1 | 0 | 27 | 33 | 260 | 325 | 0.104 | 3.7 |
| 74 | Nictaux | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 75 | Nine Mile | 10/05 | 15/08 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 0.000 | 0.0 |

- See variation order.

|  | River | Season dates |  | Observed <br> No. of | Numbers caught (including releases) |  |  |  |  |  |  | Effort |  | Catch per effort | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Begin | End |  | Gri | 18 e | Salmo |  | Unknown | Tot |  | No. of rod | od days |  |  |
| Code | Name | D M | D M | anglers | Obs. | Est. | Obs. | Est. | Obs. | Obs. | Egt. | Obs. | Ebt. | Fish/day | balmon |
| 76 | North : Colchester | 15/08 | 31/10 * | 72 | 117 | 142 | 8 | 10 | 0 | 125 | 151 | 398 | 497 | 0.314 | 6.4 |
| 77 | North : Victoria Co | 1/06 | 15/10 * | 162 | 134 | 162 | 331 | 400 | 0 | 465 | 563 | 1074 | 1342 | 0.433 | 71.2 |
| 78 | North Aspy | 15/06 | 15/10 | 24 | 6 | 7 | 27 | 33 | 0 | 33 | 40 | 86 | 107 | 0.384 | 81.8 |
| 120 | Northwest Brook (Riv | 15/06 | 15/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 0.000 | 0.0 |
| 79 | Paradise Brook | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 80 | Petite Riviere | 15/06 | 15/08 * | 67 | 164 | 198 | 17 | 21 | 0 | 181 | 219 | 879 | 1098 | 0.206 | 9.4 |
| 81 | Pomquet | 1/09 | 31/10 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 4 | 5 | 0.500 | 50.0 |
|  | Port Dufferin | 1/06 | 29/08 | 6 | 4 | 5 | 0 | 0 | 0 | 4 | 5 | 69 | 86 | 0.058 | 0.0 |
| 82 | Portapique | 15/08 | 31/10 | 13 | 15 | 18 | 1 | 1 | 0 | 16 | 19 | 37 | 46 | 0.432 | 6.3 |
| 132 | Porters Lake (East B | 1/06 | 29/08 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 0.333 | 0.0 |
|  | Pugwash | 1/09 | $31 / 10$ * | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 85 | Quoddy | 1/06 | 29/08 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 9 | 11 | 0.111 | 100.0 |
|  | Ramshead (Ramsey) | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 129 | River Bennett | 15/06 | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 122 | River Deny's | 15/06 | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 86 | River Hébert | 15/08 | $31 / 10$ * | 29 | 73 | 88 | 6 | 7 | 0 | 79 | 96 | 320 | 400 | 0.247 | 7.6 |
| 87 | River John | 1/09 | 31/10 | 59 | 15 | 18 | 82 | 99 | 0 | 97 | 117 | 214 | 267 | 0.453 | 84.5 |
|  | River Philip | 1/09 | 31/10 | 144 | 94 | 114 | 336 | 407 | 0 | 430 | 520 | 999 | 1248 | 0.430 | 78.1 |
| 89 | River Tillard | 15/06 | 15/10 | 22 | 7 | 8 | 7 | 8 | 0 | 14 | 17 | 73 | 91 | 0.192 | 50.0 |
| 90 | Rocky Run Porterb L. | 1/06 | 29/08 | 1 | , | 1 | 0 | 0 | 0 | 1 | 1 | 25 | 31 | 0.040 | 0.0 |
|  | Roseway | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
|  | Round Hill | 15/08 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 131 | Sackville | 10/05 | 15/08 | 18 | 46 | 56 | 8 | 10 | 0 | 54 | 65 | 130 | 162 | 0.415 | 14.8 |
| 95 | Saint Croix | 15/08 | 31/10 | 33 | 39 | 47 | 0 | 0 | 0 | 39 | 47 | 217 | 271 | 0.180 | 0.0 |
| 93 | Saint Esprit | 15/06 | 15/10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 10 | 0.000 | 0.0 |
| 94 | Saint Francis | 24/06 | 22/09 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 0.000 | 0.0 |
|  | Saint Mary's | 18/05 | 15/09 | 782 | 541 | 655 | 382 | 462 | 0 | 923 | 1117 | 5122 | 6398 | 0.180 | 41.4 |
|  | Salmon: Cape Breton | 15/06 | 15/10 | 46 | 6 | 7 | 17 | 21 | 0 | 23 | 28 | 227 | 284 | 0.101 | 73.9 |
| 98 | Salmon: Coichester | 15/08 | 31/10 * | 69 | 122 | 148 | 18 | 22 | 0 | 140 | 169 | 351 | 438 | 0.399 | 12.9 |
|  | Salmon: Digby Co. | 1/06 | 15/08 | 60 | 70 | 85 | 7 | 8 | 0 | 77 | 93 | 550 | 687 | 0.140 | 9.1 |
|  | Salmon: Guysborough | 24/06 | 22/09 | 177 | 242 | 293 | 174 | 211 | 0 | 416 | 503 | 1410 | 1761 | 0.295 | 41.8 |
|  | Salmon: Halifax Co. | 1/06 | 29/08 | 19 | 14 | 17 | 4 | 5 | 0 | 18 | 22 | 106 | 132 | 0.170 | 22.2 |
| 102 | Shinimikas | 1/09 | 31/10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0.000 | 0.0 |
| 103 | Ship Hbr.L.Charlotte | 1/06 | 29/08 | 36 | 41 | 50 | 3 | 4 | 0 | 44 | 53 | 368 | 460 | 0.120 | 6.8 |
| 104 | Shubenacadie | 15/08 | 31/10 | 75 | 59 | 71 | 15 | 18 | 0 | 74 | 90 | 404 | 505 | 0.183 | 20.3 |
| 105 | Sisaiboo | 10/05 | 15/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 123 | Skye | 15/06 | 15/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 106 | South | 1/09 | 31/10 | 8 | 10 | 12 | 1 | 1 | 0 | 11 | 13 | 26 | 32 | 0.423 | 9.1 |
| 107 | Stewiacke | 1/08 | $31 / 10$ * | 768 | 1099 | 1330 | 175 | 212 | 0 | 1274 | 1541 | 4803 | 6000 | 0.265 | 13.7 |
|  | Sutherland | 1/09 | $31 / 10$ | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 125 | Sydney | 15/06 | 15/10 | 3 | 0 | 0 | 2 | 2 | 0 | 2 | 2 | 7 | 9 | 0.286 | 100.0 |
| 108 | Tangier | 1/06 | 29/08 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 14 | 0.000 | 0.0 |
| 109 | Taylor Bay Brook | 1/06 | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 110 | Three Fathom Harbour | 1/06 | 29/08 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 111 | Tidnish | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 130 | Tracadie | 1/09 | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
|  | Tusket | $1 / 06$ | 15/08 * | 103 | 111 | 134 | 30 | 36 | 0 | 141 | 171 | 1128 | 1409 | 0.125 | 21.3 |
| 113 | Wallace | 1/09 | $31 / 10$ | 67 | 10 | 12 | 27 | 33 | 0 | 37 | 45 | 191 | 239 | 0.194 | 73.0 |
|  | Waugh | 1/09 | 31/10 | 24 | 4 | 5 | 4 | 5 | 0 | 8 | 10 | 74 | 92 | 0.108 | 50.0 |
| 117 | West Sheet Harbour | 1/06 | 29/08 * | 107 | 258 | 312 | 22 | 27 | 0 | 280 | 339 | 1657 | 2070 | 0.169 | 7.9 |
| 115 | West: Antigonish Co. | $1 / 09$ | $31 / 10$ | 99 | 74 | 90 | 180 | 218 | 0 | 254 | 307 | 420 | 525 | 0.605 | 70.9 |
| 116 | West: Pictou Co. | $1 / 09$ | 31/10 | 60 | 12 | 15 | 50 | 60 | 0 | 62 | 75 | 340 | 425 | 0.182 | 80.6 |
| 128 | Wright | $1 / 09$ | 31/10 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| Provin | ncial totals: |  |  | 8706 | 8850 | 10707 | 5753 | 6960 | 0 | 14603 | 17668 | 66146 | 82627 | 0.221 | 39.4 |

* See variation order.

| Diatrict A | Observed <br> No, of Anglers | Numbers caught (including releases) |  |  |  |  |  |  | Effort |  | Catch per of fort | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Grilse |  | Salmon |  | Unknown | Total |  | No, of rod daye |  |  |  |
|  |  | Obs. | Est. | Oba. | Est. | Obs. | Obe. | Est. | Obs. | Est. | fish/day | Salmon |
| 1 | 29 | 12 | 15 | 47 | 57 | 0 | 59 | 71 | 232 | 290 | 0.254 | 79.7 |
| 2 | 1519 | 470 | 569 | 1414 | 1711 | 0 | 1884 | 2279 | 10831 | 13530 | 0.174 | 75.1 |
| 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 423 | 197 | 238 | 773 | 935 | 0 | 970 | 1174 | 2221 | 2774 | 0.437 | 79.7 |
| 6 | 6 | 1 | 1 | 3 | 4 | 0 | 4 | 5 | 28 | 35 | 0.143 | 75.0 |
| 7 | 148 | 59 | 71 | 50 | 60 | 0 | 109 | 132 | 1027 | 1283 | 0.106 | 45.9 |
| 8 | 325 | 349 | 422 | 103 | 125 | 0 | 452 | 547 | 2572 | 3213 | 0.176 | 22.8 |
| 9 | 67 | 28 | 34 | 69 | 83 | 0 | 97 | 117 | 390 | 487 | 0.249 | 71.1 |
| 10 | 25 | 4 | 5 | 4 | 5 | 0 | 8 | 10 | 75 | 94 | 0.107 | 50.0 |
| 11 | 119 | 27 | 33 | 132 | 160 | 0 | 159 | 192 | 554 | 692 | 0.287 | 83.0 |
| 12 | 241 | 77 | 93 | 555 | 671 | 0 | 632 | 765 | 1374 | 1716 | 0.460 | 87.8 |
| 13 | 108 | 85 | 103 | 182 | 220 | 0 | 267 | 323 | 450 | 562 | 0.593 | 68.2 |
| 14 | 180 | 245 | 296 | 174 | 211 | 0 | 419 | 507 | 1422 | 1776 | 0.295 | 41.5 |
| 15 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 38 | 45 | 54 | 1 | 1 | 0 | 46 | 56 | 350 | 437 | 0.131 | 2.2 |
| 17 | 982 | 702 | 849 | 411 | 497 | 0 | 1113 | 1347 | 6308 | 7880 | 0.176 | 36.9 |
| 18 | 1 | 0 | 0 | 10 | 12 | 0 | 10 | 12 | 30 | 37 | 0.333 | 100.0 |
| 19 | 297 | 499 | 604 | 48 | 58 | 0 | 547 | 662 | 3177 | 3969 | 0.172 | 8.8 |
| 20 | 412 | 312 | 377 | 144 | 174 | 0 | 456 | 552 | 3049 | 3809 | 0.150 | 31.6 |
| 21 | 18 | 46 | 56 | 8 | 10 | 0 | 54 | 65 | 130 | 162 | 0.415 | 14.8 |
| 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 0.000 | 0.0 |
| 23 | 13 | 9 | 11 | 0 | 0 | 0 | 9 | 11 | 43 | 54 | 0.209 | 0.0 |
| 24 | 151 | 195 | 236 | 36 | 44 | 0 | 231 | 279 | 1223 | 1528 | 0.189 | 15.6 |
| 25 | 307 | 473 | 572 | 112 | 136 | 0 | 585 | 708 | 2717 | 3394 | 0.215 | 19.1 |
| 27 | 1164 | 2523 | 3052 | 570 | 690 | 0 | 3093 | 3742 | 11561 | 14442 | 0.268 | 18.4 |
| 28 | 526 | 605 | 732 | 228 | 276 | 0 | 833 | 1008 | 5922 | 7398 | 0.141 | 27.4 |
| 30 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 31 | 46 | 12 | 15 | 9 | 11 | 0 | 21 | 25 | 345 | 431 | 0.061 | 42.9 |
| 32 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 33 | 103 | 111 | 134 | 30 | 36 | 0 | 141 | 171 | 1128 | 1409 | 0.125 | 21.3 |
| 35 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 36 | 60 | 70 | 85 | 7 | 8 | 0 | 77 | 93 | 550 | 687 | 0.140 | 9.1 |
| 38 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 39 | 7 | 3 | 4 | 1 | 1 | 0 | 4 | 5 | 61 | 76 | 0.066 | 25.0 |
| 41 | 51 | 42 | 51 | 39 | 47 | 0 | 81 | 98 | 507 | 633 | 0.160 | 48.1 |
| 42 | 877 | 1197 | 1448 | 190 | 230 | 0 | 1387 | 1678 | 5431 | 6784 | 0.255 | 13.7 |
| 43 | 249 | 348 | 421 | 40 | 48 | 0 | 388 | 469 | 1241 | 1550 | 0.313 | 10.3 |
| 44 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 45 | 145 | 94 | 114 | 336 | 407 | 0 | 430 | 520 | 1002 | 1252 | 0.429 | 78.1 |
| 46 | 67 | 10 | 12 | 27 | 33 | 0 | 37 | 45 | 191 | 239 | 0.194 | 73.0 |
| Provinclal totale | - 8706 | 8850 | 10707 | 5753 | 6960 | 0 | 14603 | 17668 | 66146 | 82627 | 0.221 | 39.4 |

TABLE 25. 1989: Catch and effort by county.

| County |  | Observed | Numbers caught (Including releases) |  |  |  |  |  |  | Effort |  | Catch per effort | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. of | Grilse |  | Salmon |  | Unknown | Total |  | No. of rod days |  |  |  |
| Code | Name | Anglers | Obs. | Est. | Obs. | Est. | Obs. | Obs. | Est. | Obs. | Est. | fish/day | salmon |
| 1 | Arnapolis | 7 | 3 | 4 | 1 | 1 | 0 | 4 | 5 | 61 | 76 | 0.066 | 25.0 |
| 2 | Antigonish | 108 | 85 | 103 | 182 | 220 | 0 | 267 | 323 | 450 | 562 | 0.593 | 68.2 |
| 3 | Cape Breton | 154 | 60 | 73 | 53 | 64 | 0 | 113 | 137 | 1055 | 1318 | 0.107 | 46.9 |
| 4 | Colchester | 1042 | 1451 | 1756 | 219 | 265 | 0 | 1670 | 2020 | 6119 | 7644 | 0.273 | 13.1 |
| 5 | Cumberland | 363 | 299 | 362 | 399 | 483 | 0 | 698 | 844 | 2416 | 3018 | 0.289 | 57.2 |
| 6 | Digby | 60 | 70 | 85 | 7 | 8 | 0 | 77 | 93 | 550 | 687 | 0.140 | 9.1 |
| 7 | Guysborough | 1200 | 992 | 1200 | 586 | 709 | 0 | 1578 | 1909 | 8080 | 10093 | 0.195 | 37.1 |
| 8 | Halifax | 743 | 866 | 1048 | 210 | 254 | 0 | 1076 | 1302 | 6433 | 8036 | 0.167 | 19.5 |
| 9 | Hants | 109 | 98 | 119 | 15 | 18 | 0 | 113 | 137 | 628 | 784 | 0.180 | 13.3 |
| 10 | Inverness | 1519 | 470 | 569 | 1414 | 1711 | 0 | 1884 | 2279 | 10831 | 13530 | 0.174 | 75.1 |
| 11 | Kings | 51 | 42 | 51 | 39 | 47 | 0 | 81 | 98 | 507 | 633 | 0.160 | 48.1 |
| 12 | Lunenburg | 1472 | 2996 | 3625 | 682 | 825 | 0 | 3678 | 4450 | 14278 | 17836 | 0.258 | 18.5 |
| 13 | Pictou | 360 | 104 | 126 | 687 | 831 | 0 | 791 | 957 | 1928 | 2408 | 0.410 | 86.9 |
| 14 | Queens | 526 | 605 | 732 | 228 | 276 | 0 | 833 | 1008 | 5922 | 7398 | 0.141 | 27.4 |
| 15 | Richmond | 392 | 377 | 456 | 172 | 208 | 0 | 549 | 664 | 2962 | 3700 | 0.185 | 31.3 |
| 16 | Shelburne | 46 | 12 | 15 | 9 | 11 | 0 | 21 | 25 | 345 | 431 | 0.061 | 42.9 |
| 17 | Victoria | 452 | 209 | 253 | 820 | 992 | 0 | 1029 | 1245 | 2453 | 3064 | 0.419 | 79.7 |
| 18 | Yarmouth | 103 | 111 | 134 | 30 | 36 | 0 | 141 | 171 | 1128 | 1409 | 0.125 | 21.3 |
| Prov | incial totals: | 8706 | 8850 | 10707 | 5753 | 6960 | 0 | 14603 | 17668 | 66146 | 82627 | 0.221 | 39.4 |

TABLE 26. 1989: Catch and effort by salmon fishing area.

| Fishing Area |  | Observed | Numbers caught (including releases) |  |  |  |  |  |  | Effort |  | Catch per effort | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. of | Grilse |  | Salmon |  | Unknown | Total |  | No. of rod days |  |  |  |
| code | Name | Anglers | Obs. | Est. | Obs. | Est. | Obs. | Obs. | Est. | Obs. | Est. | fish/day | salmon |
| 19 | Cape Breton East | 998 | 646 | 782 | 1045 | 1264 | 0 | 1691 | 2046 | 6470 | 8082 | 0.261 | 61.8 |
| 18 | Gulf Shore Nova Scotia | 2224 | 767 | 928 | 2650 | 3206 | 0 | 3417 | 4134 | 14477 | 18084 | 0.236 | 77.6 |
| 20 | Eastern Shore | 1910 | 1803 | 2181 | 788 | 953 | 0 | 2591 | 3135 | 14336 | 17908 | 0.181 | 30.4 |
| 22 | Upper Bay of Fundy | 1335 | 1785 | 2160 | 306 | 370 | 0 | 2091 | 2530 | 8463 | 10572 | 0.247 | 14.6 |
| 21 | South West Nova Scotia | 2239 | 3849 | 4657 | 964 | 1166 | 0 | 4813 | 5823 | 22400 | 27981 | 0.215 | 20.0 |
| Provin | cial totals: | 8706 | 8850 | 10707 | 5753 | 6960 | 0 | 14603 | 17668 | 66146 | 82627 | 0.221 | 39.4 |

TABLE 27. 1989: Monthly catch by river.






* See variation order.

* For Cheticamp catch refer to Table 28 on page 68 .

Clyde $\quad$ River code: $16 \quad$ Season dates: $10 / 5 / 89$ to 15/ 8/89. *


* See variation order.

Cornwallis River code: 18 Season dates: 15/8/89 to 31/10/89.



- See variation order.

- See variation order.

* See variation order.

East: Sheet Harbour River code: 24 Season dates: $1 / 6 / 89$ to 29/8/89.

|  |  | Number of figh |  |  |  |  |  |  |  | Grilbe |  |  |  | Salmon |  |  |  | Percent large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  |  | Unknown | Total |  | Length |  | Welght |  | Length |  | Weight |  |  |
| No. | Name | Obs. | Est. | Obs. | Est |  | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 | June | 11 | 13 | 0 |  | 0 | 0 | 11 | 13 | 10 | 55.1 | 11 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 29 | 35 | 0 |  | 0 | 0 | 29 | 35 | 27 | 53.5 | 29 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 18 | 22 | 0 |  | 0 | 0 | 18 | 22 | 18 | 54.2 | 17 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| River | cotal: | 58 | 70 | 0 |  | 0 | 0 | 58 | 70 | 55 | 54.0 | 57 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.

- See variation order.

- See variation order.


Gaspereau: C. Breton River code: 30 Season dates: 15/6/89 to 15/10/89.


Gaspereau: Kings Co. River code: 31 Season dates: 15/5/89 to 15/ 8/89.

| Month |  | Number of fish |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. |  | Obs. |  | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 5 | May | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 61.0 | 1 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 6 | June | 11 | 13 | 0 | 0 | 0 | 11 | 13 | 11 | 56.5 | 11 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 25 | 30 | 0 | 0 | 0 | 25 | 30 | 25 | 54.8 | 25 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 50.8 | 1 | 1.4 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Rive | total: | 38 | 46 | 0 | 0 | 0 | 38 | 46 | 38 | 55.4 | 38 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |



## Gold

River coder 35 Season dates: $10 / 5 / 89$ to 15/8/89. *

|  |  | Number of flsh |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. | t. | Obs. |  | Obs. | Obs. | c. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
|  | May | 2 | 2 |  | 0 | 0 | 2 | 2 | 2 | 55.9 | 2 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 6 | June | 283 | 342 | 0 | 0 | 0 | 283 | 342 | 242 | 54.8 | 266 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 107 | 129 | 0 | 0 | 0 | 107 | 129 | 91 | 54.9 | 79 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 4 | 5 | 0 | 0 | 0 | 4 | 5 | 4 | 56.2 | 1 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 396 | 479 | 0 | 0 | 0 | 396 | 479 | 339 | 54.8 | 348 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.


[^4]

- See variation order.



* See variation order.

* See variation order.
Lawrencetown Lake River code: 51 Season dates; 1/6/89 to 29/8/89.


| Liscomb | River code: |  |  | 53 | Season dates: |  | 1/6/89 to 29/8/89. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of fish |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| Month | Gri | lse | salmon | Unknown | rot | 1 | Len | ch | Wei |  |  | gh | We |  | large |
| No. Name | Obs. |  | Obs. Est. | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 June | 12 | 15 | 00 | 0 | 12 | 15 | 11 | 54.3 | 12 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 July | 25 | 30 | 00 | 0 | 25 | 30 | 23 | 55.3 | 24 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 Aug | 3 | 4 | 00 | 0 | 3 | 4 | 3 | 55.9 | 3 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| River total: | 40 | 48 | 00 | 0 | 40 | 48 | 37 | 55.1 | 39 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |




- See variation order.

| Margaree |  | River code: |  |  |  |  | 59 |  |  | 1/6/89 to 15/10/89. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| Month |  | Grilse |  | Salmon |  |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large <br> salmon |
| No. | Name | Obs. | Est. | Obs. |  |  | Obs. | Obs. | st. | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| 6 | June | 45 | 54 | 0 |  | 0 | 0 | 45 | 54 | 32 | 55.9 | 43 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 123 | 149 | 0 |  | 0 | 0 | 123 | 149 | 94 | 55.8 | 106 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 63 | 76 | 0 |  | 0 | 0 | 63 | 76 | 52 | 56.1 | 60 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 80 | 97 | 0 |  | 0 | 0 | 80 | 97 | 72 | 57.6 | 74 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 48 | 58 | 0 |  | 0 | 0 | 48 | 58 | 41 | 57.5 | 38 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 359 | 434 | 0 |  | 0 | 0 | 359 | 434 | 291 | 56.5 | 321 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.


| Medway |  | River code: |  |  |  |  | 62 | Season dates: $10 / 5 / 89$ to 31/7/89. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
|  |  | Grilse |  | Salmon |  |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large <br> salmon |
| No. | Name | Obs. | Et. | Obs. | Est. |  | Obs. | Obs. | t. | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| 5 | May | 5 | 6 | 0 |  | 0 | 0 | 5 | 6 | 5 | 59.3 | 3 | 2.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 6 | June | 343 | 415 | 0 |  | 0 | 0 | 343 | 415 | 291 | 57.0 | 323 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 127 | 154 | 0 |  | 0 | 0 | 127 | 154 | 102 | 56.9 | 114 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Rive | total: | 475 | 575 | 0 |  | 0 | 0 | 475 | 575 | 398 | 57.0 | 440 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.

* See variation order.

Middle: Lunenburg Co River code: 64 Season dares: 10/5/89 to 15/8/89.


Middle: Victoria Co. River code: 66 Season dates: 1/ 6/89 to 15/10/89.

|  |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. | Est. | Obs. | Est. |  | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 | June | 2 | 2 | 0 |  | 0 | 0 | 2 | 2 | 2 | 52.1 | 2 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Aug | 3 | 4 | 0 |  | 0 | 0 | 3 | 4 | 3 | 53.3 | 3 | 2.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 6 | 7 | 0 |  | 0 | 0 | 6 | 7 | 6 | 55.7 | 6 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 23 | 28 | 0 |  | 0 | 0 | 23 | 28 | 21 | 55.8 | 22 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| River | total: | 34 | 41 | 0 |  | 0 | 0 | 34 | 41 | 32 | 55.3 | 33 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 |


| Mira |  | River code: |  |  |  | 67 | Season dates, 15/ 6/89 to 15/10/89. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of fish |  |  |  |  | Grilse |  |  |  |  |  | Salmon |  |  |  | Percent |
| Month |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large salmon |
| No. | Name | Obs. |  | Obs. |  | Obs. | Obs. |  | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| 6 | June |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | July | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 1 | 63.0 | 2 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 4 | 5 | 0 | 0 | 0 | 4 | 5 | 1 | 48.3 | 4 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 3 | 4 | 0 | 0 | 0 | 3 | 4 | 1 | 53.3 | 3 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 3 | 4 | 0 | 0 | 0 | 3 | 4 | 3 | 55.0 | 3 | 2.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 12 | 15 | 0 | 0 | 0 | 12 | 15 | 6 | 54.9 | 12 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |


| Mose |  | River code: |  |  |  | 68 Season dates: |  |  | 1/ 6/89 to 29/8/89. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of fish |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| Month |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Lengrh |  | Weight |  | large salmon |
| No. | Name | Obs. | Est. | Obs. |  | Obs. | Obs. | at. | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| 6 | June | 19 | 23 | 0 | 0 | 0 | 19 | 23 | 18 | 54.6 | 19 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 104 | 126 | 0 | 0 | 0 | 104 | 126 | 96 | 55.1 | 99 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 27 | 33 | 0 | 0 | 0 | 27 | 33 | 27 | 55.5 | 24 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 150 | 181 | 0 | 0 | 0 | 150 | 181 | 141 | 55.1 | 142 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |




- See variation order.


North : Colchester River code: 76 Season dates: 15/8/89 to 31/10/89. .

|  |  | Number of fish |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Welght |  | large salmon |
| No. | Name | Obs. |  | Obs. |  | Obs. | Obs. |  | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| $\begin{aligned} & 8 \\ & 9 \end{aligned}$ | Aug Sept |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Oct | 106 | 128 | 0 | 0 | 0 | 106 | 128 | 99 | 56.1 | 100 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Rive | total : | 106 | 128 | 0 | 0 | 0 | 106 | 128 | 99 | 56.1 | 100 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |

- See variation order.

North : Victoria Co River code: 77 Season dates: $1 / 6 / 89$ to 15/10/89. *


[^5]


* See variation order.


[^6]
River Hebert River code: 86 Season dates, 15/8/89 to 31/10/89. *

|  |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown |  | Total |  | Length |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. |  | Obs. |  |  | Obs. | Obs. E | Est. | No. | Mean | No. | Mean | No. | mean | No. | mean | salmon |
| 8 | Aug | 12 | 15 | 0 | 0 |  | 0 | 12 | 15 | 12 | 53.7 | 12 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 27 | 33 | 0 | 0 |  | 0 | 27 | 33 | 27 | 54.6 | 27 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 27 | 33 | 0 | 0 |  | 0 | 27 | 33 | 27 | 56.6 | 25 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 66 | 80 | 0 |  |  | 0 | 66 | 80 | 66 | 55.3 | 64 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |

- See variation order.

| River John |  | River code: |  |  |  |  | 87 | Season dates: |  | 1/ 9/89 to 31/10/89. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
|  |  | Grilse |  | Salmon |  |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large <br> salmon |
| No. | Name | Obs. |  | Obs. | . Est |  | Obs. | Obs. |  | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| $\begin{array}{r} 9 \\ 10 \end{array}$ | Sept Oct | 14 | 17 |  | 0 | 0 | 0 | 14 | 17 | 13 | 55.2 | 12 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 14 | 17 |  | 0 | 0 | 0 | 14 | 17 | 13 | 55.2 | 12 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |

River Philip River code: $88 \quad$ Season dates: $1 / 9 / 89$ to 31/10/89.

|  |  | Number of fish |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large |
| No. | Name | Obs. |  | Obs. |  | Obe. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 9 | Sept | 5 | 6 | 0 | 0 | 0 | 5 | 6 | 4 | 58.1 | 2 | 1.2 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 73 | 88 | 0 | 0 | 0 | 73 | 88 | 61 | 56.6 | 65 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 78 | 94 | 0 | 0 | 0 | 78 | 94 | 65 | 56.7 | 67 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |





| Saint Croix | River code: |  |  |  | 95 S | Season dates: $15 / 8 / 89$ to 31/10/89. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of lish |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| Month | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large |
| No. Name | Obs. | Est. | Obs. | Est. | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | Balmon |
| 8 Aug | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 54.0 | 2 | 1.3 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 Sept | 6 | 7 | 0 | 0 | 0 | 6 | 7 | 6 | 55.5 | 6 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 Oct | 15 | 18 | 0 | 0 | 0 | 15 | 18 | 14 | 58.3 | 13 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| River total: | 23 | 28 | 0 | 0 | 0 | 23 | 28 | 22 | 57.1 | 21 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |

Saint Mary's River code: 96 Season dates: 18/5/89 to 15/9/89.

|  |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown |  | Total |  | Length |  | Welght |  | Length |  | Weight |  |  |
| No. | Name | Obs. |  | Obs. |  |  | Obs. | Obs. | $6 t$. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | ealmon |
| 5 | May |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | June | 96 | 116 | 0 | 0 |  | 0 | 96 | 116 | 74 | 56.9 | 87 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 330 | 399 | 0 | 0 |  | 0 | 330 | 399 | 240 | 56.1 | 299 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 41 | 50 | 0 | 0 |  | 0 | 41 | 50 | 37 | 55.6 | 39 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 8 | 10 | 0 | 0 |  | 0 | 8 | 10 | 8 | 56.5 | 7 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 475 | 575 | 0 | 0 |  | 0 | 475 | 575 | 359 | 56.2 | 432 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.

Salmon: Cape Breton River coder 97 Season datea: 15/ 6/89 to 15/10/89.

|  |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown | Total |  |  | Length |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. |  | Obs. |  | Obs. | Obs, Est. |  |  | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 | June |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | July |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  | 1 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 55.9 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 5 | 6 | 0 | 0 | 0 |  | 5 | 6 | 5 | 58.2 | 4 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Riv | total: | 6 | 7 | 0 | 0 | 0 |  | 6 | 7 | 6 | 57.8 | 4 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |




Salmon: Digby Co. $\quad$ River coder 99 Season dates: 1/ 6/89 to 15/8/89.

|  |  | Number of fish |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent <br> large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown |  | Total |  | Length |  | Weight |  | Length |  | Weight - |  |  |
| No. | Name | Obs. |  | Obs. |  |  | Obs, | Obs. |  | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 | June | 43 | 52 | 0 | 0 |  | 0 | 43 | 52 | 38 | 59.3 | 39 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 24 | 29 | 0 | 0 |  | 0 | 24 | 29 | 17 | 57.2 | 23 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rive | total: | 67 | 81 | 0 | 0 |  | 0 | 67 | 81 | 55 | 58.7 | 62 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |

Salmon, Guysborough River code, 100 Season dates: 24/6/89 to 22/9/89. *

|  |  | Number of flah |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown |  | Total |  | Lengr $h$ |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. | Est. | Obs. |  |  | Obs. | Obs. E | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 | June | 17 | 21 | 0 | 0 |  | 0 | 17 | 21 | 15 | 53.4 | 16 | 2.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 144 | 174 | 0 | 0 |  | 0 | 144 | 174 | 114 | 55.7 | 116 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 50 | 60 | 0 | 0 |  | 0 | 50 | 60 | 41 | 55.2 | 49 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 21 | 25 | 0 | 0 |  | 0 | 21 | 25 | 17 | 54.1 | 21 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| River | totalı | 232 | 281 | 0 | 0 |  | 0 | 232 | 281 | 187 | 55.2 | 202 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.

Salmon: Halifax Co. River coder 101 Season dates: 1/6/89 to 29/8/89.


Ship Hbr.L.Charlotte River code: 103 Season dates: 1/6/89 to 29/8/89.

|  |  | Number of fish |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  |  |
| No. | Name | Obs. |  | Obs. |  | Obs. | Obs. |  | No. | Mean | No. | Mean | No. | Mean | No. | Mean | salmon |
| 6 | June | 20 | 24 | 0 | 0 | 0 | 20 | 24 | 20 | 56.6 | 20 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 7 | July | 18 | 22 | 0 | 0 | 0 | 18 | 22 | 18 | 56.7 | 18 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8 | Aug | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 50.8 | 1 | 1.4 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 39 | 47 | 0 | 0 | 0 | 39 | 47 | 39 | 56.5 | 39 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0.0 |


| Number of fish |  |  |  |  |  |  |  |  |  | Grilse |  |  |  | Salmon |  |  |  | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Gri |  | Sal | mon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large |
| No. | Name | Obe. |  | Obe. | Est. |  | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | NO. | Mean | salmon |
| 8 | Aug | 2 | 2 | 0 |  | 0 | 0 | 2 | 2 | 2 | 45.1 | 2 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 11 | 13 | 0 |  | 0 | 0 | 11 | 13 | 9 | 54.4 | 9 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 38 | 46 | 0 |  | 0 | 0 | 38 | 46 | 34 | 56.1 | 35 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Riv | total: | 51 | 62 | 0 |  | 0 | 0 | 51 | 62 | 45 | 55.3 | 46 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |



| Stewiacke |  | River code: 107 |  |  |  |  | Season dates: |  | 1/8/89 to 31/10/89. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of fish |  |  |  |  |  |  | Grile |  |  |  | Salmon |  |  |  | Percent |
| Monch |  | Grilse |  | Salmon |  | Unknown | Total |  | Length |  | Weight |  | Length |  | Weight |  | large <br> salmon |
| No. | Name | Obs. | Est. | Obs. |  | Obs. | Obs. | Est. | No. | Mean | No. | Mean | No. | Mean | No. | Mean |  |
| 8 | Aug | 116 | 140 | 0 | 0 | 0 | 116 | 140 | 102 | 56.2 | 110 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | Sept | 354 | 428 | 0 | 0 | 0 | 354 | 428 | 315 | 56.3 | 315 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 10 | Oct | 429 | 519 | 0 | 0 | 0 | 429 | 519 | 399 | 56.5 | 369 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Rive | total: | 899 | 1088 | 0 | 0 | 0 | 899 | 1088 | 816 | 56.4 | 794 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0.0 |

* See variation order.

* See variation order.



- See variation order.



Table 28. Estimated number of salmon and grilse angled on the Cheticamp River, 1989.

| Month | Salmon <br> released | Grilse <br> retained | Rod-days |
| :--- | :---: | :---: | ---: |
| May | 4 |  | 6 |
| June | 83 | 5 | 254 |
| July | 54 | 9 | 220 |
| August | 12 | 5 | 41 |
| September | 9 | 13 | 42 |
| Total | 162 | 32 | 563 |

TABLE 29. Nova Scotia variation orders, fishing prohibitions and special seasons, 1989.
Barney's River Closed to fishing in those waters upstream from a point 500 m downstream of the number 245 highway bridge crossing the river from January 1 to April 14, 1989.

| Chiganois River | Closed to fishing in those waters downstream from the Canadian <br> National Railway Bridge in Belmont to the number 2 Highway from <br> April 15 to May 10, 1989. |
| :--- | :--- |
| Clyde River | Opened to fishing in those waters downstream from Quin's Falls <br> from September 11 to October 15, 1989. |
| Country Harbour River | Closed to fishing in those waters from Lewis Brook upstream to, but <br> not including Country Harbour Lake, from August 3 to September 1, | 1989.


| Debert River | Closed to fishing in those waters downstream from the Canadian National Railway bridge to its confluence with the Cobequid Bay from April 15 to May 10, 1989. |
| :---: | :---: |
| East River, Sheet Harbour | Closed to fishing in those waters upstream from a point, as marked by a fishery officer, 200 metres below the Nova Scotia Power Corporation power house to Barrier Dam from June 1 to September 30, 1989. |
| East River (Pictou County) | Closed to fishing in those waters upstream from the George Street bridge in New Glasgow to the number 583 highway bridge in Springville from January 1 to May $15,1989$. |
| Economy River | Closed to fishing in those waters downstream from the mouth of Callaghan Brook to the number 2 highway bridge from April 15 to May 10, 1989. |
| Folly River | Closed to fishing in those waters downstream from the Canadian National Railway bridge to its confluence with the Debert River from April 15 to May 10, 1989 |
| French River | Closed to fishing in those waters upstream from a point 500 m downstream of the number 245 highway bridge crossing the river from January 1 to April 14, 1989. |

TABLE 29. Nova Scotia variation orders, fishing prohibitions and special seasons, 1989. (continued)

| Gold River | (1) | Closed to fishing in those waters from the junction with the Larder River, downstream to a point marked by a fishery officer, approximately 90 m upstream from the number 3 highway bridge crossing that river in the community of Gold River from April 1 to May 9, 1989. |
| :---: | :---: | :---: |
|  | (2) | Closed to fishing in that portion of the river, as marked by a fishery officer, and known locally as the "Dipping Pool", located between the "Cable Pool" and the "Kill Devil Pool" from June 1 to August 15, 1989. |
|  | (3) | Closed to fishing in those waters downstream from the Rosebank bridge at New Ross to the Trunk 3 highway bridge at Gold River, but not including any tributaries of that river, from August 3 to December 31, 1989. |
| Grand River | (1) | Closed to fishing in those waters between those points, as marked by a fishery officer, approximately 90 m upstream and 90 m downstream from Grand River Falls from July 2 to October 15, 1989. |
|  | (2) | Closed to fishing in those waters from the highway bridge at Grand River upstream to Morrison's Bridge at Loch Lomond Lake from July 7 to July 11, and from July 27 to September 14, 1989. |
| Great Village River |  | Closed to fishing in those waters downstream from the mouth of Spencer's Brook to the marshland dyke aboiteau from April 15 to May 10, 1989. |
| Ingonish River |  | Closed to fishing in all waters from April 15 to May 15, 1989. |
| Kirby River |  | Closed to fishing in those waters 15 m downstream and 15 m upstream from the number 24 highway bridge at Sheet Harbour Passage from June 1 to September 30, 1989. |
| LaHave River | (1) | Closed to fishing in those waters upstream from Morgan Falls from January 1 to December 31, 1989. |
|  | (2) | Closed to fishing in those waters of the Main Branch downstream from a point at the south end of Wentzells Lake, as marked by a fishery officer, to a point 825 m downstream from the Canadian National Railway bridge from April 1 to May 9, 1989. |
|  | (3) | Closed to fishing in those waters of Wentzells Lake on the Main Branch from April 1 to April 30, 1989. |
|  | (4) | Closed to fishing in those waters of Texas Lake on the North Branch from April 1 to April 30, 1989. |
|  | (5) | Closed to fishing in those waters of New Germany Lake on the Main Branch from April 1 to April 30, 1989. |
|  | (6) | Closed to fishing in those waters immediately below Morgan Falls Fishway, as marked by a fishery officer, from June 1 to December 31, 1989. |

TABLE 29. Nova Scotia variation orders, fishing prohibitions and special seasons, 1989. (continued)

LaHave River (continued)

Maccan River

Margaree

Medway

Mersey

Musquodoboit River

North (Colchester)

North (Victoria)
(7) Opened to fishing in those waters upstream from Morgan Falls, lying between Feindel's Bridge on the Lower Branch Road (highway number 538 ) in New Germany and the Cherrytield Bridge (highway number 532) at Cherryfield, from June 15 to July 31, 1989.
(8) Closed to fishing from August 3 to December 31, 1989
(a) in those waters in the North Branch below Sherbrooke Lake, but not including any tributaries of that river;
(b) in those waters below New Germany Lake, but not including any tributaries of that river;
(c) in those waters below Rhyno Lake, but not including any tributaries of that branch.

Closed to fishing in those waters downstream from the number 2 highway Bridge at Southampton to the highway bridge at Maccan from April 15 to May 10, 1989.

Closed to fishing in those waters of the Northeast Branch upstream from the Big Intervale bridge, but not including any tributaries of that branch, from January 1 to December 31, 1989.
(1) Closed to fishing in those waters from a location marked by a fishery officer above the Westfield highway bridge, upstream to the foot of McGowan Lake, from June 1 to December 31, 1989.
(2) Closed to fishing in those waters upstream from the foot of McGowan Lake, including all branches and tributaries, from June 1 to December 31, 1989.

Opened to fishing in those waters 25 yards downstream from the lower entrance of the Cowie Falls fishway from September 19 to October 15, 1989.

Closed to fishing in those waters from the sea upstream to and incuding Plaster Rock Pool from August 4 to December 31, 1989.

Closed to fishing in those waters downstream from the mouth of the West Branch North River to its confluence with the Salmon River from April 15 to May 10, 1989.
(1) Closed to fishing in those waters upstream from the North River bridge from April 15 to May 31 and from August 2 to September 14, 1989.
(2) Closed to fishing from June 1 to December 31, 1989
(a) in those waters of the Pot Hole, so called, lying immediately below Little Falls and downstream for a distance of approximately 7.6 m to a point as marked by a fishery officer;
(b) in those waters of the Pot Hole, so called, lying immediately below Twin Falls and downstream for a distance of approximately 9.1 m to a point as marked by a fishery officer;
(c) in those waters lying immediately below Big Falls and downstream for a distance of approximately 22.8 m to a point as marked by a fishery officer.

TABLE 29. Nova Scotia variation orders, fishing prohibitions and special seasons, 1989. (continued)


## APPENDICES

Alphabetical index to map





## Numerical index to map




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| :---: |
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| Cornwallis. |
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| st. Crotx (Hanta Co |
| Kennetcook |
| Shubenacadie. |
| Stewiacke |
| Salmon (Colcheste |
| North (Colchester |
| Chiganots |
| Debert. |
| Folly |
| Great Village |
| Portapique |
| Bass (Colchester |
| Little Bass |
| Economy |
| Harringto |
| Diligent |
| Apple |
| River H |
| Maccan. |
| Napan (Cumberland |
| Tantramar |
| moisell |
| Crooked Cre |
| Shepody |
| West (Alb |
| na. |
| Pointe Wo |
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## SALMON FISIIINE AREAS

## Gulf Region

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16. Miramichi
17.P.E.I.
17. Gulf Shore Nova Scotia
Scotia-Fundy Region
18. Saint John - Fundy
19. Cape Breton -East
20. Eastern Shore
21. Upper Bay of Fundy
21.Southwestern Nova Scotia

## LEGEND:

-.... County Boundary
---Area Boundary
—Scotia Fundy/Gulf Boundary

## Gulf Region

Miramichi

Prince Edward Island
Gulf Shore Nova Scotia

Scotia-Fundy Reqion
23

19

21

Upper Bay of Fundy
Saint John - Fundy

Cape Breton East

Eastern Shore Nova Scotia

Uper Bay ol Fundy

Southwest Nova Scotia

Bass, Benjamin, Caraquet, Charlo, Eel, Jacquet, Kedgwick, Little, Little Tracadie, Middle (Gloucester Co.), Millstream, Nepisiguit, Nigadoo, Patapedia, Pokemouche, Restigouche, South Caraquet, Tetagouche, Tracadie, Upsalquitch.

Aboujagane, Baie Verte, Bartholomew, Bartibog, Bay du Vin, Black (Kent Co.), Black (Northumberland Co.), Buctouche, Burnt Church, Cains, Chockpish, Cocagne, Dungarvon, Gaspereau (Westmorland Co.), Kouchibouguac, Kouchibouguacis, Little Southwest Miramichi, Napan (Northumberland Co.), Northwest Miramichi, Renous, Richibucto, Scoudouc, Sevogle, Shediac, Southwest Miramichi, Tabusintac, Timber.

Midgell , Morell, West (Queens Co.).
Barney's, Cheticamp, East (Pictou Co.), French, Mabou, Margaree, Middle (Pictou Co.), Pomquet, Pugwash, River John, River Philip, Shinimikas, South (Antigonish Co.), Tidnish, Wallace, Waugh, West (Antigonish Co.), West (Pictou Co.).

Alma, Big Salmon, Black (Saint John Co.), Canaan, Coverdale, Crooked Creek, Demoiselle Creek, Digdequash, Hammond, Irish, Kennebecasis, Keswick, Little (Saint John Co.), Magaguadavic, Mosher (Saint John Co.), Nashwaak, Nerepis, New, Oromocto, Peticodiac, Pocologan, Point Wolfe, Poliet, Saint John, St. Croix, Salmon (Queens Co.), Salmon (Victoria Co.), Shepody, Tantramar, Tobique, Turtle Creek, Waweig, Weldon Creek, West (Albert Co,) .

Aconi Brook, Baddeck, Barachois, Catalone, Framboise, Gaspereau (Cape Breton Co.), Gerratt Brook, Grand, Indian Brook, Ingonish, Inhabitants Lorraine Brook, Marie Joseph, Middle (Victoria Co,), Mira, North Aspy, North (Victoria Co.), River Tillard, Salmon (Cape Breton Co.).

Chezzetcook, Clam Harbour, Cole Harbour, Country Harbour, East (Sheet Harbour), Ecum Secum, Gaspereau Brook, Gegogan Brook, Guysborough, Indian, Isaac's Harbour, Kirby, Larry's, Liscomb, Little Salmon (Lake Major), Moser (Halifax Co.), Musquodoboit, New Harbour, Necum Teuch, Quoddy, Rocky Run, St. Mary's, Salmon (Guysborough Co.), Salmon (Halifax Co.), Salmon River (Lawrencetown Lake), Salmon (Port Dufferin), Ship Harbour, Tangier, Taylor Bay Brook, Three Fathom Harbour Brook, West (Sheet Harbour).

Annapolis, Apple, Bass (Colchester Co.), Bear, Chiganois, Cornwallis, Debert, Diligent, Economy, Folly, Gaspereau (Kings Co.), Great Village, Harrington, Kennetcook, Lequille, Little Bass, Maccan, Nappan (Cumberland Co.), Nictaux, North (Colchester Co.), Paradise, Portapique, River Hebert, Round Hill, St. Croix (Hants Co.), Salmon (Colchester Co.), Shubenacadie, Stewiacke.

Barrington, Broad, Clyde, East (Lunenburg Co.), Goid, Ingram, Jordan, LaHave, Martins Brook, Medway, Mersey, Middle (Lunenburg Co.), Mushamush, Nine Mile, Petite Rivière, Roseway, Sable, Sackville, Salmon (Digby Co.), Sissiboo, Tusket.

## APPENDIX 2

## CALCULATION OF CATCH AND EFFORT ESTIMATES

Nova Scotia salmon anglers are required to complete and return catch and effort cards which are attached to their licenses. Some cards are returned without prompting. In 1989, a single reminder letter was mailed to those who had not returned cards.

The overall response from the 8,615 licensed anglers was 73\%. One hundred and sixty-nine cards were not useable (illegible or incomplete) which left 6,138 completed cards (71.2\%) for analysis and estimation of catch and effort.

Extrapolating catch and effort data to estimate totals was accomplished using a ratio technique which was adjusted for response bias. Essentially, the ratio technique is the catch and effort per angler adjusted upwards to reflect catch and effort for the total number of licensees. The "ratio" is $L / r$ where $L$ is the number of licenses sold and $r$ is the total number of responses (licensed stubs) received. For example, the estimated total provincial effort ( $\hat{e}_{p}$ ) is calculated:

$$
\hat{e}_{p}=\frac{L}{r} \times e_{p}
$$

where $\hat{e}_{p}=$ estimated provincial angler effort and $e_{p}$ is the total reported provincial effort from all license stubs received. This procedure is repeated to estimate catch. Estimation of total catch and effort for each river is acheived in the same manner. Calculation of all estimates requires application of the bias adjustment factor, as described below.

An adjustment for bias is necessary because of the nature of the survey. Participants in an activity, when asked to voluntarily supply information related to that activity, typically respond at rates reflective of their level of interest. In other words, the more active or interested anglers are more likely to respond than are the casual fishermen. As a result, the data received does not represent the average angler but the more successiul or more active angler. This phenomenon is commonly known as response bias. Extrapolation from the "biased" data to account for the catch of nonrespondents would result in an overestimate of catch and effort. Hence the need for a bias adjustment factor.

## CALCULATION OF A BIAS ADJUSTMENT FACTOR

During the years 1983-87, as many as three reminder letters were sent to nonrespondents.

The resulting response, which exceeded $90 \%$ in all years, was extrapolated to $100 \%$ using a regression technique described in O'Neil et al. (1989).

Angler responses for the 1983-87 seasons were placed in one of four categories depending on when they were received: before prompting voluntary (VOL); after the first reminder letter post prompt 1 (PP1); after the second reminder letter - post prompt 2 (PP2); and after the third reminder letter - post prompt 3 (PP3). Estimates of catch and effort extrapolated from the combined data from the four response categories had to account for less than 10\% nonresponse. These estimates are referred to below as "complete" estimates. In 1989, since only a single reminder letter was used, data were confined to the VOL and PP1 categories.

A bias adjustment factor was arrived at as follows:

Step (1) data from each of the previous five years (1983-87) was separated to produce VOL and PP1 categories.

Step (2) The resulting VOL + PP1 data was extrapolated to account for supposed nonresponse using the ratio technique described above.

Step (3) The resulting biased catch and effort estimates calculated in step two, for all five years, were compared with the complete estimates to calculate a weighted mean ratio of complete to biased estimates. The ratio was applied to the biased 1989 data to adjust for response bias.

As a means of testing the validity of applying a five-year weighted mean bias adjustment factor, regressions describing the relationship between response rate and angler effort were compared for the 1983-87 period. An analysis of covariance indicated that the slopes and intercepts were similar ( $p>0.05$ ). Therefore, it could be concluded that angler behaviour with respect to response, i.e., response bias, was similar in five separate years. Accordingly, application of that trend to adjust the 1989 and subsequent years biased estimates provide more realistic estimates of catch and effort.

## APPENDIX 3

## GLOSSARY

| angle (angled) | to fish (fished) with rod and line using an artificial fly. |
| :---: | :---: |
| bright fish | - a mature, adult Atlantic salmon that has entered firesh water prior to spawning. |
| CAFSAC | The Canadian Atlantic Fisheries Scientific Advisory Committee. |
| catch per unit effort | - the number of large salmon or grilse caught, either retained or released, per rodday. |
| CPUE | abbreviation for catch per unit effort. |
| estimated catch | - catch reported by anglers plus an estimate of catch by anglers who have not reported. A description of the estimation technique is provided in Appendix 2. |
| fecundity | number of eggs per unit body weight (relative fecundity). |
| grilse | an adult Atlantic salmon which matures after one winter at sea. |
| harvest | - fish removed from the population. Harvest, retained catch and kill are synonymous. Harvest does not include released fish. |
| kelt | - an adult Atlantic salmon that has spawned and has not yet left fresh water after spawning prior to its return to the ocean. |
| large salmon | an adult Atlantic salmon that has matured after two or more winters in the ocean. |
| license stub | - a post card attached to the Atlantic salmon license which provides for reporting catch and effort data. |
| multi-sea-winter salmon | - a maturing adult Atlantic salmon that has spent more than one winter at sea; synonymous with large salmon. |
| observed catch | - the sum of the catch from license stubs of anglers who reported. |
| one-sea-winter salmon | - an adult Atlantic salmon which matured after one winter at sea; synonymous with grilse. |
| released fish | - a fish which is not killed upon being caught but is released alive into the river. The release may be by breaking or cutting the line or by removing the hook from a landed fish. |
| retained fish | - an Atlantic salmon which is killed upon being angled. |
| rod-day | any part of a day spent fishing on a river is considered a rod-day. An angler may fish a "rod-day" on more than one river in one day. For example, an angler who fishes two rivers in one day has fished two rod-days, one rod-day on each river. |
| spawn (verb) | - the act of reproduction in fish. |
| stock | - a genetically unique strain of Atlantic salmon which homes to a single river is typically thought of as an Atlantic salmon stock. |
| word-of-mouth | a method of gathering catch and effort data which is based on some observation, some personal accounts of catch or effort and much hearsay and guesswork to account for that which was not observed. |


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[^1]:    ${ }^{1}$ The salmon angling license cost $\$ 16.00$. Holders of a salmon license could fish for any species where angling was permitted. Holders of a general fishing license could not fish for salmon. In 1988 and earlier the general fishing license was free. The fee for the general license increased to $\$ 10.00$ in 1989. The higher general license fee caused many fishers to opt for the salmon license in 1989 thus causing the large increase in number of salmon license holders.

[^2]:    1. CPUE should be considered a minimum as large salmon released data is underestimated.
[^3]:    1. Retained fish per rod-day.
[^4]:    - See variation order.

[^5]:    - See variation order.

[^6]:    - See variation order.

