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1989 Atlantic Salmon Sport Catch Statistics Maritime Provinces

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1996

Canadian Data Report of Fisheries and Aquatic Sciences No. 999





Canadian Data Report of Fisheries and Aquatic Sciences

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1989 ATLANTIC SALMON SPORT CATCH STATISTICS - MARITIME PROVINCES

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Correct citation for this publication:

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: 81 p.

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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 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 50 961 saumons, soit 36 376 madeleineaux capturés et gardés, 1 562 madeleineaux remis à l'eau et 13 023 gros saumons (plus de 63 cm de longueur à la fourche) remis à l'eau. Les employés des régions concernées ont estimé à 25 060 saumons de montée (19 862 madeleineaux gardés) et 7 996 charognards les prises obtenues dans 37 rivières 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 17 667 gros saumons et madeleineaux. A Ile-du-Prince-Édward, les prises se sont limitées à 238 madeleineaux. En 1989, les pêcheurs ont consacré à la pêche 82 722 journées au Nouveau-Brunswick et 82 627 en Nouvelle-Écosse. La prise par effort unitaire (poissons par journée de pêche) pour les Maritimes a été de 0,300. Ð

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.

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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 (1984-88) 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 Island.

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 1970s 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 36,102¹ in 1989 (Table 8). In Nova Scotia, the number of non-resident license holders increased 30% from 1,263 in 1988 to 1,641 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.

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.

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			Numbers of larg Prince	e samon and	Newfoundland	
Year	New	Nova	Edward		and	
angled	Brunswick	Scotia	Island	Quebec	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	41,4271	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

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

¹ Claytor and Mullins 1988; O'Connell, et al. 1988.

	Numbers of large salmon and grilse							
Year	N	lew Brunswick		Nova	Prince Edward			
angled	Kelt	Bright	Total	Scotia	Island	Total		
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 2.	Atlantic salmon angling	catches ((retained fish) by '	vear angled	 Maritime Provinces. 	1970-89.

			Num	bers of grilse		
Year of	Nev	v Brunswick		Nova	Prince Edward	
run	Kelt	Bright	Total	Scotia	Island	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

TABLE 3. Atlantic salmon angled and retained by year of run¹, Maritime Provinces, 1970-88.

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, b	y year of catch, 1970-89.
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							Prince Edw	vard
	Maritime	S	Nova Sco	tia	New Bruns	wick	Island	
Year	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 '	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 ¹	152,978	0.296	69,310	0.230	81,303	0.357	2,365	0.201
1988 '	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	,	0.000	,					2.200
1984-88	162,829	0.301	69,968	0.218	90,454	0.371	2,408	0.093

1. CPUE should be considered a minimum as large salmon released data is underestimated.

			Numbers grilse				
	Scotia Fundy						
Year	Kelt	Bright	Total	Kelt	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	

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

N/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.

	19	986	19	987	19	988	198	39
River (site)	1SW	MSW	1SW	MSW	1SW	MSW	1SW	MSW
LaHave (Morgan Falls)	1676	647	3102	611	3520	449	2573	681
	(130)	(76)	(573)	(79)	(699)	(59)	(489)	(180)
Liscomb (Falls)	1502	225	2137	142	908	120	820	146
. ,	(766)	(108)	(523)	(54)	(431)	(44)	(288)	(71)
Saint John (Mactaguac)	7046	4143	8000	3435	9191	2600	9587	4291
	(699)	(487)	(2894)	(344)	(1129)	(670)	(1170)	(437)
St. Croix (Milltown)	63	257	195	177	102	292	116	115
,	(25)	(53)	(67)	(42)	(9)	(102)	(37)	(21)
Tusket (Falls) ¹	138	34	851	28	427	82	410	76
	(71)	(8)	(735)	(11)	(348)	(59)	(314)	(65)

1. Incomplete trapping in all 4 years.

	Number	Number of	
Year	of grilse	large salmon	Total
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

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

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 E	Brunswick ¹		Ν	Nova Scotia		Prince Edward Island ²
Year	Resident Nor	n-resident	Total	Resident N	Ion-resident	Total	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	

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)

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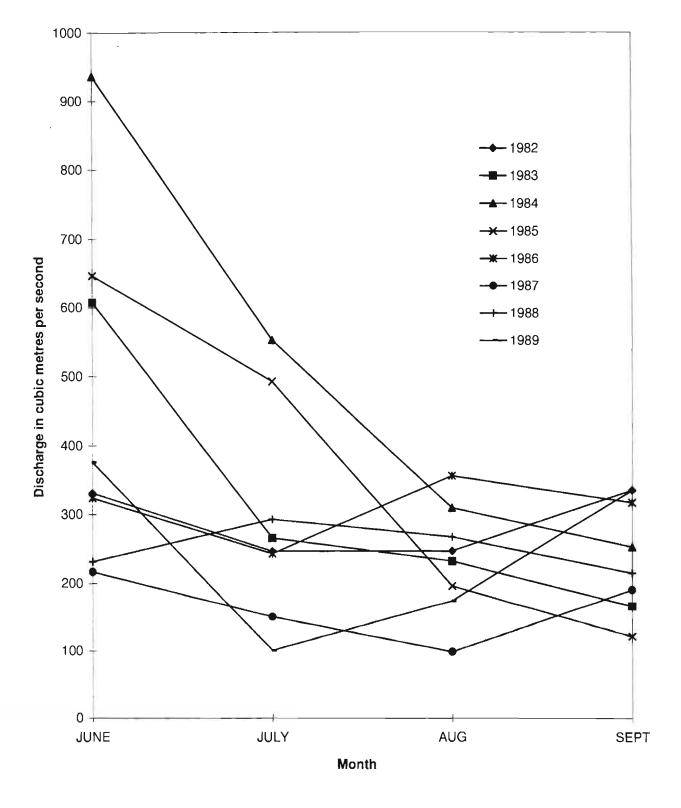


Fig. 1. Mean monthly discharge, June to Septmeber, summed for 12 rivers in New Brunswick and Nova Scotia for the years 1982-89. (Rivers: Bartibog, Kennebecasis, Magaguadavic, Nashwaak, Northwest Miramichi, Restigouche, Southwest Miramichi, Gold, LaHave, Musquodoboit, Northeast Margaree, and St. Mary's.)

Source: Anonymous, 1982, 1983,..,1989.

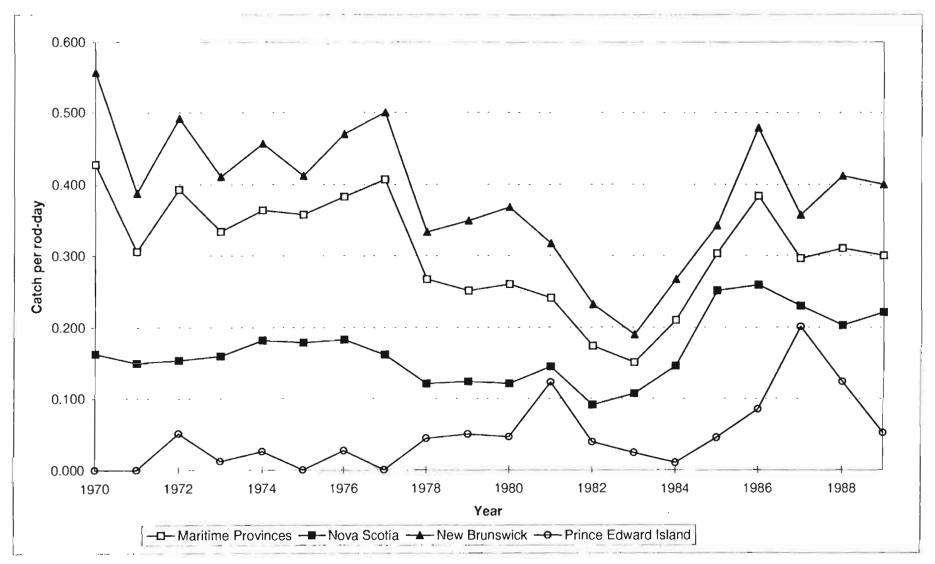


Figure 2. Catch per rod-day for New Brunswick, Nova Scotia, Prince Edward Island and the 3 provinces combined, 1970-1989.

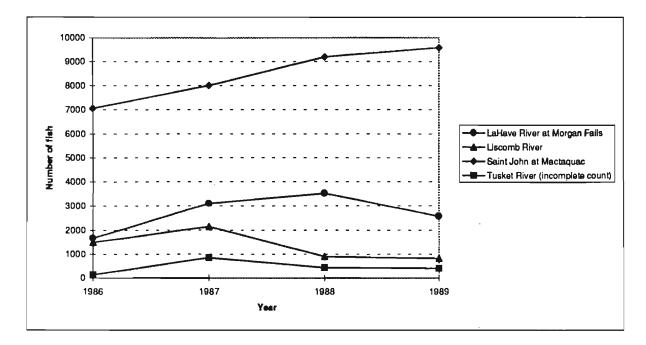


Figure 3. Counts of one-sea-winter Atlantic salmon at 4 counting facilities in the Maritime Provinces, 1986-1989.

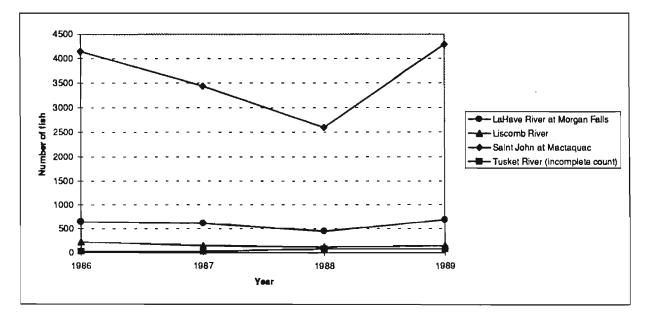
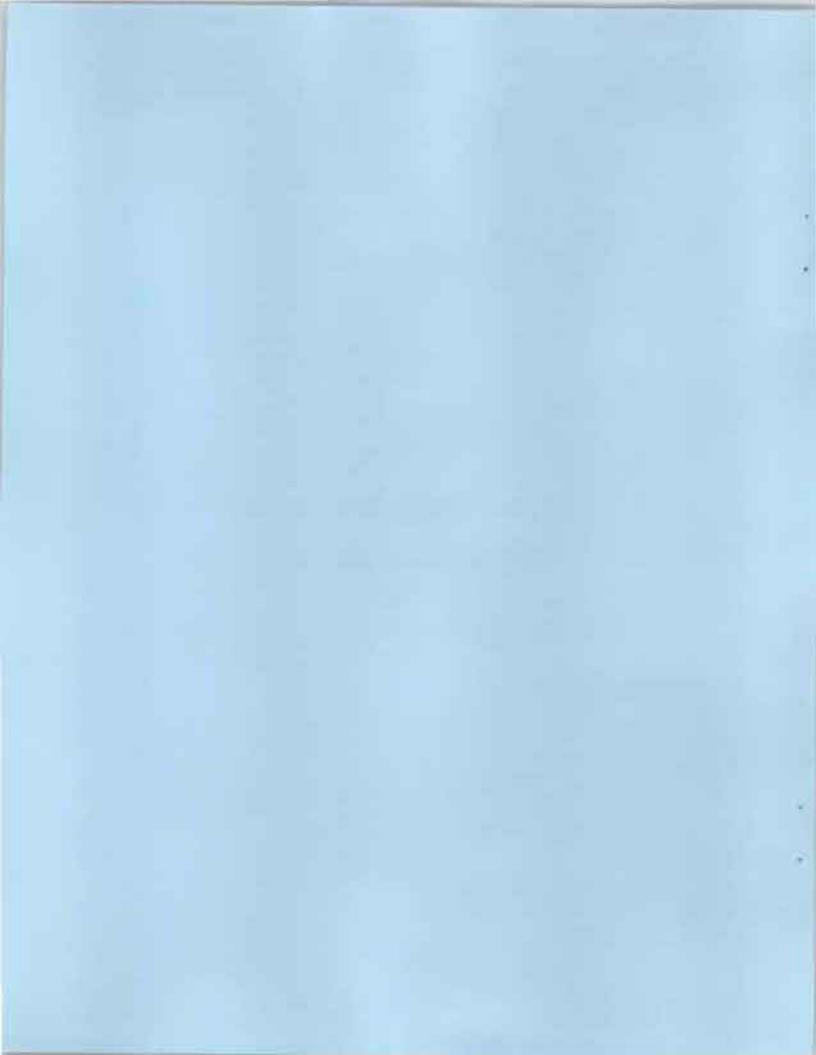


Figure 4. Counts of multi-sea-winter Atlantic salmon at 4 counting facilities in the Maritime Provinces, 1986-1989.

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NEW BRUNSWICK AND

PRINCE EDWARD ISLAND



River	Area	Kelts	Brights
Alma *		15 Apr - 15 May	15 Jun - 15 Oc
Bartholomew *		closed	closed
Bartibog		15 Apr - 15 May	1 Jun - 15 Oc
Big Salmon *	 upstream from and including WaltonDam Pool 	15 Apr - 15 May	15 Jun - 15 Ser
big Saimon	 downstream from Walton Dam Pool 	15 Apr - 15 May	8 Jun - 22 Oc
Plack (Saint John Ca)			
Black (Saint John Co.)		15 Apr - 15 May	15 Jun - 15 Oc
Cains		15 Apr - 15 May	8 Jun - 15 Oc
Canaan		15 Apr - 15 May	15 Jun - 15 Oc
Coverdale		15 Apr - 15 May	15 Jun - 15 Oc
Digdeguash		15 Apr - 15 May	15 Jun - 15 Oc
Dungarvon		15 Apr - 15 May	8 Jun - 30 Sej
-	 above Underwood Brook 	15 Apr - 15 May	8 Jun - 15 Ser
Dunk (P.E.I.) *		No kelt fishery	9 Jun - 31 Oc
Hammond *	 upstream from and including French Village 	15 Apr - 15 May	15 Jun - 15 Oc
	Bridge Pool	10 Apr 10 May	
		15 Apr. 15 May	15 Jun 21 Oc
leie b	 downstream from French Village Pool 	15 Apr - 15 May	15 Jun - 31 Oc
Irish		15 Apr - 15 May	15 Jun - 15 Oc
Jacquet		15 Apr - 15 May	1 Jul - 15 Oc
Kedgwick		No kelt fishery	1 Jun - 31 Aug
Kennebecasis		15 Apr - 15 May	15 Jun - 31 Oc
Little		15 Apr - 15 May	15 Jun - 15 Oc
Little Southwest Miramichi		15 Apr - 15 May	8 Jun - 30 Ser
	 above Catamaran Brook 	15 Apr - 15 May	8 Jun - 15 Ser
Magaguadavic		15 Apr - 15 May	15 Jun - 15 Oc
Middle (Gloucester Co.)		15 Apr - 15 May	1 Jul - 15 Oc
Midgell (P.E.I.) *		No kelt fishery	9 Jun - 31 Oc
Mill (P.E.I.)		No kelt fishery	9 Jun - 31 Oc
Morell (P.E.I.) *		No kelt fishery	9 Jun - 15 Oc
Mosher		15 Apr - 15 May	15 Jun - 15 Oc
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 Oc
Nepisiguit *	,	No kelt fishery	1 Jun - 7 Oc
Nerepis		15 Apr - 15 May	15 Jun - 15 Oc
New		15 Apr - 15 May	15 Jun - 15 Oc
Northwest Miramichi *			
NORTHWEST WIRATHICH	- above Little River	15 Apr - 15 May	8 Jun - 30 Sep
	- above Little River	15 Apr - 15 May	8 Jun - 31 Au
Oromocto		15 Apr - 15 May	15 Jun - 15 Oc
Patapedia		No kelt fishery	1 Jun - 31 Aug
Petitcodiac		15 Apr - 15 May	15 Aug - 15 Oc
Pocologan		15 Apr - 15 May	15 Jun - 15 Oc
Point Wolfe *		closed	closed
Pollett		15 Apr - 15 May	15 Jun - 15 Oc
Renous		15 Apr - 15 May	8 Jun - 30 Ser
101003	 above North Renous River 	15 Apr - 15 May	
Posticovska			8 Jun - 15 Sep
Restigouche		No kelt fishery	1 Jun - 31 Aug
Saint Croix		15 Apr - 15 May	15 Jun - 15 Ser
Saint John *	 upstream from the Grafton Bridge 	15 Apr - 15 May	15 Jun - 30 Ser
	in Woodstock		
	 downstream from the Grafton Bridge 	15 Apr - 15 May	1 Jun - 15 Oc
	in Woodstock	-	
Salmon (Queens Co.)		15 Apr - 15 May	15 Jun - 15 Oc
Salmon (Victoria Co.)		15 Apr - 15 May	15 Jun - 15 Oc
Sevogle		15 Apr - 15 May	8 Jun - 30 Ser
3-	 above Square Forks 	15 Apr - 15 May	8 Jun - 15 Ser
Shepody	acore equater and	15 Apr - 15 May	15 Jun - 15 Oc
Southwest Miramichi		15 Apr - 15 May	8 Jun - 30 Ser
Courring Courring I III an III Chi	- Bochy Brook		
	- Rocky Brook	15 Apr - 15 May	1 Jun - 31 Aug
	 above McKiel Brook and tributaries above 	15 Apr - 15 May	8 Jun - 15 Sep
	Cains River		
Tabusintac		15 Apr - 15 May	1 Jul - 22 Oc
Tetagouche		15 Apr - 15 May	1 Jul - 15 Oc
Tobique *		15 Apr - 15 May	15 Jun - 15 Ser
Tracadie			
		15 Apr - 15 May	1 Jul - 15 Oc
Upsalquitch		No kelt fishery	1 Jun - 31 Aug
Valleyfield (P.E.I.) * Waweig		No kelt fishery	9 Jun - 31 Oc
0.000		15 Apr - 15 May	15 Jun - 15 Oc

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 at Alma to the boundary for the Fundy National Park from July 17 to September 22, 1989.
Bartholomew River		Closed to fishing in those waters from its confluence with the Southwest Miramichi River to the forks of the north and south branches, excluding its branches and tributaries, from July 8 to December 31, 1989.
Big Salmon River		The daily catch and retention limit for salmon angling was 0 in any one day from June 13 to August 15, 1989.
Dunk River		Closed to fishing in those waters from a straight line drawn from grid reference 4853 3190 to grid reference 4853 3194 to a straight line drawn from grid reference 4861 3187 to grid reference 4861 3194 and including the highway bridge spanning the river on Route #110 (refer to Map Summerside 11 L/5) from June 23 to December 31, 1989.
Hammond River		Closed to fishing in those waters of Palmer Brook from its confluence with the Hammond River upstream 200 m to a point as marked by a fishery officer from July 13 to October 31, 1989.
Midgell River		Catch and release "only" season from October 1 to October 31, 1989.
Mill River	(1)	Closed to fishing, in those waters between Cains Bridge on Highway #2 to the Canadian National Railway Bridge at Howlan, Prince County, from May 9 to May 23, 1989.
	(2)	Closed to fishing, except by artificial fly, in those waters between Cains Bridge on Highway #2 to the Canadian National Railway Bridge at Howlan, Prince County, from June 23 to July 25, 1989.
	(3)	Closed to fishing, except by artificial fly, in those waters upstream from Cains Bridge at Highway #2 to grid reference 3745 4745 at Highway #143 (known locally as Locke Road) from July 27 to December 31, 1989.
Morell 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 2345 3570 (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 2345 3565 to grid reference 2345 3570 (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.

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Nashwaak 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 4934 2893 and a point at grid reference 4952 2899 as shown on map Coldstream 21 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.
Nepisiguit River	(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.
Northwest Miramichi River		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.
Point Wolfe River		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.
Saint John River		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.
Tobique River	(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.
Valleyfield River	(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.

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

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River	Number	
Digdeguash	ז 7	
Jacquet	67	
Kedgwick	528	
Keswick	12	
L.S.W. Mira	amichi 497	
M.S.W. Mir	amichi ² 50	
Magaguada	avic 149	
Nashwaak	214	
Nepisiguit	490	
Nerepis	2	
New	1	
N.W. Miran	nichi 727	
Patapedia	35	
Restigouch	e 2363	
Saint Croix	20	
Saint John	³ 310	
Sevogle	33	
Tracadie	32	
Upsalquitch	n 515	
Waweig	11	
Total	6063	

TABLE 11. Estimates of large salmon released by anglers on several New Brunswick rivers in 1989.¹

- 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.)

	G	rilse	Large	salmon	т	otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Number	Wt(kg)	(rod-days)	
AL NAA 107								
ALMA 127								
<u>Bright Fish</u>								
September								0.174
October	Ę							0.172
Total	20) 41	0	C) 20) 41	115 ²	0.174
BARTIBOO	3 19							
Kelts								
April	450	510	0	0) 450	510	220	2.045
May	250) 284	135	1.852
Total	700) 794	0	C	700) 794	355	1.972
Bright Fish								
August	8	3 11	0	0) 8	3 11	60	0.133
September				0				0.186
October	120			C				0.400
Total	168	3 228	0	0	168	3 228	575	0.292
BIG SALM	ON 131							
Bright Fish								
June	1() 20	0	C) 1() 20	35	0.286
July	65			0				0.171
August	30) 61		C) 61	242	0.124
September				0				0.187
October	11			0				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						0.412
Total	84	114	0	0) 84	114	99	0.848
Bright Fish								
July	102			0				0.319
August	501			0				0.559
September				0				0.657
October	528			0				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.

	Grilse		Large salmon			Total	1	Effort Catch/effo		
	Number	Wt(kg)	Number	Wt(kg)	Numbe	er Wt(kg) (ro	d-days)	(fish/rod-day)	
CANAAN 1	41									
<u>Bright Fish</u>		_					_			
June		0	0	0	0	0	0	5	0.000	
July		1 1	2 2	0 0	0 0	1 1	2 2	9 6	0.111 0.167	
August September		3	6	0	0	3	2 6	9	0.333	
October		1	2	0	0	1	2	3	0.333	
Total			12	0	0	6	12	32	0.188	
Total		0	12	0	0	0	12	52	0.100	
DENNIS 1	39b									
Bright Fish										
September		4	8	0	0	4	8	33	0.121	
October		2	4	0	0	2	4	32	0.063	
Total			12	0	0	6	12	65	0.092	
DIGDEGU	ASH 139									
Bright Fish										
July		2	4	0	0	2	4	20	0.100	
August		3	6	0	0	3	6	40	0.075	
September			10	0	0	5	10	50	0.100	
October			10	0	0	5	10	25	0.200	
Total	1	5 3	31	0	0	15	31	135	0.111	
DUNGAR	/ON 148									
<u>Kelts</u>										
April	2		34	0	0	25	34	27	0.926	
May	2		26	0	0	20	26	79		
Totał	4	5 (60	0	0	45	60	106	0.425	
Bright Fish	L									
June		6	54	0	0	36	54	197	0.183	
July	14		81	0	0	140	181	663		
August	15		81	0	0	159	281	532	0.299	
Septembe	r 19		04	0	0	199	304	604	0.329	
Total	53	4 8	20	0	0	534	820	1996	0.268	

TABLE 12 Sport catch by	y river for New Brunswick and Prince Edward	(hountinued) 0801 hereigit
TADLE 12. Opull value by	y Hael for Hear Dightswick and I three Edward	

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	G	arilse	Large	e salmon		Тс	otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Ň	lumber	Wt(kg)	(rod-days)	(fish/rod-day)
	1220								
HAMMON	J 133a								
Bright Fish									
June		3 (6	0	0	3	e	5 70	0.043
July	1	6 33	3	0	0	16	33	3 225	0.071
August	2			0	0	21	43		0.078
September				0	0	46			0.102
October	6			0	0	64			0.162
Total	15	0 306	5	0	0	150	306	5 1409	0.106
JACQUET	6								
Kelts									
April		5	7	0	0	5	7	' 60	0.083
May		8 1 ⁻		0	0	8			0.076
Total		3 18		0	0	13			0.079
Bright Fish									
July		5 8		0	0	5			0.083
August		0 15		0	0	10			0.167
September		5 23		0	0	15			0.125
October Total	4 7			0 0	0 0	40 70			0.444
TULAI	1	0 100		0	0	70	100	5 330	0.212
KEDGWIC	K 1								
Bright Fish									
June	1			0	0	11	18		0.040
July	12			0	0	123			0.229
August	7			0	0	73			0.162
Total	20	7 317		0	0	207	317	1266	0.164
KENNEBE	CASIS 134								
Bright Fish									
June		6 12)	0	0	6	12	2 86	0.070
July	2			0	0	22			
August	3			0	0	36			
September				0	0	20			0.091
October	1			D	0	16			0.340
Total	10	0 204	Ļ (D	0	100	204	952	0.105

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

	G	rilse	Large	salmon	Т	otal	Effort	Catch/effort ¹
	Number	Wt(kg)		Wt(kg)	Number	Wt(kg)	(rod-days)	(fish/rod-day)
KESWICK	145							
Bright Fish								
June	(5	
July	Į.			0				0.250
August	Į.			0				0.200
September				0				0.200
October	i,			0				0.167
Total	25	5 51	0	0	25	5 51	130	0.192
LITTLE SC	OUTHWEST		HI 150					
Kelts								
April	187							
May	10							0.291
Totai	288	3 392	0	0	288	392	472	0.610
Bright Fish								
June	120							0.361
July	92							
August	8							
September								
Total	348	3 529	0 0	0	348	3 529) 1174	0.296
MAGAGU	ADAVIC 13	8						
Bright Fish	L							
July		4 8	3 0	0	2	s 1	3 90	0.044
August	1:							
September								
October	6							
Total	179	9 365	5 0	0	179	9 365	5 770	0.232
MIDDLE(G	iloucester)	9						
<u>Kelts</u>								
May	2	5 45	5 0	C	25	5 45	5 80	0.313
Bright Fish								
July	1							
August		8 15						
Septembe								
October	2							
Total	5	3 96	6 0) C	53	3 96	6 287	0.185

1. Retained fish per rod-day.

	G	rilse	Large	e saimon		Т	otal		Effort	Catch/effort ¹
-	Number	Wt(kg)	Number	Wt(kg)	<u> </u>	Number	Wt(kg)		(rod-days)	(fish/rod-day)
MIDGELL 41										
Bright Fish										
August	C			0	0		D	0	12	0.000
September	C			0	0		D	0	35	0.000
October Total	C			0 0	0 0		D D	0 0	60 107	0.000 0.000
rolar	C C	, (,	0	0		0	0	107	0.000
MORELL 40										
<u>Bright Fish</u>										
June		4		0	0		4	7	594	0.007
July	39			0	0	39		71	1829	0.021
August	2			0	0	23		51	868	0.032
September October	9	6 174 0 (0 0	0 0	9	0 D	174 0	960 255	0.100 0.000
Total	16			0	0	16		303	4506	0.000
lotal	10	, 000	,	0	U	10	, X	500	4000	0.007
NASHWAAK	(144									
<u>Kelts</u>										
April	N/A			0	0	N//			70	
May	N/A			0	0	N//			120	
Total	N/A	۱.		0	0	N//	4		190	
<u>Bright Fish</u>										
June	19			0	0	19		39	580	0.033
July	64			0	0	6		131	960	0.067
August	95			0	0	9		194	660	0.144
September	200			0	0	200		408	990	0.202
October Total	70 448			0 0	0 0	70 443		143 914	350 3540	
lotal	440	5 51-	•	0	0	-+-+(0 :	514	5540	0.127
NEPISIGUIT	11									
<u>Bright Fish</u>										
June	1		7	0	0	1:	5	27	400	0.038
July	50			0	0	5		90	500	0.100
August	50			0	0	5		90	400	0.125
September	38			0	0	38		700	2000	0.193
October	100			0	0	10		180	700	
Total	600	0 1087		0	0	60	U 10	087	4000	0.150

	G	rilse	Large	salmon		Total		Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Nur	nber Wt	(kg)	(rod-days)	(fish/rod-day)
NEREPIS ⁻	135a								
<u>Bright Fish</u>									
August	I			0	0	0	0	50	0.000
September				0	0	4	8	100	0.040
October				0	0	4	8	120	0.033
Total		8 10	0	0	0	8	16	270	0.030
NEW 136									
Bright Fish									
August		3	6	0	0	3	6	10	0.300
NORTHWE	ST MIRA	MICHI 152							
Kelts			_	_	_				
April	41			0	0	418	569	111	3.766
May	65			0	0	651	886	409	
Total	106	9 145	D	0	0	1069	1455	520	2.056
Bright Fish									
June	5			0	0	53	72		
July	5			0	0	57	78		0.070
August	4			0	0	46	63		
September				0 0	0 0	57 213	78 291	518 2830	
Total	21	5 29	1	0	U	213	291	2000	0.075
OROMOC	TO 142								
Bright Fish									
August		0	0	0	0	0	0	10	0.000
September	r	0		0	0	0	0		
October				0	0	0	0		
Total		0	0	0	0	0	0	50	0.000
PATAPED	IA 2a								
Bright Fish	l								
June				0	0	5	ç		
July	2	25 4		0	0	25	45		
August				0	0	1	2		
Total	3	51 5	6	0	0	31	56	211	0.147

1. Retained fish per rod-day.

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		rilse		salmon			otal	Effort	Catch/effort1	
	Number	Wt(kg)	Number	Wt(kg)		lumber	Wt(kg)	(rod-days)	(fish/rod-day)	
POCOLOGAN 137										
Bright Fish	l									
August	2	2 4	C)	0	C	0 0	20	0.000	
RENOUS	149									
Kelts										
April	109	9 150	C)	0	109	150	241	0.452	
May	73)	0	73		252	0.290	
Total	182	2 256	C)	0	182	256	493	0.369	
<u>Bright Fish</u>										
June	124				0	124			0.273	
July	493				0	493			0.262	
August	505				0	505				
September					0 0	690			0.428	
Total	1812	2 2942	C)	0	1812	2942	5108	0.355	
RESTIGO	JCHE 2									
Bright Fish										
June	87	7 151	C)	0	87	' 151	1697	0.051	
July	1119	2031	C		0	1119			0.427	
August	571				0	571		1784	0.320	
Total	1777	3168	C)	0	1777	3168	6104	0.291	
SAINT CROIX (CHARLOTTE) 140										
<u>Briaht Fish</u>										
June	-	7 13	C)	0	7	' 13	50	0.140	
July	15				Ő	15				
August	(0	C			0.000	
September					0	3			0.158	
Total	25	5 49	0)	0	25	6 49	450	0.056	

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

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	G	rilse	Large	salmon		Тс	otal	Effort	Catch/effort ¹
	Number	Wt(kg)	Number	Wt(kg)		lumber	Wt(kg)	(rod-days)	(fish/rod-day)
SAINT JOH	IN 135								
Briaht Fish									
June	97	' 198	0	I	0	97	198	1454	0.067
July	670) 1367	0	I	0	670	1367	3761	0.178
August	205				0	205			0.120
September					0	97			0.067
October	11				0	11			0.064
Total	1080) 2203	0		0	1080	2203	8550	0.126
SALMON (VICTORIA CO.) 154									
Bright Fish									
June	1	2	C	1	0	1	2	12	0.083
July	72)	0	72	147	864	0.083
August	11				0	11			0.083
September					0	16			0.083
Total	100) 204	C		0	100	204	1200	0.083
SALMON (QUEENS (0.) 143							
Bright Fish									
July	22	2 45	C	1	0	22	45	126	0.175
August	30) 61	C)	0	30	61	173	0.173
September	· 11	22	C	1	0	11	22	65	0.169
October	12				0	12			0.174
Total	75	5 153	C)	0	75	153	433 ²	0.173
SEVOGLE	151								
Bright Fish									
June	29	53	C)	0	29	53	283	0.102
July	34		. C		0	34	46	247	0.138
August	22				0	22			0.099
September					0	18			0.097
Total	103	3 153	C)	0	103	153	937	0.110

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	G	rilse	Large	salmon		Тс	otal	Effort	Catch/effort1	
	Number	Wt(kg)	Number	Wt(kg)	N	lumber	Wt(kg)	(rod-days)	(fish/rod-day)	
SOUTHWEST MIRAMICHI 20										
Kelts										
April	3267				0	3267			0.910	
May	884 415				0 0	884 4151			0.434 0.737	
⊤otal	415	1 0000			0	4151	0000	5029	0.737	
Bright Fish	l									
June	389				0	389			0.478	
July	1618		C		0	1618		4887	0.331	
August	137				0	1375			0.349	
September					0	4682			0.855	
Total	8064	4 13756	C		0	8064	13756	15118	0.533	
TABUSIN	TAC 18									
<u>Kelts</u>										
April	452	2 564	C		0	452	564	935	0.483	
May	11() 150			0	110	150	252		
Total	562	2 714	C		0	562	714	1187	0.473	
Bright Fish	Į									
July	4				0	4		40	0.100	
August	12				0	12			0.200	
September					0	65				
October	57				0	57			0.196	
Total	138	3 202	C		0	138	202	651	0.212	
TETAGOUCHE 8										
Kelts										
May	1() 18	C		0	10	18	65	0.154	
Bright Fish	1									
July	1() 18	C		0	10	18	65	0.154	
August	ç				0	9				
September			C)	0	10	18	55		
October	25				0	25				
Total	54	4 97	C	1	0	54	97	290	0.186	

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		rilse		salmon			otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	<u> </u>	lumber	Wt(kg)	(rod-days)	(fish/rod-day)
TOBIQUE	153								
Bright Fish									
June	16)	0	16			0.031
July	670)	0	670			0.112
August	134				0	134			
September					0	17			
Total	837	' 1707	()	0	837	1707	7299	0.115
TRACADIE	E 17								
<u>Kelts</u>									
April	2	2 5	()	0	2	2 5	41	0.049
Bright Fish									
July	5)	0	5		33	0.152
August	8		()	0	8		91	0.088
September)	0	6		39	0.154
October	5	5 11	()	0	5	5 11	57	0.088
Total	24	47	()	0	24	47	220	0.109
UPSALQU	ITCH 3								
Bright Fish	1								
June	63	109		C	0	63	109	282	0.223
July	505)	0	505		-	
August	268)	0	268			
Total	836)	0	836			
WAWEIG	139a								
Bright Fish									
September	r 10) 20)	0	10) 20	175	0.057

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

		rilse		salmon			otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	N	lumber	Wt(kg)	(rod-days)	(fish/rod-day)
Miramichi I	River Syste	em							
Kelts									
April	4076	5434	0)	0	4076	5434	4161	0.980
May	1743	3 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				0	2536		9146	0.277
August	2689				0	2689		7632	0.352
September			0		0	6158	10514	9399	0.655
October	528				0	528			0.260
Total	12665		0)	0	12665	20993	31111	0.407
Restigouch	ne River Sy	/stem							
Bright Fish									
June	- 166	6 287	0	1	0	166	287	2300	0.072
July	1772				õ	1772		4181	0.424
August	913		0		õ	913		2904	0.314
Total	2851		0		0	2851		9385	
Saint John	River Syst	tem							
Kelts									
April	- N/A		0	1	0	N/A		70	
May	N/A		0		õ	N/A		120	
Total	N/A		0		0	N/A		120	
rotai		·	0		Ŭ			100	
Bright Fish	-								
June	142				0	142		2723	0.052
July	1542				0	1542		12198	0.126
August	538				0	538		4043	0.133
September					0	424		3696	0.115
October	183				0	183		1205	0.152
Total	2829	5771	0		0	2829	5771	23865	0.119

TABLE 13. Sport catch by river system for New Brunswick and Prince Edward Island, 1989.

1. Retained fish per rod-day. N/A = not available

.

	Gr	ilse	Large salmon		Тс	otal	Effort	Catch/effort ¹
	Number	Wt(kg)	Number		Number		(rod-days)	(fish/rod-day)
District 48								
<u>Bright Fish</u> June	107	218	0	0	107	218	1489	0.072
July	735		0				-	0.177
August	235	479	0	0	235	479	1952	0.120
September	131	267	0				1636	0.080
October	22		0 0					0.112
Total	1230	2509	0	U	1230	2509	9416	0.131
District 52								
Bright Fish								
June	7		0					0.140
July	21		0					0.047
August September	18 122		0 0				181 657	0.099 0.186
October	67		0					0.261
Total	235		0				1595	0.147
District 53								
Bright Fish								
August	5	10	0	0	5	10	30	0.167
District 55								
Bright Fish								
June	9 38		0					0.058 0.080
July August	57							0.085
September	70							0.091
October	84	171	0	C			562	
Total	258	526	0	C	258	526	2631	0.098
District 56								
Bright Fish								
June	0	0	0	C	0 0	0	5	0.000
July	23							
August	31							
September	14							
October	13							
Total	81	165	0	C	81	165	465	0.174

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

1. Retained fish per rod-day.

		ilse		salmon		otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Number	Wt(kg)	(rod-days)	(fish/rod-day)
District 57								
<u>Bright Fish</u> August	0	0	0	0	0	0	10	0.000
September	0	0	0	0	0	0	20	0.000
October	0		0		0		20	0.000
Total	0	0	0	0	0	0	50	0.000
District 58								
<u>Kelts</u>								
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 Eich								
<u>Bright Fish</u> June	19	39	0	0	19	39	585	0.032
July	69	141	0		69		980	0.032
August	100	204	0		100		685	0.146
September	210	428	0		210			0.202
October	75	153	0		75			0.197
Total	473	965	0		473		3670	0.129
District 60								
Bright Eish								
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

TABLE 14. Sport cach by district for New Brunswick and Prince Edward	Island, 1989, (continued)
TABLE 14. Opon cach by district for New Brunswick and Thrice Edward	isiana, 1903. (continued)

		ilse		salmon		otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Number	Wt(kg)	(rod-days)	(fish/rod-day)
District 63								
<u>Kelts</u>								
April	5		0					0.083
May	8		0				105	
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							0.311
September	15							
October	40							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
may	00	00	0	Ũ	00		. 10	0.2
<u>Bright Fish</u>								
June	15							
July	70							
August	67		0					
September	405							
October Total	150 707							
TUIAI	101	1200	0	0	101	1200	4377	0.154
District 68								
<u>Kelts</u>								
April	2	5	0	0	2	2 5	41	0.049
T.	_	-	-	-				
Bright Fish								
July	5							
August	8							
September	6 5							
October Total	5 24							
IUlai	24	47	U	0	24	- 4/	220	0.109

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TABLE 14. Sport cach by district for New Brunswick and Prince Edward Island, 1989. (continued)
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	Grilse		Large	salmon	Тс	otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Number	Wt(kg)	(rod-days)	(fish/rod-day)
District 70								
<u>Kelts</u> April	452	564	0	0	452		935	0.483
May Total	110 562		0 0				252 1187	0.437 0.473
<u>Bright Fish</u> July	4	7	0	0	4	7	40	0.100
August September	12 65	19	0	0	12	19	60	0.200
October	57	103	0	0	57	103	291	0.196
Total	138	202	0	0	138	202	651	0.212
District 71								
<u>Kelts</u> April	450	510	0	0	450	510	220	2.045
May Total	250 700		0 0					
Bright Fish	8	11	0	0	8	11	60	0.133
August September	40	54	0	0	40	54	215	0.186
October Total	120 168							
District 72								
<u>Kelts</u> April	4076	5434	0	0	4076	5434	4161	0.980
May	1743		0				3158	
Total	5819	7635	0	0	5819	7635	7319	0.795
<u>Bright Fish</u> June	754	1229	0	0	754	1229	2902	0.260
July	2536	3728	0	0	2536	3728	9146	0.277
August	2689							
September	6158							
October Total	528 12665							0.260 0.407
	,2000	20000	0	Ŭ	,2000	20000	5111	0.101

TARLE 14	Sport cach by	district for I	New Brunswick and	d Prince Edward Island	1989 (continued)
	opon ouon by		non branomon an	a i miloo Eanaia iolana	, 1000. (00.11.1404)

1. Retained fish per rod-day.

	Gr Number	ilse Wt(kg)		<u>salmon</u> Wt(kg)	To Number	otal Wt(kg)	Effort (rod-days)	Catch/effort ¹ (fish/rod-day)
District 79								
<u>Bright Fish</u> September October Total	15 5 20	10	0 0 0	0 0 0	15 5 20	31 10 41	86 29 115	0.174 0.172 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

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

	Gi Number	tilse Wt(kg)	Large Number	salmon Wt(kg)	To Number	otal Wt(kg)	Effort (rod-days)	Catch/effort ¹ (fish/rod-day)
	Number	wi(kg)	Number	WI(Kg)	Number	WI(Kg)	(100-0ays)	(IISH/IOU-Udy)
Albert Co.,	N.B.							
Bright Fish				_				
September			0				86	0.174
October	Ę		0		-			0.172
Total	20) 41	0	0	20	41	115	0.174
Carleton C	o., N.B.							
<u>Kelts</u>								
April	10	13	0	0	10	13	18	0.556
May	3	3 4	0	0	3	4	10	0.300
Total	13	8 17	0	0	13	17	28	0.464
Bright Fish								
June	40) 74	0	0	40	74	247	0.162
July	244	458	0	0	244	458	848	0.288
August	118	3 226	0	0	118	226	513	0.230
September	240		0					0.403
October	1		0			_		0.030
Total	643	8 1192	0	0	643	1192	2236	0.288
Charlotte C	Co., N.B.							
<u>Briaht Fish</u>								
June	7	' 13	0	0	7	' 13	50	0.140
July	21	42	0			42		
August	23		0					0.109
September			0					0.186
October	67	' 137	0	0	67	137		0.261
Total	240	488	0	C	240	488	1625	0.148

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

Number Wt(kg) Number Wt(kg) (rod-days) (fish/rod-day) 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			rilse		salmon		Total			Catch/effort1
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Number	Wt(kg)	Number	Wt(kg)	Numb	er	Wt(kg)	(rod-days)	(fish/rod-day)
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 Une 15 27 0 0 15 27 400 0.038 July 75 135 0 0 75 137 663 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 Une 9 18 0 0 9 18 156 0.058 July 38 78	Glouceste	r Co., N.B.								
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 Une 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 Une 9 18 0 0 9 18 156 0.068 July 38 78	Kelts									
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.			2 5	0	(0	2	5	41	0.049
Bright Fish June 15 27 0 0 15 27 400 0.038 July 75 135 0 0 75 137 578 0.130 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	May	3	5 63	0	(0	35	63	145	0.241
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 9 18 156 0.085 July 38 78 0 38 78 473 0.080 August 57 116 0 0 57 116 670 0.085 September 70 143 0 770 143 770 0.091 October 84 171	Total	37	7 68	0	(0	37	68	186	0.199
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 9 18 156 0.085 July 38 78 0 38 78 473 0.080 August 57 116 0 0 57 116 670 0.085 September 70 143 0 770 143 770 0.091 October 84 171	Bright Fish	1								
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	-		5 27	0	(0	15	27	400	0.038
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	July	75	5 135	0	(0	75	135	663	0.113
October 155 281 0 0 155 281 1007 0.154 Total 731 1327 0 0 731 1327 4797 0.152 Kings Co., N.B. Emight Fish 0 0 9 18 156 0.058 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 84 171 562 0.149 Total 258 526 0 0 258 526 2631 0.098 Northumberland Co., N.B. Emission 0 2068 2593 0 0 2068	August	75	5 137	0	t	0	75	137	578	0.130
Total 731 1327 0 0 731 1327 4797 0.152 Kings Co., N.B.	Septembe	r 41 ⁻	1 747	0	(0 ·	411	747	2149	0.191
Kings Co., N.B.Bright Fish 38 78009181560.058July38780038784730.080August5711600571166700.085September7014300701437700.091October8417100841715620.149Total2585260025852626310.098Northumberland Co., N.B.KeitsApril48476336004847633650650.957May20682593002068259334020.608Total69158929006915892984670.817	October	15	5 281	0	(0	155	281	1007	0.154
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Total	73 ⁻	1 1327	0	(0	731	1327	4797	0.152
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	Kings Co.,	N.B.								
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	Bright Fish									
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	-		a 18	٥	ſ	Λ	a	18	156	0.058
August5711600571166700.085September7014300701437700.091October8417100841715620.149Total2585260025852626310.098Northumberland Co., N.B.KeltsApril48476336004847633650650.957May20682593002068259334020.608Total69158929006915892984670.817										
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										
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	-									
Total 258 526 0 0 258 526 2631 0.098 Northumberland Co., N.B. Keits 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	•									
Northumberland Co., N.B. <u>Kelts</u> 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										
KeltsApril48476336004847633650650.957May20682593002068259334020.608Total69158929006915892984670.817	- otai	200		0	·	•	200	020	2001	0.000
April48476336004847633650650.957May20682593002068259334020.608Total69158929006915892984670.817	Northumbe	erland Co.,	N.B.							
April48476336004847633650650.957May20682593002068259334020.608Total69158929006915892984670.817	Kelts									
Total 6915 8929 0 0 6915 8929 8467 0.817		484	7 6336	0	l	0 4	847	6336	5065	0.957
	•	206	8 2593	0	I	0 2	068	2593	3402	0.608
Bright Fish	Total	691	5 8929	0	I	0 6	915	8929	8467	0.817
	<u>Bright Fish</u>	<u>1</u>								
June 618 1013 0 0 618 1013 2650 0.233	-		B 1013	0	I	0	618	1013	2650	0.233
July 1974 2888 0 0 1974 2888 7671 0.257	July	1974	4 2888			0 1	974	2888	7671	0.257
August 2228 3939 0 0 2228 3939 6531 0.341	•	222	B 3939	0	I	0 2	228	3939	6531	0.341
September 4624 7742 0 0 4624 7742 8176 0.566	•	r 462-	4 7742			0 4	624	7742	8176	0.566
October 705 1006 0 0 705 1006 2623 0.269	•		5 1006			0	705	1006	2623	0.269
Total 10149 16588 0 0 10149 16588 27651 0.367	Total	1014	9 16588	; O		0 10	149	16588	27651	0.367

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

	G	rilse	Large	salmon		Тс	otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	N	umber	Wt(kg)	(rod-days)	(fish/rod-day)
Queens C	o., N.B.								
Bright Fis	<u>h</u>								
June	() 0	0		0	0	0	5	0.000
July	23	3 47	0)	0	23	47	135	0.170
August	31				0	31	63	179	0.173
Septembe	er 14)	0	14	29	74	0.189
October	13	3 27	0		0	13	27	72	0.181
Total	81	165	0		0	81	165	465	0.174
Restigoud	he Co., N.E	3.							
Kelts									
April	5	5 7	0		0	5	7	60	0.083
May	8		0		0	8		105	0.076
Total	13				0	13	18	165	0.079
Bright Fis	h								
June	166	5 287	0		0	166	287	2300	0.072
July	1777	' 3167	0)	0	1777	3167	4241	0.419
August	923	3 1596	0)	0	923	1596	2964	0.311
Septembe	er 15	5 23	0		0	15	23	120	0.125
October	4() 60	0		0	40	60	90	0.444
Total	2921	5133	0		0	2921	5133	9715	0.301
Saint Joh	n Co., N.B.								
<u>Bright Fis</u>	h								
June	- 10) 20	0)	0	10	20	35	0.286
July	65	5 133			0	65	133	381	0.171
August	30		0		0	30	61	242	0.124
Septembe					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 Fis	<u>h</u>								
August	() 0	0		0	0	0	10	0.000
Septembe	er () 0	0)	0	0		20	0.000
October	() 0	0		0	0		20	0.000
Total	() 0	0		0	0	0	50	0.000

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

Number Wt(kg) Number Wt(kg) Number Wt(kg) (rod-days) (fish/rod-day	V)
	<u>//</u>
Victoria Co., N.B.	
Bright Fish	
June 17 35 0 0 17 35 523 0.03	33
July 742 1514 0 0 742 1514 6849 0.10	80
August 145 296 0 0 145 296 789 0.18	84
September 33 67 0 0 33 67 338 0.09	
Total 937 1911 0 0 937 1911 8499 0.11	10
York Co., N.B.	
Kelts	
April 121 159 0 0 121 159 303 0.39	99
May 32 38 0 0 32 38 253 0.12	26
Total 153 197 0 0 153 197 556 0.27	75
Bright Fish	~ .
June 212 379 0 0 212 379 2044 0.10	
July 1061 1897 0 0 1061 1897 5408 0.19	
August 668 1269 0 0 668 1269 3103 0.21	
September 1706 3093 0 0 1706 3093 3597 0.47	
October 85 173 0 0 85 173 518 0.16 Total 3732 6811 0 0 3732 6811 14670 0.25	
Total 3732 6811 0 0 3732 6811 14670 0.25	54
Kings Co., P.E.I.	
Bright Fish	
June 4 7 0 0 4 7 594 0.00	07
July 39 71 0 0 39 71 1829 0.02	
August 28 51 0 0 28 51 880 0.00	
September 96 174 0 0 96 174 995 0.00	
October 0 0 0 0 0 0 315 0.00	
Total 167 303 0 0 167 303 4613 0.03	

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

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

	G	rilse	Large	salmon	T	otal	Effort	Catch/effort1
	Number	Wt(kg)	Number	Wt(kg)	Number	Wt(kg)	(rod-days)	(fish/rod-day)
Salmon fish	ning area 1	7						
Bright Fish								
June	2	1 7	0	0	4	7	594	0.007
July	39	71	0	0	39	71	1829	0.021
August	28	3 51	0	0	28	51	880	0.032
September	96	5 174	0	0	96	174	995	0.096
October	() 0	0	0	0	0	315	0.000
Total	167	303	0	0	167	303	4613	0.039

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

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

	Gr	ilse	Large	salmon	Т	otal	Effort	Catch/effort ¹
	Number	Wt(kg)	Number	Wt(kg)	Number	Wt(kg)	(rod-days)	(fish/rod-day)
New Bruns	wick							
Kelts								
April	4985	6520	0	C) 4985	6520	5487	0.909
May	2146	2709	0	C) 2146	5 2709	3915	0.548
Total	7131	9229	0	C) 7131	9229	9402	0.758
Bright Fish	-	1000			100	4000	0.440	
June	1094		0	0				0.130
July	6020		0	(0.222
August	4298		0				15790	0.272
September	7284		0	(0.435
October	1166		0					0.223
Total	19862	34489	0	C	19002	34489	73320	0.271
Prince Edw	ard Island							
Bright Fish	_							
June	- 4	, 7	0	() 4			0.007
July	39	71	0	C) 39	71	1829	0.021
August	28	51	0	(880	0.032
September	96	174	0	() 96	6 174	995	0.096
October	0	0	0	() () 0	315	0.000
Totai	167	303	0	() 167	7 303	4613	0.039

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TABLE 18. 1989 Nova Scotia Atlantic salmon recreational catch summary data.

CATCH = .862: EFFORT = .89

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Number of licenses issued in 1989	
Number of license stubs returned	6307
Overal response rate	73%
Number of unspoiled stubs used in analysis	6138

Number of	Observed number	Percent observed	Estimated number
resident anglers		83	6,974 ¹
non-resident anglers		17	1,641
anglers who fished		86	7,429
anglers who did not fish		14	1,185
successful anglers		45	3,860
unsuccessful anglers		41	3,568
rod days fished in season			
od days fished by successful anglers.			
od days fished by unsuccessful angle	rs17,404		
od days per angler ²			
rivers fished per angler ²	1.64		
ish retained		9,145	
grilse retained	7,559	9,145	
arge salmon retained		0	
ish released		8,522	
grilse released		1,562	
arge salmon released		6,960	
ish angled (retained & released)		17,667	
ish per rod day	0.221		
ish per angler ²	2.379		
ish per licensee	1.695		

1. Actual number, not estimated.

2. Calulations are based on licensees who fished.

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								Nu	mbers 1	etair	ed	÷						
			n dates	Observed		Grilse			Salmon		nknown		otals				releas	
	River	Begin	End	No. of	Obs.	Estim	ated	Obs.	Estima	ited	Obs.		Estim	ated	Gri	lse	Sal	mon
ode	Name	D M		anglers	No.	No.	kg	No.	No.	kg	No.	No.	No.	kg	Obs.		Obs.	
1 Aconi		15/06		2	1	1	0	0	0	0	0	1	1	0	0	0	1	
2 Annap 3 Apple		1/05 15/08		7 7	3 6	4 7	8 9	0	0	0	0	36	4 7	8 9	0	0	1	
4 Badde	ck	15/06	15/10	98	7	8	14	0	Ō	0	0	7	8	14	8	10	204	24
5 Barac 6 Barne		15/06	15/10 31/10 •	12	3	4	10 1	0	0	0	0	3 1	4	10 1	1 4	1 5	6 1	
7 Barri		10/05		ô	-	•	•	Ŭ	Ŭ	v	Ŭ	•	•	•		5	-	
8 Bass 9 Bear		15/08		0														
0 Broad	1	15/08 10/05		1	0	0	0	0	0	0	0	0	0	0	0	0	10	1
1 Catal		15/06		55	25	30	47	0	0	0	0	25	30	47	1	1	12	1
2 Cheti 3 Chezz	.camp .etcook		31/10 29/08	33 0	5	6	10	0	0	0	0	5	6	10	1	1	116	14
4 Chiga			31/10 *		0	0	0	0	0	0	0	0	0	0	0	0	0	
5 Clam 4 Clybu	Harbour	24/06		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 Clyde		15/06 10/05	15/08 *	1 46	10	12	22	ŏ	ŏ	ŏ	ő	10	12	22	2	2	9	1
7 Cole	Harbour	1/06	29/08	0	_										-		-	
8 Cornv 9 Count	vallis Try Harbour	15/08	31/10 22/09 •	· 21	1 18	1 22	0 35	0	0	0	0	1 18	1 22	0 35	3 6	4	0 7	
0 Deber			31/10 *		29	35	52	ŏ	ŏ	ŏ	ŏ	29	35	52	Š	6	5	
1 Dilig		15/08		0														
	Colchester Lunenburg Co.	15/08		03	0	0	0	0	0	0	0	0	0	0	0	0	1	
	Pictou Co.		31/10	240	34	41	69	Ō	Ō	Ō	0	34	41	69	38	46	554	67
	Sheet Harbour		29/08		58	70 7	112 10	0	0	0	0	58 6	70 7	112 10	11 0	13 0	13 1	1
5 Econo 6 Ecum			31/10 ' 29/08	53	6 63	76	128	ŏ	ő	ŏ	ő	63	76	128	9	11	15	1
7 Folly	/ .	15/08	31/10 '	31	27	33	57	0	0	0	0	27	33	57	4	5	6	
8 Frami 9 Frenc		15/06	15/10 31/10 ·	55	63 0	76 0	127 0	0	0	0	0	63 0	76 0	127 0	5 0	6 0	39 0	4
	ereau: Brook		29/08	7	11	13	20	ŏ	ŏ	ŏ	ŏ	11	13	20	ŏ	ŏ	ŏ	
0 Gaspe	ereau: C. Breton			7	2	2	3	0	0	0	0	2	2	_3	0	0	0	
1 Gaspe 3 Gegog	ereau: Kings Co.		15/08 29/08	46 0	38	46	75	0	0	0	0	38	46	75	0	0	39	4
4 Gerra		15/06		2	1	1	2	0	0	0	0	1	1	2	0	0	1	
5 Gold			15/08		396	479	797	0	0	0	0	396	479	797	45	54	104	12
6 Grand 7 Great	Village		15/10 · 31/10 ·		240 17	290 21	493 35	0	0	0	0	2 4 0 17	290 21	493 35	18 6	22 7	62 1	7
8 Guyst	orough	24/06		2	3	4	6	0	0	0	0	3	4	6	0	0	0	
0 Halfw 9 Harri	ay Brook	1/06 15/08		2	0	0	0	0	0	0	0	0	0	0	0	0	0	
	n Brook	15/06		7	1	1	1	0	0	0	0	1	1	1	0	0	1	
2 Ingor	ish	15/06	15/10 1		6	7	11	0	0	0	0	6	7	11	0	0	20	2
3 Ingra 4 Inhab		1/06	15/08	13 45	5 20	6 24	10 45	0	0	0	0	5 20	6 24	10 45	4	5 1	0 62	7
	's Harbour		29/08	14	19	23	41	ŏ	ŏ	ŏ	ŏ	19	23	41	ō	ō	ŏ	,
6 Jorda		10/05		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7 Kenne 8 Kirby		15/08	29/08	1 6	8	10	17	ő	0	0	0	8	10	17	1	1	7	
9 LaHav	'e	10/05	15/08	1097			4350	0	0	0	0	2021	2445	4350	338	409	553	66
0 Larry 1 Lawre	''s ncetown Lake		29/08 29/08	0 2	2	2	з	0	0	٥	٥	2	2	2	0	٥	0	
2 Legui		15/08		õ	2	2	5	v	v	v	Ŭ	2	2	5	Ŭ	v	v	
3 Lisco	dmo		29/08	119	40	48	81	0	0	0	0	40	48	81	14	17	7	
4 Litt1 7 Littl	e Bass .e Lorraine	15/08 15/06		0														
	e Salmon		29/08	1	0	0	0	0	0	0	0	0	0	0	0	0	10	1
	ine Brook	15/06	15/10 31/10	12 0	10	12	22	0	0	0	0	10	12	22	2	2	6	
9 Mabou 8 Macca			31/10		108	131	217	0	0	0	0	108	131	217	8	10	29	:
9 Marga	ree	1/06	15/10	1486	359	434	755	0	0	0	0	359	434	755	105	127	1298	15
0 Marie 7 Marti	e Joseph	15/06 10/05		18 0	23	28	48	0	0	0	0	23	28	48	0	0	2	
	ler (Avon)	15/08		ŏ														
2 Medwa			31/07		475	575	1074	0	0	0	0	475	575	1074	27	33	171	20
3 Merse 4 Middl	e: Lunenburg Co		15/08 1	110 · 5	99 3	120	218 7	0	0	0	0	99 3	120	218 7	4	5 4	47	Ę
	e: Pictou Co.		31/10	0		•						-		•	-	•	•	
	e: Victoria Co.	1/06	15/10	144	34	41	63	0	0	0	0	34	41	63	9	11	231	2
7 Mira 8 Moser	-		15/10 29/08	26 111	12 150	15 181	26 308	0	0	0	0	12 150	15 181	26 308	0 9	0 11	14 5	
8 Moser 9 Musha		10/05		21	25	30	52	ő	ŏ	0	ŏ	25	30	52	1	1	5	
0 Musqu	odoboit	1/06	29/08 '	353	199	241	430	Ö	0	Ö	0	199	241	430	54	65	137	1
1 Nappa 2 Necum		15/08	31/10 29/08	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 New H			29/08	24	26	31	49	0	0	0	0	26	31	49	0	0	1	
4 Nicta		15/08		Ō													-	

										and cro	recu	11100							
		Seaso	n date	88	Observed		Grilse			Salmon		Unknown	1 7	Fotals	,	Nu	nbers	releas	sed
	River	Begin	End		No. of	Obs.	Estim	ated	Obs.	Estim	ated	Obs.	Obs.	Estin	ated	Gr	ilse	Sal	lmon
Co	de Name	D M		1	anglers	No.	No.	kg	No.	No.	kg	No.	No.	No.	kg	Obs.	Est.	Obs.	Est.
75	Nine Mile	10/05	15/08	3	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	5 15/10) *	162	101	122	187	0	0		0 0	101	122	187	33	40	331	400
78	North Aspy	15/06	5 15/10)	24	4	5	8	0	0		0 0	4	5	8	2	2	27	33
120	Northwest Brook (Riv	15/06	5 15/10)	1	0	0	0	0	0		0 0	0	0	0	0	0	0	0
79	Paradise Brook	15/08	31/10)	0														
80	Petite Riviere	15/06	15/08	3 •	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
	Port Dufferin	1/06	29/04	3	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	\$ 29/01	3	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	5 29/0	3	3	0	0	0	0	0		0 0	0	0	0	0	0	1	1
	Ramshead (Ramsey)	15/08	31/10)	0														
129	River Bennett	15/06	5 15/10)	0														
122	River Deny's	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
	River Tillard	15/06	5 15/10)	22	7	8	17	0	0		0 0	7	8	17	0	0	7	8
90	Rocky Run Porters L.	1/06	5 29/01	3	1	1	1	1	0	0		0 0	1	1	1	0	0	0	0
91	Roseway	10/05	15/08	3	0														
92	Round Hill	15/08	31/10)	Ó														
131	Sackville	10/05	5 15/0	3	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	5 15/10	5	- 5	Ō	Ō	0	Ō	0		ō ō	Ō	0	0	0	Ō	0	Ō
	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	5 15/09		782	475	575	1010	0	0		0 0	475	575	1010	66	80	382	462
			5 15/10		46	6	7	13	Ō	Ō		0 0	6	7	13	0	Ō	17	21
	Salmon: Colchester	15/08	31/10	j •	69	80	97	158	0	0		Ö Ö	80	97	158	42	51	18	
99	Salmon: Digby Co.	1/06	15/0	3	60	67	81	149	0	0		0 0	67	81	149	3	4	7	8
	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.		29/01		19	11	13	23	0	0		0 0	11	13	23	3	4	4	5
	Shinimikas	1/09	31/10)	1	0	0	0	Ő	Ō		0 0	0	0	0	Ō	0	0	Ō
103	Ship Hbr.L.Charlotte	1/06	29/01	3	36	39	47	85	0	Ō		0 0	39	47	85	2	2	3	4
104	Shubenacadie		31/10		75	51	62	106	Ō	Ō		ō ō	51	62	106	8	10	15	18
	Sissiboo		15/0		ō							-				-	- •		

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13/08 31/10 10/05 15/08 15/06 15/10 1/09 31/10 1/08 31/10 1/09 31/10

15/06 15/10 1/06 29/08 1/06 29/08

1/06 29/08 1/09 31/10 1/09 31/10

1/06 15/08 1/09 31/10

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0 7559 9145 15890 1291 1562 5753 6960

105 Sissiboo 123 Skye

125 Sydney

111 Tidnish 130 Tracadie

112 Tusket 113 Wallace

114 Waugh

128 Wright

106 South 107 Stewiacke 126 Sutherland

108 Tangier 109 Taylor Bay Brook

110 Three Fathom Harbour

117 West Sheet Harbour 115 West: Antigonish Co.

116 West: Pictou Co.

Provincial totals:

* See variation order.

Numbers retained

0

0

20

175

0

27

22

0

TABLE 20. 1989: Catch by district.

					Nur	bers r	etaine	ed .							
	Observed		Grilse	2		Salmon		Unknown	1	[otals		Nu	umbers	releas	sed
	No. of	Obs.	Estin		Obs.	Estim	ated	Obs.	Obs.		nated	Gr	ilse	Sal	mon
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
23	1519 0	364	440	765	0	0	0	0	364	440	765	106	128	1414	1711
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 15	180	235	284	488	0	0	0	0	235	284	488	10	12	174	211
15	38	45	54	89	0	0	0	0	45	54	89	0	0		
10	982	45 607	734	1272	ŏ	0	0	0	607	734	1272	95	115	1	1 497
18	1	0	134	12/2	ŏ	0	ŏ	ő	007	134	12/2	95 0	112	411 10	497
19	297	440	532	890	ŏ	ŏ	ŏ	ŏ	440	532	890	59	71	48	58
20	412	253	306	546	ŏ	ŏ	ŏ	ŏ	253	306	546	59	71	144	174
21	18	31	38	63	ŏ	ŏ	ŏ	ŏ	31	38	63	15	íŝ	8	10
22	2	õ	ō	ō	õ	ŏ	ŏ	ŏ	ō	ō	õ	Ō	ō	ŏ	î
23	13	5	6	10	ō	ō	ō	ō	5	6	10	4	5	õ	č
24	151	180	218	361	Ō	Ō	ō	ō	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	<i>.</i> -			-		-		<i>.</i> -	•		-	,	_	-
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	973 276	1177 334	1996	224	271 87	190	230
43	249	276	334	549	0	U	0	U	276	554	549	72	87	40	48
44 45	145	78	94	155	ò	0	0	0	78	94	155	16	19	336	407
45	67	/8	10	155	0	ő	0	0	18	10	155	10	2	27	33
10		•	10	10	0	0	0	5	0	10	10	2	2	61	
rovincial totals	: 8706	7559	9145	15890	0	0	0	0	7559	9145	15890	1291	1562	5753	6960

						NUT	bers r	etaine	ea 							
		Observed		Grila	e		Salmon		Unknown	Т	otals		N	umbers	releas	ed
	County	No. of	Ора.	Estin	nated	Obs,	Estim	ated	Obs.	Obs.	Estin	nated	Gr	ilse	Salm	ion
Code	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		57	69	117	3	4	53	6
4	Colchester	1042	1179	1426	2402	0	0	0	0	1179	1426	2402	272	329	219	26
5	Cumberland	363	266	322	532	0	0	0		266	322	532	33	40	399	48
6	Digby	60	67	81	149	0	0	0	0	67	81	149	3	4	7	
7	Guysborough	1200	887	1073	1851	0	0	0		887	1073	1851	105	127	586	70
8	Halifax	743	729	882	1509	0	0	0		729	882	1509	137	166	210	25
9	Hants	109	74	90	152	0	0	0	0	74	90	152	24	29	15	1
10	Inverness	1519	364	440	765	0	0	0	0	364	440	765	106	128	1414	171
11	Kings	51	39	47	76	0	0	0	0	39	47	76	3	4	39	4
12	Lunenburg	1471	2586	3129	5517	0	0	0		2586	3129	5517	410	496	682	82
13	Pictou	360	60	73	121	0	0	0	0	60	73	121	44	53	687	83
14	Queens	526	574	694	1290	0	0	0	0	574	694	1290	31	38	228	27
15	Richmond	392	353	427	730	0	0	0		353	427	730	24	29	172	20
16	Shelburne	46	10	12	22	0	0	0	0	10	12	22	2	2	9	1
17	Victoria	452	156	189		0	0	0		156	189	293	53	64	820	99
18	Yarmouth	103	95	115	215	0	0	0	0	95	115	215	16	19	30	3
Provi	ncial totals:	8706	7559	9145	15890	0	0	0	0	7559	9145	15890	1291	1562	5753	696

TABLE 21. 1989; Catch by county.

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TABLE 22. 1989: Catch by salmon fishing area.

						Nur	bers r	etain	eđ							
		Observed		Grilse	3		Salmon		Unknown	 .1	btals		N	umbers	releas	ed
	Fishing Area	No. Of	Obs.	Estin	nated	Obs.	Estim	ated	Obs.	Obs,	Esti	mated	Gr	ilse	Salm	non
Code	Name	anglers	No.	No.	kg	No.	No.	kg	No.	No.	No.	kg	Obs.	Est.	Obs.	Est.
18 Gu 20 Ea 22 Up	pe Breton East 1f Shore Nova Scotia stern Shore per Bay of Fundy uth West Nova Scotia	998 2224 1910 1335 2239	566 574 1580 1471 3368	685 694 1912 1780 4075	1139 1199 3288 2991 7267	0 0 0 0	0 0 0 0	000000000000000000000000000000000000000	0 0 0 0	566 574 1580 1471 3368	685 694 1912 1780 4075	1199 3288 2991	80 193 223 314 481	97 234 270 380 582	1045 2650 788 306 964	1264 3206 953 370 1166
Provinc	ial totals:	8706	7559	9145	15890	0	0	0	0	7559	9145	15890	1291	1562	5753	6960

	R to a r			Observed					ding r			_	ort	Catch per	Percen
	River	Begin		No. of	Gri		Salm		Jnknown		al 	No. of r	od days	effort	large
ode	Name	D M	D M	anglers	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	Obs.	Est.	Fish/day	salmo
	Aconi Brook	15/06		2	1	1	1	1	0	2	2	15	19	0.133	50.
	Annapolis	1/05		777	3 6	4		1	0	4	5 8	61 32	76 40	0.066 0.219	25.
	Apple Baddeck	15/08 15/06		98	15	18	-	247	ŏ	219	265	392	490	0.559	14. 93.
5	Barachois	15/06	15/10	12	4	5	6	7	Ō	10	12	51	64	0.196	60.
	Barney's		31/10 *	' 1 0	5	6	1	1	0	6	7	9	11	0.667	16.
	Barrington Bass	10/05 15/08		ŏ											
	Bear	15/08	31/10	0	-	-									
	Broad Catalone	10/05 15/06		1 55	0 26	0 31	10 12	12 15	0	10 38	12 46	70 452	87 565	0.143 0.084	100 31
	Cheticamp	1/09		33	20 6	7	116	140	ŏ	122	148	237	296	0.515	95
13	Chezzetcook	1/06	29/08	0	_		_				_				
	Chiganois		31/10	· 3 0	0	0	0	0	0	0	0	10	12	0.000	0
		24/06 15/06		1	0	0	0	0	0	0	0	30	37	0.000	0
16	Clyde	10/05	15/08 *	46	12	15	9	11	Ō	21	25	345	431	0.061	42
	Cole Harbour Cornwallis	1/06		õ	4	5	0	0	0	4	5	40	52	0.005	^
	Country Harbour	15/08	22/09 *	5 21	24	29	7	8	ő	31	38	42 111	139	0.095 0.279	0 22
	Debert		31/10 .		34	41	5	6	ŏ	39	47	171	214	0.228	12
	Diligent	15/08		0											
	East Colchester East: Lunenburg Co.	15/08		03	0	0	1	1	0	1	1	5	6	0.200	100
	East: Pictou Co.	1/09		240	72	87	554	670	ŏ	626	757	1365	1705	0.459	100
		1/06	29/08 *	57	69	83	13	16	0	82	99	420	525	0.195	15
	Economy		31/10 *		6	7 87	1	1	0	7	105	79	99	0.089	14
	Ecum Secum Folly	1/06	31/10 *	53 31	72 31	38	15 6	18 7	0	87 37	105 45	403 156	503 195	0.216 0.237	17 16
		15/06		55	68	82		47	ŏ	107	129	324		0.330	36
	French		31/10 •		0	0		0	0	0	0	1	1	0.000	0
	Gaspereau: Brook Gaspereau: C. Breton	1/06		7 7	11 2	13 2	0	0	0	11 2	13 2	45 24	56 30	0.244 0.083	0
	Gaspereau: Kings Co.			46	38	46			ŏ	77	93	465	581	0.166	50
33	Gegogan	1/06	29/08	0											
	Gerratt	15/06		2	1	574	104	1	0	2	2	11	14	0.182	50
			15/08 15/10		441 258	534 312	104 62	126 75	0 0	545 320	659 387	2455 2167	3067 2707	0.222 0.148	19 19
			31/10 .		23	28	1	1	ŏ	24	29	39	49	0.615	4
	Guysborough	24/06		2	3	4		0	0	3	4	8	10	0.375	0
	Halfway Brook Harrington	1/06 15/08		2 0	0	0	0	0	0	0	0	9	11	0.000	0
	Indian Brook	15/06		7	1	1	1	1	0	2	2	10	12	0.200	50
42	Ingonish	15/06	15/10 *		6	7		24	0	26	31	116	145	0.224	76
	Ingram	1/06 15/06		13 45	9 21	11 25	0 62	0 75	0	9 83	11 100	43 317	54 396	0.209	_0
	Inhabitants Isaac's Harbour	1/06		45	19	23	02	0	ő	19	23	90	112	0.262 0.211	74 0
46	Jordan	10/05	15/08	0					-	_	_				-
		15/08		1	0	0	0 7	õ	0	0	0	7	9	0.000	0
			29/08 * 15/08 *		9 2359	11 2854	553	8 669	0	16 2912	19 3523	37 10682	46 13344	0.432	43 19
	Larry's	1/06	29/08	0					-					012/0	
51	Lawrencetown Lake	1/06		2	2	2	0	0	0	2	2	11	14	0.182	0
52	Lequille Liscomb	15/08 1/06		0 119	54	65	7	8	0	61	74	627	783	0.097	11
	Little Bass	15/08	31/10	Ő		00	-	Ū	Ū	•••		•27	,00	01057	
	Little Lorraine	15/06		0								2.0			
	Little Salmon Lorraine Brook	1/06 15/06		1 12	0 12	0 15	10 6	12 7	0	10 18	12 22	30 116	37 145	0.333 0.155	100 33
	Mabou	1/09		10	12	13	v	,	v	10	22	110	143	0.155	10
58	Maccan	15/08	31/10 *		116	140	29	35	0	145	175	863	1078	0.168	20
	Margaree	1/06 15/06	15/10 1		464 23	561 28	1298 2	1570 2	0	1762 25	2132 30	10594 73	13234 91	0.166 0.342	73
	Marie Joseph Martins	10/05		18 0	23	28	2	2	U	20	50	/3	91	0.342	8
	Meander (Avon)	15/08		ŏ											
	Medway		31/07 •		502	607	171	207	0	673	814	4252	5311	0.158	25
	Mersey Middle: Lunenburg Co		15/08 1	110 5	103 6	125 7	47 1	57 1	0	150 7	181 8	1600 15	1999 19	0.094 0.467	31
	Middle: Pictou Co.		31/10	0	0	(1	1	v	,	0	10	17	0.407	14
66	Middle: Victoria Co.	1/06	15/10	144	43	52	231	279	0	274	332	694	867	0.395	84
	Mira	15/06		26	12	15	14	17	0	26	31	197	246	0.132	53
	Moser Mushamush	1/06	29/08	111 21	159 26	192 31	5	6 7	0	164 32	198 39	965 242	1205 302	0.170 0.132	3 18
	Musquodoboit		29/08 1		253	306	137	166	ŏ	390	472	2536	3168	0.154	35
71	Nappan	15/08	31/10	2	0	0	0	0	Ō	Ō	ō	8	10	0.000	0
	Necum Teuch	1/06		0	~ ~ ~			•	^	0.5	~ ~	270	226	0 104	-
	New Harbour Nictaux	1/06 15/08		24 0	26	31	1	1	0	27	33	260	325	0.104	3
	Nine Mile		15/08	2	0	0	0	0	0	0	0	4	5	0.000	0

See variation order.

			n dates	Observed					uding r			Efi	fort	Catch per	Percent
	River	Begin	End	No. of	Gri	ilse	Salı	non		Tot	tal	No. of 1		effort	large
Code	Name	D M	DM	anglers	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	Obs.	Est.	Fish/day	
	North : Colchester				117		8	10		125		398	497	0.314	6.4
	North : Victoria Co				134		331	400		465		1074	1342	0.433	71.2
	North Aspy Northwest Brook (Riv		15/10	24 1	6 0	7	27 0	33		33 0		86 6	107 7	0.384 0.000	81.8 0.0
70	Paradino Prook			Ō	0	0	0		0	0	0	Ū	'	0.000	0.0
80	Petite Riviere		15/08 *		164	198	17	21		181	219	879 4	1098	0.206	9.4
		1/09	31/10	1	1					2	2	4	5	0.500	50.0
83	Port Dufferin Portapique	1/06	29/08	6 13	4				0	4	5 19	69 37 3	86	0.058 0.432	0.0 6.3
132	Porters Lake (East B	1/08	29/08	13	15 1		0	1	0	16 1	19	3/	46	0.333	
	Pugwash	1/09	31/10 *	ō	-	-	v		Ŭ	-	-	5	•	0.000	0.0
85	Quoddy				0	0	1	1	0	1	1	9	11	0.111	100.0
121	Ramshead (Ramsey)	15/08	31/10	0											
129	River Bennett River Deny's River Hébert River John	15/06	15/10	0											
86	River Hébert	15/06	31/10 *		73	88	6	7	0	79	96	320	400	0.247	7.6
87	River John	1/09	31/10	59	15		82		Ō	97		214	267	0.453	84.5
88	River Hebert River John River Philip River Tillard Rocky Run Porters L.	1/09	31/10	144		114				430		999	1248	0.430	78.1
89	River Tillard	15/06	15/10	22	7				0	14		73	91	0.192	50.0
01	Boooliny	10/05	15 /00	1	1	1	0	C	0	1	1	25	31	0.040	0.0
92	Round Hill	15/08	31/10	ŏ											
131	Robeway Round Hill Sackville Saint Croix Saint Esprit	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	C	-	39		217	271	0.180	0.0
93	Saint Esprit Saint Francis Saint Mary's Salmon: Cape Breton	15/06	10/10		0			C		0		8	10	0.000	0.0
94	Saint Mary's	24/06	22/09 15/09 *	1 782	0 541		0 382	462	0	0	0 1117	4 5122	5 6398	0.000 0.180	0.0 41.4
97	Salmon: Cape Breton	15/06			6		17	21	ŏ	23	28	227	284	0.101	73.9
	Salmon: Colchester	15/08	31/10 *	69	122		18	22	0	140	169	351	438	0.399	12.9
	Salmon; Digby Co.		15/08		70		7	8	0	77	93	550	687	0.140	9.1
	Salmon: Guysborough Salmon: Halifax Co.		22/09 *		242 14		174 4	211	0	416	503 22	1410 106	1761 132	0.295 0.170	41.8 22.2
	AL 1 - 1 - 1		34 44 0		14		ő	č		10	22	108	4	0.000	0.0
103	Ship Hbr.L.Charlotte	1/06	29/08	36	41		ž	4	Ő	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	Sissiboo	10/05	15/08	0											
106	South	1/09	31/10	0 8	10	12	1	1	0	11	13	26	32	0.423	9.1
107	Stewiacke	1/08	31/10 *	768		1330	175				1541			0.265	13.7
126	Shinimikas Ship Hbr.L.Charlotte Shubenacadie Sissiboo Skye South Stewiacke Sutherland Sydney Tangier	1/09	31/10	0											
125	Sydney	15/06	15/10	3	0	0	2	2		2		7	9	0.286	100.0
108	Tangier Taylor Bay Brook	1/06	29/08	5	0	0	0	0	0	0	0	11	14	0.000	0.0
110	Three Fathom Harbour	1/06	29/08	ŏ											
	Tidnish	1/09	31/10	õ											
130	Tracadie	1/09	31/10	0											
	Tracadie Tusket Wallace Waugh	1/06	15/08 *	103	111					141		1128	1409	0.125	21.3
	Wallace Waugh	1/09	$\frac{31}{10}$	67 24	10			33		37 8		191 74	239 92	0.194 0.108	73.0 50.0
	West Sheet Harbour	1/09	29/08 *	107		312			Ö	280	339	1657	2070	0.169	7.9
115	West: Antigonish Co.	1/09	31/10	99	74				0	280 254	307		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	cial totals:			8706	8850	10707	5753	6960	0	14603	17668	66146	82627	0.221	39.4
*	See variation order														

* See variation order.

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	Observed		Numbe	rs caugh	t (inclu	uding rele	ases)		Ef	fort	Catch per	Percent
	No. of	Gri	lse	Salı	ກວກ	Unknown	Tot	al	No. of	rod days	effort	large
District	Anglers	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	Obs.	Est.	fish/day	Salmor
1	29	12	15	47	57	0	59	71	232	290	0.254	79.3
2	1519	470	569	1414	1711	0	1884	2279	10831	13530	0.174	75.1
3 4	0 423	197	238	773	935	0	970	1174	2221	2774	0.437	79.7
6	6	1	1	3	4	ŏ	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 85	93	555	671	0	632	765	1374 450	1716	0.460	87.8
13 14	108 180	245	103 296	182 174	220 211	ő	267 419	323 507	1422	562 1776	0,593 0,295	68.2 41.5
15	180	245	290	1/4	211	0	419	507	1422	1770	0.295	41
16	38	45	54	1	1	0	46	56	350	437	0.131	2.3
17	982	702	849	411	497	Ō	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	14.6
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 25	151	195	236	36	44 136	0	231	279	1223	1528 3394	0.189	15.6
25	307 1164	473 2523	572 3052	112 570	690	0	585 3093	708 3742	2717 11561	14442	0.215 0.268	19.1 18.4
28	526	605	732	228	276	ő	833	1008	5922	7398	0.141	27.4
30	520	005	152	220	210	v	000	1008	3366	1390	0.141	27.4
31	46	12	15	9	11	0	21	25	345	431	0.061	42.9
32	ŏ	12	10	-		Ŭ	~ 1	23	5.5	101	0.001	
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 45	0 145	94	114	336	407	0	430	520	1002	1252	0.429	78.3
45	67	10	114	27	33	0	430	45	191	239	0.194	73.(
10	07	10	14	41		v	57	- J	191	233	0.124	/3.0
ncial tota	ls 8706	8850	10707	5753	6960	0	14603	17668	66146	82627	0.221	39.4

		Observed		Number	s caught	(incl)	uding rele	ases)		Effo	rt	Catch per	Percent
	County	No. of	Gri	l1se	Sal	mon	Unknown	Tot	a1	No. of r	od days	effort	large
Code	Name	Anglers	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	Obs.	Est.	fish/day	salmon
1	Annapolis	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	1471	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 25. 1989; Catch and effort by county.

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

		Observed		Numbe	rs caug)	nt (inc	luding re	eleases)	Ef	fort	Catch per	Percent
	Fishing Area	No. of	Gr	ilse	Sal	mon	Unknown	То	tal	No. of 1	od days	effort	large
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.

				Number	of 1	Eish				Gri	lse			Sa	lmon		Percent
Mon	th	Grilse		Salmon	τ	Jnknown	То	tal	Le	ngth	Wei	ight	Ler	ngth	Wei	ight	large
No.	Name	Obs. Est				Obs.	Obs.	Est.	No.		No.		No.		No.		salmo
6 7 8	June July Aug																
9 10	Sept Oct	1	1	0	0	0	1	1	1	55.9	0	0.0	0	0.0	0	0.0	0.
	total:	1	1	0	0	0	1	1	1	55.9	0	0.0	0	0.0			0.
Annapo				er code:													
				Number	of f	Eish				Gri	lse			Sa			
Mon	th	Grilse			τ		То	tal	Lei		Wei	ight			Wei		large
No.	Name	Obs. Est				Obs.	Obs.				No.		No.	Mean			salmo:
5 6 7	May June July	1 2	1 2	0 0	0 0	0 0	1 2			62.5 58.4	1 2		0 0	0.0	0 0	0.0	0.
River	total;	3	4	0	0	0	3	4	3	59.8	3	2.0	0	0.0	0	0.0	0.
مامعا			Divo	m anda.		2		dataa	. 15 / 0 /	0 50 7	1 /10 /00						
				Number						 Gri				Sa	lmon		Percen
Mon	th	Grilse		Salmon		Jnknown	То	tal	Lei	nath	Wej	ight	Ler			ight	large
		Obs. Est	-	Obs. Est		Obs.			 No.	Mean	No.	Mean	No.		No.		salmo
8	Aug	1	1	0	0	0	1	1		0.0		1.8		0.0	0	0.0	0.
9 10	Sept Oct	5	6	0	0	0	5	6	5	54.9	5	1.2	0	0.0	0	0.0	0.
River	total:	6	7	0	0	0	6	7	5	54.9	6	1.3	0	0.0	0	0.0	0.
Baddec			Rive	r code:		4 5	Season	dates	: 15/ 6/	39 to 1	5/10/89	9.					
				Number	ofi	fish				Gri				Sa			
Mon	th			Salmon	ξ	Jnknown	То	tal	Le		Wei	ight	Ler	ngth	Wei	ight	large
	Name	Obs. Est							No.				No.	Mean			salmo:
7 8	June July Aug																
9 10	Sept Oct	1 6		0 0	0 0	0 0		1 7	1 6	58.4 56.4	1 3	1.9 1.7		0.0 0.0		0.0 0.0	0. 0.
River	total:	7	8	0	0	0	7	8	7	56.7	4	1.7	0	0.0	0	0.0	0.
	ois		Rive	er code:		5 5	Season	dates	: 15/ 6/	39 to 1	5/10/89	9.					
				Number	ofi	fish				Gri	lse			Sa	lmon		
	th	Grilse	_	Salmon	τ	Jnknown	То	tal	Le	ngth	We	ight	Ler	ngth	Wei	ight	large
No.	Name	Obs. Est		Obs. Est		Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
	June July Aug																
7 8																	
7	Sept	3	4	0	0	0	3	4	3	56.6	2	2.4	0	0.0	0	0.0	0.

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				Number													Percent
Mo	nth	Grila	 3e					 1									large
		Obs. Es												· · · · · · · ·			salmo
9	Sept																
10	Oct	1	1	0	0	0	1	1	0	0.0	1	1.4	0	0.0	0	0.0	0.
Rive	r total:	1	1	0	0	0	1	1	0	0.0	1	1.4	0	0.0	0	0.0	0.
Se	e variati	on order															
atal				ver code:					15/ 6/8								
				Number	of f	ish				Gri	lse			Sa	lmon		Percen
Mo	nth	Grile	3e	Salmor	ט נ	nknown	Tota	1	Len	gth		ght	Ler	ngth	Wei		
	Name	Obs. Es		Obs. Est		.adO	Obs. E		No.			Mean	No.	Mean	No.	Mean	salmo
6 7	June			0	0	0	1			58.4	1	1.8	0	0.0	0	0.0	0.
8	July Aug	1 3	1 4	0	ō	Ō	1 3	1	3	51.6	3	1.3	Ō	0.0	Ō	0.0	0.
9 10	Sept Oct	8 13	10 16	0 0	0 0	0	8 13	10 16		55.4 55.7		1.6 1.6	0 0	0.0	0 0	0.0	0. 0.
Rive	r total:	25	30	0	0	0	25	30	25	55.2	23	1.6	0	0.0	0	0.0	0.
heti				ver code:													
				Number							lse				lmon 		Percer
Month		Grils		Salmon						gth 	Wei	.ght		ngth	Wei	ght	large
No.	Name	Obs. Es		Obs. Est		Obs.			No.			Mean	No.			Mean	salmo
9 10	Sept Oct	5		0		0	5			55.9		1.7	0		0	0.0	0.
Rive	r total:	5	6	0	0	0	5	6	2	55.9	5	1.7	0	0.0	0	0.0	0.
Fo	r Chetica	mp catch	refe	r to Table	28	on page	e 68.										
lyde				ver code:													
				Number							lse				lmon		
Mo	nth			Salmor				1		gth	Wei	.ght		ngth	₩ei	ght	large
No.	Name	Obs. Es	 st.	Obs. Est		Obs.	Obs. E		 No.			Mean	 No.	Mean	 No.	Mean	salmo
5	Мау																
6 7	June July	7	8	0	0	0	7	8	7	58.7	6	2.0	0	0.0	0	0.0	Ο.
8	Aug	3	4	ō	Ō	Ō	3	4		54.6	2	1.4	Ō	0.0	Ő	0,0	0.
Rive	r total:	10	12	0	0	0	10	12	10	57.5	8	1.8	0	0.0	0	0.0	Ο.
See	e variatio	on order.															
ornwa	allis		Riv	ver code:	1	8 9	Season d	ates:	15/ 8/8	9 to 3	1/10/89						
				Number						Gri					lmon		Percen
	nth	Grile		Salmor						gth	Wei	ght				ght	large
Moi	Name	Obs. Es		Obs. Est			Obs. E					Mean				Mean	salmo
No.	Aug																
No. 8 9	Sept	1	1	0	0	٥	1	1	1	53 3	0	0 0	٥	0 0	0	0.0	^
No. 8 9 10	Sept Oct	1	1	0 0	0 0	0 0	1			53.3 53.3		0.0	0	0.0	0	0.0	0. 0.

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				Number						Gril	lве			Sa	lmon		Percent
	nth	Gri	lse	Salmo	n	Unknown	Tot	al	Len	gth	Wei	ght	Ler	igth	We	ight	large
No.	Name		Est.			Obs.		Est.			No.	Mean		Mean		Mean	salmo
6	June																
7 8	July Aug	9 2	11 2	0	0	0	9 2	11 2		52.8 55.9	9 2	1.6 1.8	0	0.0	0	0.0	0. 0.
9	Sept	7		ŏ	ŏ	ŏ	7	ê		55.9	7		ŏ	0.0	ŏ	0.0	ö.
Rive	r total:	18	22	0	0	0	18	22	9	54.5	18	1.6	0	0.0	0	0.0	ο.
Se	e variati	on orde	r.														
eber	t		Ri	ver code	L	20 5	Season	dates:	15/ 8/8	9 to 31	L/10/89	. •					
				Number		fish				Gril	lse			Sa	lmon		
Mo	nth	Gri	lse	Salmo	on	Unknown	Tot	al	Len	gth	Wei	ght	Ler	igth	We	ight	large
	Name			Obs. Es				Est.	No.		 No.			Mean			
	Aug																
9	Sept	1	1 34	0	0	0	1	1 34		55.9 57.6		1.1		0.0	0	0.0	0.
10	Oct													0.0	0	0.0	0.
	r total:			0	0	0	29	35	26	57.6	17	1.5	0	0.0	0	0.0	0.
Se	e variati	on orde:	r.														
asti	Pictou C	o.	Rİ	ver code		23 5	Season	dates	1/9/8	9 to 31	1/10/89						
				Numbei													
	nth 			Salmo								ght 	Ler	ngth	We	ight 	large
No.	Name	Obs. 1	Est.	Obs. Es	st.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
9		5 29	6	0	0	0	5	6 35		56.0 57.3	5	1.6	0	0.0		0.0	0. 0.
						-											
Rive	r total: 	34	41		0	0	34	41	29	57.1	32	1.7		0.0	0	0.0	0.
Se	e variati	on orde:	r.														
act.	Sheet Ha	rbour	Ri	ver code	•	24	Season	dates	1/ 6/8	9 to 29	9/ 9/89	•					
															lmon		
MO:	nth 	Gri	lse			Unknown		al				ght 		ngth			-
No	Name		Est.	Obs. Ea	st.	Obs.	Obs.	Ēst.	No.	Mean	No.	Mean	No.				salmo
	June July	11 29		0			11 29		10 27	55.1	11 29	1.6	0				0.
6	Aug			0	ŏ	ŏ		22	27 18	54.2	17	1.7	ő	0.0	0 0	0.0	0. 0.
			70	0	0	0	58	70	55	54.0	57	1.6	0	0.0	0	0.0	0.
6 7 8 Rive	r total:	58															
6 7 8 Rive	r total: e variati																
6 7 8 Rive																	
6 7 8 Rive: Se	e variati my	on orde:	r. Ri	ver code													
6 7 8 Rive: Se	e variati	on orde:	r. Ri	Numbei	r of	fish				Gril	lse			Sa	lmon		
6 7 8 Rive: Se	e variati my	on orde:	R1 R1	Numbe	r of On	fish Unknown	Tot	al	Len	Gril	lse Wei	 ght	Ler	Sa ngth	lmon We	lght	
6 7 8 Rive Seconol	e variati my nth Name	on orde: Gri Obs.	R1 R1 Ise Est.	Number Salmo Obs. Er	r of On	fish Unknown Obs.	Tot Obs.	al Est.	Len No.	Gril gth Mean	Wei No.	ght Mean	Ler No.	Sa ngth Mean	lmon We: No.	lght Mean	large salmo
6 7 8 Rive: Seconol	e variati my nth Name	on orde: Gri Obs.	R1 R1 Ise Est.	Number Salmo Obs. Er	r of On	fish Unknown Obs.	Tot Obs.	al Est.	Len No.	Gril gth Mean	Wei No.	ght Mean	Ler No.	Sa ngth Mean	lmon We: No.	lght Mean	large salmo
Rive Se Se Mo No.	e variati my nth Name Aug Sept	Gri Gri Obs.	R1 R1 Ise Est.	Numbe Salmo Obs. Ei	r of On St.	fish Unknown Obs.	Tot Obs.	al Est.	Len No.	Gril gth Mean	Wei No.	ght Mean	Ler No.	Sa ngth Mean	lmon We No.	lght Mean	large salmo
6 7 8 Rive Se 5 5 0 No 9 10	e variati my nth Name Aug	Gri Obs. 1 6	Ri Ri Ise Est. 7	Numbe: Salmo Obs. Er	r of on st.	fish Unknown Obs.	Tot Obs.	al Est. 7	Len No.	Gril gth Mean	Wei No.	ght Mean 1.4	Ler No.	Sa ngth Mean 0.0	1mon We: No. 	Mean 0.0	large øalmo

				Number	of	fish				Gri	lве			Sa	lmon		Percent
	th			Salmo	n	Unknown	Tot	al	Ler	ngth		ght					large
No.	Name	Obs. E	st.	Obs. Es	st.	Oba.	Obs.	Est.	No.		No.		No.	Mean	No.		
6	June	15	18	0	0	0	15	18	14	54.9	14	1.6	0	0.0	0	0.0	0.
7 8	July Aug	33 15	40 18	0	0	0	33 15	40 18	30 14	54.2 52.4	30 15	1.7 1.7	0	0.0	0	0.0	0. 0.
River	total:	63	76	0	0	0	63	76	58	53.9	59	1.7					0.
Folly				ver code													
				Number	of	fish				Gri	lse			Sa	lmon		
	ith	Gril	ве	Salmo	n	Unknown	Tot	al			Wei			gth			large
No.	Name	Obs. E	st.	Obs. Es	st.	Obs.	Obs.	Est.	No.	Mean	No,	Mean	No.	Mean	No.	Mean	salmo
8	Aug Sept Oct			0 0				4				1.7 1.7			0		0.
	total:			0								1.7					0.
	variatio																
500	, ar fuction																
rambo	іве		Riv	ver code:		28 5	Season	dates:	15/ 6/8	9 to 1	5/10/89).					
				Number		fish								Sa			Percen
Mon	th			Salmo	n		Tot	al		ngth	Wei		Len			ght	large
	Name	Obs. E		Obs. Es	st.	Obs,	Obs.	Est.		Mean	No.	Mean	No.	Mean	No.	Mean	salmo
6									9		9	1.8	0	0.0	0		0.
8 9 10	July Aug Sept Oct	1 16	1 19	0 0 0	0 0	0	1 16	1 19	0	0.0	1 16	1.7 1.8 1.6	0	0.0	0 0	0.0	0. 0.
River	total:	63	76	0	0	0	63	76	59	55.9	63	1.7	0	0.0	0	0.0	0.
Gasper	eau: Bro	ok	Riv	ver code:		32 5	Season	dates:	1/ 6/8	19 to 2	9/8/89).					
				Number	of	fish				Gri	lse			Sa	lmon		Percen
Mon	th	Gril	se	Salmo	n	Unknown	Tot	al	Ler	igth	Wei	ght	Len	gth	Wei	ght	large
No.	Name		st.	Obs. Es	st.		Obs.		No.		No.		No.	Mean		Mean	
6	June			0 0 0				6	1	55.9	5	1.4	0	0.0	0	0.0	0.
7 8	July Aug	4	5	ő	0	0 0	4	5	1	53.3 48.3	4	1.4 1.7	0	0.0	0	0.0	0. 0.
River	totalı	11	13	0	0	0	11	13	3	52.5	11	1.5	0	0.0	0	0.0	0.
acror	eau: C. H	Breton	Di	ver code		30 0	Season	dat on .	15/ 6/9	0 to 1	5/10/90	,					
														Sa			
Mon	th			Salmo													
	Name	Obs. E	st.	Obs. Es	 t.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean		Mean	ваlmo
6 7 8	June July Aug																
9	Sept	2	2	0	٥	0	2	2	0	0.0	2	1.7	0	0.0	0	0.0	0.
10	OCE	-	-	•	•	•	-		•	0.0	-		•			0.0	

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				Number	of	fish				Gri				Sa			Percent
	ith		lse	Salmo	n	Unknown	Tot	al	Len	gth	Wei	ght	Len	igth		ght	large
No.	Name		Est.			Obs.		Est.				Mean		Mean	No.	Mean	salmo
5	Мау	1	1	0	0	0	1	1	1	61.0	1	1.6	0	0.0	0	0.0	0.
6 7	June July	11 25	13 30	0 0 0	0	0	11 25	13 30	11 25	56.5	11 25	1.8	0 0 0 0	0.0	0	0.0	0. 0.
8	Aug	1	1	ŏ	ŏ	ŏ	1	1	1	50.8	1	1.4	ŏ	0.0	ŏ	0.0	ö.
River	total:	38	46	0	0	0	38	46	38	55.4	38	1.6	0	0.0	0	0.0	0.
Gerrat				ver code:													
				Number		fish									lmon		Percen
	th			Salmo			Tot	al	Len	gth	Wei	ght	Len	igth	Wei	.ght	large
No.	Name		Est.	Obs. Est	t.	Obs.	Obs.	Est.	No.		No.	Mean	No.		No.		salmo
6 7 8 9	June July Aug	1		0	0	0		1				1.6		0.0		0.0	
10	Oct total:	-	1	0			1	1		58.4		1.6			-	0.0	0.
old				ver code:													
				Number		fish					lse 				1mon 		Percer
Mon	1th	Gri		Salmon 		Unknown		al 			Wei		Ler	igth		ght	large
No.	Name		Est.	Obs. Es		Obs.						Mean		Mean			salmo
-	Maur	2	2	0	~	0	2	2	2	55.9	2	1.5	0	0.0	0	0.0	0.
6 7	June July	283	342	0 0 0	0	0	283	342	242 91	54.8	266	1.7 17	0	0.0	0 0 0	0.0	0. 0.
	Aug	4	5	Ō	ō	õ	4	5	4	56.2	1	1.6	Ō	0.0	ō	0.0	0.
River	total:	396	479	0	0	0	396	479	339	54.8	348	1.7	0	0.0	0	0.0	0.
See	variatio	on orde:	r.														
Grand				ver code:													
				Number	of	fish				Gri	lse			Sa	lmon		Percen
						Um less av m	Tot	al		ath			Ler	igth		ght	large
Mon	th			Salmo											No.		e a l mo
Mon No.	Name	Obs. 1	Est.	Obs. Es	 E.	Obs.	Obs.	Est.	No .	Mean	No.	Mean					
Mon No.	Name	Obs. 1	Est.	Obs. Es	 t.	Obs.	Obs.	Est.	No.	Mean	No. 54	1.6	0				
Mon No. 6 7	Name June July	Obs. 1 60 100	Est. 73 121	Obs. Es 0 0	0 0	Obs. 0 0	Obs. 60 100	Est. 73 121	No. 48 87	Mean 55.3 56.0	No. 54 88	1.6 1.8	0 0	0.0	0	0.0	0.0
Mon No. 6 7 8 9	Name June July	Obs. 1 60 100	Est. 73 121	Obs. Es 0 0 0	0 0 0	Obs. 0 0 0	Obs. 60 100 16 36	Est. 73 121 19	NO. 48 87 13	Mean 55.3 56.0 56.0	No. 54 88 12	1.6 1.8 1.7	0 0 0	0.0 0.0 0.0 0.0	0 0 0	0.0 0.0 0.0 0.0	0 0 0 0
Mon No. 6 7 8 9 10	Name June July Aug Sept Oct	Obs. 1 60 100 16 36 28	73 121 19 44 34	Obs. Es 0 0 0 0 0 0	0 0 0 0 0	Obs. 0 0 0 0 0 0	Obs. 60 100 16 36 28	Est. 73 121 19 44 34	No. 48 87 13 32 26	Mean 55.3 56.0 56.0 56.2 53.5	No. 54 88 12 22 24	1.6 1.8 1.7 1.7 1.6	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0 . 0 . 0 . 0 .
Mon No. 6 7 8 9 10	Name June July	Obs. 1 60 100 16 36 28	73 121 19 44 34	Obs. Es 0 0 0	0 0 0 0 0	Obs. 0 0 0 0 0 0	Obs. 60 100 16 36 28	Est. 73 121 19 44 34	NO. 48 87 13	Mean 55.3 56.0 56.0 56.2 53.5	No. 54 88 12 22 24	1.6 1.8 1.7 1.7 1.6	0 0 0	0.0 0.0 0.0 0.0 0.0	0 0 0 0	0.0 0.0 0.0 0.0	
Mon No. 6 7 8 9 10 River	Name June July Aug Sept Oct	0bs. 1 60 100 16 36 28 240	73 121 19 44 34 290	Obs. Es 0 0 0 0 0 0	0 0 0 0 0	Obs. 0 0 0 0 0 0	Obs. 60 100 16 36 28	Est. 73 121 19 44 34	No. 48 87 13 32 26	Mean 55.3 56.0 56.0 56.2 53.5	No. 54 88 12 22 24	1.6 1.8 1.7 1.7 1.6	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0 . 0 . 0 . 0 .
Mon No. 6 7 8 9 10 River See	Name June July Aug Sept Oct total: variatio	Obs. 1 60 100 16 36 28 240 on orde:	Est. 73 121 19 44 34 290 r. Riy	Obs. Es 0 0 0 0 0 0 0 0 0 0 ver code:		Obs. 0 0 0 0 0 0 0 37 5	Obs. 60 100 16 36 28 240	Est. 73 121 19 44 34 290 	No. 48 87 13 32 26 206 15/ 8/8	Mean 55.3 56.0 56.0 56.2 53.5 55.6 9 to 3	No. 54 88 12 22 24 200 1/10/89	1.6 1.8 1.7 1.7 1.6 1.7	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0. 0. 0. 0.
Mon No. 6 7 8 9 10 River See	Name June July Sept Oct total: variatio	Obs. 1 60 100 16 36 28 240 on order	Est. 73 121 19 44 34 290 r. Ri	Obs. Es 0 0 0 0 0 0 0 0 ver code:	0 0 0 0 0 0	Obs. 0 0 0 0 0 0 0 37 5 fish	Obs. 60 100 16 36 28 240	Est. 73 121 19 44 34 290 	No. 48 87 13 32 26 206 15/ 8/8	Mean 55.3 56.0 56.0 56.2 53.5 55.6 9 to 3 Gri	No. 54 88 12 22 24 200 1/10/89 1se	1.6 1.8 1.7 1.7 1.6 1.7	000000000000000000000000000000000000000	0.0 0.0 0.0 0.0 0.0 0.0 Sa	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0. 0. 0. 0.
Mon No. 6 7 8 9 10 River Sreat	Name June July Aug Sept Oct total: variatio	Obs. 1 60 100 16 36 28 240 on order Gri	Est. 73 121 19 44 34 290 r. Ri, Ri,	Obs. Es 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	Obs. 0 0 0 0 0 0 0 37 5 fish Unknown	Obs. 60 100 16 36 28 240 Ceason	Est. 73 121 19 44 34 290 	No. 48 87 13 32 26 206 15/ 8/8	Mean 55.3 56.0 56.0 56.2 53.5 55.6 9 to 3 Gri gth	No. 54 88 12 22 24 200 1/10/89 1se 	1.6 1.8 1.7 1.7 1.6 1.7	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 Sa	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0. 0. 0. 0. 0. 0. Percer
Mon No. 6 7 8 9 10 River Sreat Sreat No.	Name June July Aug Sept Oct total: variatio Village	Obs. 1 60 100 16 36 28 240 	Est. 73 121 9 44 34 290 r. Riv 1se Est.	Obs. Es 0 0 0 0 0 0 0 0 ver code:	0 0 0 0 0 0	Obs. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Obs. 60 100 16 28 240 	Est. 73 121 19 44 34 290 dates: al Est.	No. 48 87 13 32 26 206 15/ 8/θ 15/ 8/θ	Mean 55.3 56.0 56.0 56.2 53.5 55.6 9 to 3 Gri gth Mean	No. 54 88 12 22 24 200 1/10/89 1se Wei No.	1.6 1.8 1.7 1.7 1.6 1.7 . * . ght 	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 Sa	0 0 0 0 0 1mon 	0.0 0.0 0.0 0.0 0.0 0.0 .0	0. 0. 0. 0. 0. 0. Percer large salmo
Mon No. 6 7 8 9 10 River See Sreat Mor No. 8 9	Name June July Sept Oct total: variatio Village	Obs. 1 60 100 16 36 28 240 on order Gri Obs. 1	Est. 73 121 9 44 34 290 5. Riv 1se Est.	Obs. Es 0 0 0 0 0 0 0 0 0 0 0 8 8 1 moi Obs. Es	0 0 0 0 0 0 0	Obs. 0 0 0 0 0 0 37 5 fish Unknown Obs.	Obs. 60 100 16 36 28 240 	Est. 73 121 19 44 290 dates: Est.	No. 48 87 13 32 26 206 15/ 8/θ 15/ 8/θ	Mean 55.3 56.0 56.0 56.2 53.5 55.6 9 to 3 Gri gth Mean	No. 54 88 12 22 24 200 1/10/89 15e Wei No.	1.6 1.8 1.7 1.7 1.6 1.7 . * . * 	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 Sa Igth Mean	0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0	O. O. O. O. O. Percer large salmo

* See variation order.

	orough			Numbe:	r of	fish				Gri	lse			Sa	lmon		Percent
Mor	nth	Grils	е	Salm	on	Unknown	Tot	tal		igth		ght			Wei		large
No.	Name			Obs. E				Est.					No.		No.		
8	June July Aug	1 2	1 2	0	0		1 2			51.6 55.9	1 2	1.4 1.6	0 0	0.0 0.0	0 0	0.0	0.0
	Sept total;	3	4	0	0	0	3	4	3	54.4	3	1.5	0	0.0	0	0.0	0.0
	Brook																
				Numbe	r of	fish				Gri	lse				lmon	· ·	
Mor	nth			Salm	on	Unknown	To	tal	Ler	gth	Wei	ght	Ler	ngth	Wei		large
	Name	Obs. Es	t.	Obs. E	вt.	Obs.	Obs.	Eet.	No.	Mean	No.	Mean	No.	Mean		Mean	sa1mor
6 7 8	June July Aug Sept Oct				0		1		1				0	0.0	0	0.0	0.0
	total:	1	1	0	0	0	1	1	1	55.9	1	1.4	0	0.0	0	0.0	0.0
Ingoni						42											
	Number of									Gri	lse			Sa	lmon		
Mor	hth	Grils	е	Salm	on	Unknown	Tot	tal	Ler	gth	Wei	ght	Ler	ngth		ght	large
No.	Name	Obs. Es				Obs.	Øbв.	Est.			No.			Mean	No.	Mean	salmor
6 7	June July Aug	2	2	0	0		2	2	0	0.0		1.6	0	0.0	0	0.0	0.0
9 10	Sept Oct	2 2	2 2	0 0 0	0 0	0 0	2 2	2 2	0 0	0.0 0.0	2 2	1.6 1.6	0 0	0.0 0.0	0 0	0.0 0.0	0.0 0.0
River	total:	6	7	0	0	0	6	7	0	0.0		1.6			0	0.0	0.0
• See	e variatio	on order.															
Ingram						43											
						fish				Gri	lse						
Mor	nth	Grils	е	Salm	on	Unknown	Tot	tal	Ler	igth	Wei	.ght	Ler	igth	Wei	ght	large
	Name	Obs. Es				Obs.				Mean		Mean	No.	Mean	No.		salmor
6 7	June July Aug	3 2	4 2	0	 0 0		32	4 2		58.4 53.3	 3 2	1.8 1.5	0	0.0	 0 0		0.0
River	total:	5	6	0	0	0	5	6	3	55.0	5	1.7	0	0.0	0	0.0	0.0
	tants					44 :											
				Numbe:	r of	fish				Gri	lse			Sa	lmon		Percent
	nth 					Unknown			Ler	gth	Wei	ght	Ler	ngth			large
		Obs. Es	t.	Obs. E	st.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	sa1mor
Mor																	
Mor No. 6 7 8	June July Aug			-		-	-	-	-	5 0 •			-	<u> </u>	-	. .	
Mor No. 6 7 8	June July Aug	5 15	6 18	0 0	0 0	0 0	5 15	6 18	5 12	58.4 57.6	4 14	1.9 1.9	0 0	0.0	0 0	0.0	0.0

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				Number	of	fish				Gri	lse			Sa	lmon		Percent
Mon	th	Gri				Unknown										ght	large
No.		Obs.	Est.	Obs. Ea	st.	Obs.	Obs.	Est.	No.	Mean		Mean	No.		No.	Mean	
6	June	~-5	6	0	0	0	5	6	5	55.4	5	1.8	0	0.0	0	0.0	0.0
7 8	June July Aug	11 3	13 4	0	0	0	11 3	13 4	11 0	53.5 0.0	11 3	1.6	0	0.0	0	0.0	0.0
River	total:	19	23	0	0				16								
Kirby			Riv	ver code:		48 S	eason	dates:	1/ 6/8	19 to 2	9/ 8/89	. *					
						fish				Gri				Sa	lmon		Percent
Mon	th					Unknown					_ ~						
	Name					Obs.											-
	June																0.0
	July Aug		6	Ō	ő	0 0 0	5	6	3 0	52.5	5	1.6	0	0.0	Ő	0.0	0.0
				0													0.0
River	total;	8 				0		10	3	52.5	8 8	1.7	0	0.0			0.0
* See	variatio	n orde	r.														
LaHave			Ri	ver code		49 9	eason	dates:	10/ 5/6	19 to 1	5/ 8/89						
				Number						Gri					lmon		Percent
N	- 1-																
						Unknown											
	Name					.adO					No.		No.		No.		salmor
5 6	May June July Aug	10 1407	12 1702	0	0	0	10 1407	12 1702	10 1202	55.9 56.2	10 1318	1.7	0 0	0.0	0	0.0	0.0
7	July	592	716	Ő	Ő	Ő	592	716	518 10	56 2	550	1 0		0 0	0	0 0	0.
																	0.0
	total:						2021	2445	1/40	56.2	1898	1.8		0.0		0.0	0.0
* See	variation	n orde	r.														
	cetown La																
				Number	of	fish				Gri	lse			Sa	lmon		
Mon	th			Salmo	n	Unknown	To	tal	Ler			ght	Ler		Wei		large
	Name					Obs.							 No.		 No.		
	June																
	July Aug	2	2	0	0	0	2	2	2	58.4	2	1.4	0	0.0	0	0.0	0.0
River	total:	2	2	0	0	0	2	2	2	58.4	2	1.4	0	0.0	0	0.0	0.0
Liscom	b					53 S											
				Number	r of									Sa	lmon		Percen
Mon	th	Grí	lse	Salmo	n	Unknown	To	tal	Ler	ngth	Wei	ght	Ler	gth		ght	large
	Name		Est.	Obs. Es	st.	Oba.	Obs.	Est.	No.		No.	Mean	No.		No.	Mean	
6	June	12	15	0		0	12						0	0.0	0	0.0	0.0
7	July Aug	25	30	0 0	-	ō	25 3	30	11 23 3	55.3	24	1.7	0 0 0	0.0	Ő	0.0 0.0	0.0
0	Aug			-	-	-	-		3		3	1.0					
	total:		48	0		0			37				0	0.0	0		0.0

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						fish				Gri				Sa			Percent
Mor	nth	Gri	lse	Salmo	n	Unknown	Tot	al			Wei	ght			 Wei		large
No.	Name		Est.	Obs. Ea		Obs.			No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
6	June	 		0	0	0	3	4		58.8	3	2.0	 0	0.0		0.0	
8	July Aug	3	4	-	-	-	_						_		-		
9 10	Sept Oct	4 3	5 4	0	0 0	0	4 3	5 4		56.5 51.2	3 3	2.2 1.4		0.0		0.0 0.0	0. 0.
River	total:	10	12	0	0	0	10	12	9	56.1	9	1.9	0	0.0	0	0.0	0.
accar) 		Ri	ver code		58 5											
				Numbei		fish				Gri				Sa			
	nth	Gri		Salmo	n		Tot	al				ght			Wei		large
No.	Name			Obs. E					No.				No.				salmo
9	Aug Sept Oct	20 27 61	24 33 74	0 0 0	0 0 0	0 0 0	20 27 61	24 33 74	18 19 49	53.6 54.4 56.0	20 24 45	1.8 1.5 1.7	0	0.0 0.0 0.0	0	0.0 0.0 0.0	0. 0. 0.
River	total:	108	131	0	0	0	108	131	86	55.2	89	1.7	0	0.0	0	0.0	ο.
See	e variati	on orde	r.														
	ree			ver code													
						fish					1se				lmon		Percer
	ith	Gri		Salmo		Unknown		al		igth		.ght		gth		ght	large
No.	Name	Obs. 1	Est.	Obs. Ea	st.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.		
	June July	45 123	54 149	0	0	0	45 123	54 149		55.9 55.8	43 106	$1.6 \\ 1.7$	0	0.0	0	0.0	0 0
8 9	Aug	63 80	76	0 0 0	Ö	0	63 80	76	52	56.1 57.6	60 74	1.7 1.8 1.7 1.9	0	0.0	0	0.0	0.
10		48	58	Ō	Ō	Ō	48	58	41	57.5	38	1.9	0	0.0	0		0.
River	total:	359	434	0	0	0	359	434	291	56.5	321	1.7	0	0.0	0	0.0	0.
See	e variati	on orde	r.														
arie	Joseph		Riv	ver code		60 9	Season	dates:	15/ 6/8	9 to 1	5/10/89).					
				Number	of	fish				Gri				Sa			
	th		lse	Salmo	n		Tot	al	Ler	igth	Wei	ght	Ler	gth		ght	
No.	Name	Obs. 1	Est.	Obs. Es	st.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	ваlmo
6 7			11	0	0	0		11 10	9	55.3 56.4		1.7	0		0		0. 0.
	Aug Sept		1	Ö	0	ŏ	1	1	1	48.3	1 1	1.6		0.0		0.0	Ο.
10	Oct	4	5	ŏ	ŏ	ŏ	4	5	4		4	1.4	ő	0.0	ő	0.0	0. 0.
River	total:	23	28	0	0	0	23	28	23	54.5	23	1.7	0	0.0	0	0.0	0.
ledway	, 		Ri	ver code		62 9	Season	dates:	10/ 5/8	9 to 3), *					
				Number		fish									lmon		Percer
	ith	Gri	lse			Unknown		al		gth 	Wei	ght	Len		Wei	ght	large
	Name			Obs. Es	st.	Оbв.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
5 6	May June July	5 343	6 415	0	0	0	5 343	6 415	5 291	59.3 57.0	3 323	2.0 1.9 1.9	0	0.0	0	0.0	0. 0.
7	July	127	154	ŏ	ŏ	õ	127	154	102	56.9	114	1.9	ő	0.0	0 0	0.0	0.
				0													Ο,

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				Number		fish											
Mon	th			Salmon							Wei				Wei		
No.	Name	Obs, 1		Obs. Es		Obs.	Obs.		No.	Mean	 No.				No.		-
5	May																
6	June	27	33	0	0	0	27	33		55.6	26	1.7	0	0.0	0	0.0	0.0
7 8	July Aug	54 18	65 22	0	0	0	54 18	65 22		56.7 56.9	52 18	1.8 2.0	0	0.0	0	0.0	0.
	totalı		120	0	0	0	99	120	97				-	0.0	0		0.
See	variati	on orde															
uaale	. Lunenh	ura Co	Di	ver code:		64 S		dat og i	10/ 5/8	9 50 1	5/ 0/00						
															lmon		Percen
	th	Gri	lвe		n	Unknown	Tot	al	Len	gth		ght	Len	gth	Wei	ght	large
No.	Name		Est.	Obs. Es		Obs.		Est.		Mean	No.	Mean	No.		No.		
5 6	May	1		0	0	0		1	0	0.0			0	0.0	0	0.0	0.0
8 0 0	June July Aug	2	1 2	0	0	0	1 2	2	0	0.0	1 2	1.7 1.7	0	0.0	0	0.0	0.0
River	total:	3	4	0	0	0	3	4	0	0.0	3	1.7	0	0.0	0	0.0	0.
siddle	· Victor	ia Co.	Ri	ver code:		66 S	eason	dates:	1/ 6/8	9 to 1							
				Number	of	fish				Gri	5/10/89			 Sa	lmon		
Mon			 lse	Number Salmo	of n	fish Unknown	 Tot	 al	Len	Gri	5/10/89 lse Wei	 ght	 Len	Sa		ght	Percen
Mor.		Gri Obs.	lse Est.	Number Salmon Obs. Es	of t.	fish Unknown Obs.	Tot: Obs.	 al Est.	Len No.	Gri Igth Mean	5/10/89 lse Wei No.	ght Mean	Len No.	Saj gth Mean	lmon Wei No.	ght Mean	Percen large salmo
Mor.		Gri Obs.	lse Est.	Number Salmon Obs. Es	of n t.	fish Unknown Obs.	Tot: Obs.	 al Est.	Len No.	Gri Igth Mean	5/10/89 lse Wei No.	ght Mean	Len No.	Saj gth Mean	lmon Wei No.	ght Mean	Percen large salmo 0.
Mor. No, 6 7 8	Name June July Aug	Grii Obs. 1 2 3	lse Est. 2	Number Salmon Obs. Es 0	of n t. 0	fish Unknown Obs. 0	Tot Obs. 2 3	al Est. 2	 Len No. 2 3	Gri Igth Mean 52.1 53.3	5/10/89 lse Wei No. 2 3	ght Mean 1.5 2.0	Len No. 0	Sai gth Mean 0.0 0.0	lmon Wei No. 0	ght Mean 0.0 0.0	Percen large salmo 0.
Mor. No. 6 7	th Name June July	Gri Obs. 1	lse Est. 2	Number Salmon Obs. Es	of n t.	fish Unknown Obs.	Tot. Obs.	al Est. 2	Len No. 2 3 6	Gri Igth Mean 52.1	5/10/89 lse Wei No. 2	ght Mean 1.5	Len No.	Sa gth Mean 0.0	lmon Wei No.	ght Mean 0.0	Percen large salmo 0. 0. 0.
Mon No. 6 7 8 9 10	Name June July Aug Sept	Gri Obs. 1 2 3 6 23	Lse Est. 2 4 7 28	Number Salmon Obs. Es 0 0 0	of n t. 0 0 0	fish Unknown Obs. 0 0 0 0	Tot. Obs. 2 3 6	al Est. 2 4 7 28	Len No. 2 3 6 21	Gri Mean 52.1 53.3 55.7	5/10/89 lse Wei No. 2 3 6 22	ght Mean 1.5 2.0 1.5 1.5	Len No. 0 0	Sa gth Mean 0.0 0.0 0.0 0.0	1mon Wei No. 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0	Percent
Mon No. 6 7 8 9 10	Name June July Aug Sept Oct	Gri Obs. 1 2 3 6 23	Lse Est. 2 4 7 28	Number Salmon Obs. Es 0 0 0 0 0	of n t. 0 0 0	fish Unknown Obs. 0 0 0 0	Tot. Obs. 2 3 6 23	al Est. 2 4 7 28	Len No. 2 3 6 21	Gri Mean 52.1 53.3 55.7 55.8	5/10/89 lse Wei No. 2 3 6 22	ght Mean 1.5 2.0 1.5 1.5	Len No. 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0	1mon Wei No. 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0	Percen large salmo 0. 0. 0.
Mon No. 6 7 8 9 10 River	Name June July Aug Sept Oct	Gri Obs. 1 2 3 6 23	Lse Est. 2 4 7 28 41	Number Salmon Obs. Es 0 0 0 0 0	of 	fish Unknown Obs. 0 0 0 0	Tot. Obs. 2 3 6 23 34	al Est. 2 4 7 28 41	Lerr No. 2 3 6 21 32	Gri Igth 52.1 53.3 55.7 55.8 55.3	5/10/89 lBe Wei No. 2 3 6 22 33	ght Mean 1.5 2.0 1.5 1.5 1.5	Len No. 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0	1mon Wei No. 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0	Percen large salmo 0. 0. 0.
Mon No. 6 7 8 9 10 River	Name June July Aug Sept Oct	Gri: Obs. 1 2 3 6 23 34	Lse 2 4 7 28 41 Ri	Number Salmor Obs. Es Obs. Es O O O O O O Ver code: Number	of n t. 0 0 0 0	fish Unknown Obs. 0 0 0 0 0 67 S fish	Tot. Obs. 2 3 6 23 34	al Est. 2 4 7 28 41 dates:	Lem No. 2 3 6 21 32 15/ 6/8	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 9 to 1 Gri	5/10/89 lse Wei No. 2 3 6 22 33 5/10/89 lse	ght Mean 1.5 2.0 1.5 1.5 1.5	Len No. 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0 0.0 0.0 5a	1mon Wei No. 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0	Percen large salmoi 0. 0. 0. 0. 0. 0. Percen
Mon No. 6 7 8 9 10 River	Name June July Aug Sept Oct total;	Gri: Obs. 1 2 3 6 23 34 	Lse Est. 2 4 7 28 41 Ri Ri	Number Salmor Obs. Es 0 0 0 0 0 0 ver code: Number Salmor	of n t. 0 0 0 0 0 0 0	fish Unknown Obs. 0 0 0 0 0 67 S fish Unknown	Tot. Obs. 2 3 6 23 34 	al Est. 2 4 7 28 41 dates: al	Lem No. 2 3 6 21 32 15/ 6/8	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 9 to 1 Gri gth	5/10/89 1Be Wei No. 2 3 6 22 33 5/10/89 1Be Wei	ght Mean 1.5 2.0 1.5 1.5 1.5	Len No. 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0 0.0 5a gth	Imon Wei No. 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0	Percen large salmoi 0. 0. 0. 0. 0. 0. Percen
Mon No. 6 7 8 9 10 River Kira Mon	th Name June July Aug Sept Oct total; total; Name	Gri: Obs. 1 2 3 6 23 34 	Lse Est. 2 4 7 28 41 Ri Ri	Number Salmor Obs. Es 0 0 0 0 0 0 0 0 0 0 ver code: Number Salmor	of n t. 0 0 0 0 0 0 0	fish Unknown Obs. 0 0 0 0 0 67 S fish Unknown	Tot. Obs. 2 3 6 23 34 Reason Tot	al Est. 2 4 7 28 41 dates: al	Lem No. 2 3 6 21 32 15/ 6/8	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 9 to 1 Gri gth	5/10/89 lBe Wei No. 2 3 6 22 33 5/10/89 lBe Wei	ght Mean 1.5 2.0 1.5 1.5 1.5	Len	Sa gth Mean 0.0 0.0 0.0 0.0 0.0 0.0 5a gth	Imon Wei No. 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0 0.0	Percen large salmo 0. 0. 0. 0. 0. 0. Percen large
Mon No. 6 7 8 9 10 River Mira Mon No.	th Name June July Aug Sept Oct total; total; Name June	Grii Obs. 1 2 3 6 23 34 Gri Cbs. 1	Lse Est. 2 4 7 28 41 Ri Ri Lse Est.	Number Salmor Obs. Es 0 0 0 0 0 0 ver code: Number Salmor Obs. Es	of 	fish Unknown Obs. 0 0 0 0 0 67 5 fish Unknown Obs.	Tot. Obs. 2 3 6 23 34 	al Est. 2 4 7 28 41 dates: al Est.	Lem No. 2 3 6 21 32 15/ 6/8 Lem No.	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 	5/10/89 1Be Wei No. 2 3 6 22 33 5/10/89 1Be Wei No.	ght Mean 1.5 2.0 1.5 1.5 1.5	Len No. 0 0 0 0 0 0	Sa gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Imon Wei 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Percen large salmo 0. 0. 0. 0. 0. 0. 0. Percen large salmo
Mon No. 6 7 8 9 10 River Mira No.	th Name June July Aug Sept Oct total; total; th Name July Aug	Gri: Obs. 1 2 3 6 23 34 	LBE 2 4 7 28 41 Ri LBE Est. 2	Number Salmor Obs. Es Obs. Es O Obs. Es Number Salmor Obs. Es	of 	fish Unknown Obs. 0 0 0 0 0 0 0 67 S fish Unknown Obs.	Tot. Obs. 2 3 6 23 34 eason Tot Obs.	al Est. 2 4 7 28 41 dates: al Est.	Len No. 2 3 6 21 32 15/ 6/8 	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 9 to 1 Gri gth Mean 63.0 48.3	5/10/89 15e Wei No. 2 3 6 22 33 5/10/89 15e Wei No. 2 4	ght Mean 1.5 2.0 1.5 1.5 1.5 1.5	Len No. 0 0 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0 0.0 5a gth Mean 0.0	1mon Wei No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 ght Mean	Percen large salmo 0. 0. 0. 0. 0. 0. Percen large
Mon No. 6 7 8 9 10 River Mira Mon 6 7 8 9 9	th Name June July Aug Sept Oct total; total; th Name June June Juny Aug Sept	Gri: Obs. 1 2 3 6 23 34 Gri: Cbs. 1 2 4 3	Lse Est. 2 4 7 28 41 Ri Lse Est. 2 5 4	Number Salmor Obs. Es 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of n t. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	fish Unknown Obs. 0 0 0 0 0 0 0 67 S fish Unknown Obs.	Tot. Obs. 2 3 6 23 34 eason Tot Obs.	al Est. 2 4 7 28 41 dates: al Est.	Lem No. 2 3 6 21 32 15/ 6/8 Lem No.	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 Gri gth Mean 63.0 48.3 53.3	5/10/89 1Be Wei No. 2 3 6 22 33 5/10/89 1Be Wei No. 2 4 3 3 5/10/89 1Be	ght Mean 1.5 2.0 1.5 1.5 1.5 1.5	Len No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0 0.0 5a gth Mean 0.0	1mon Wei No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 ght Mean	Percen large salmo 0. 0. 0. 0. 0. Percen large salmo 0. 0. 0.
Mon No. 7 8 9 10 River Mira No. 6 7 8	th Name June July Aug Sept Oct total; total; th Name July Aug	Grii Obs. 1 2 3 6 23 34 Grii Obs. 1 0bs. 1 2 4	Lse Est. 2 4 7 28 41 Ri Lse Est. 2 5 4	Number Salmor Obs. Es 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of 	fish Unknown Obs. 0 0 0 0 0 0 0 67 S fish Unknown Obs.	Tot. Obs. 2 3 6 23 34 	al Est. 2 4 7 28 41 dates: al Est.	Lem No. 2 3 6 21 32 15/ 6/8 Lem No.	Gri gth Mean 52.1 53.3 55.7 55.8 55.3 9 to 1 Gri gth Mean 63.0 48.3	5/10/89 1Be Wei No. 2 3 6 22 33 5/10/89 1Be Wei No. 2 4 3 3 5/10/89 1Be	ght Mean 1.5 2.0 1.5 1.5 1.5 1.5	Len No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sa gth Mean 0.0 0.0 0.0 0.0 0.0 5a gth Mean 0.0	1mon Wei No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 ght Mean	Percer large salmo 0. 0. 0. 0. 0. 0. Percer large salmo 0. 0.

				Num	per of	fish				Gri	lse			Sa	lmon		Percent
Mon	th	Gr	ilse	Sa	lmon	Unknown	То	tal	Len	gth	Wei	ght	Len	gth	Wei	ght	large
No.	Name	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	NO.	Mean	No.	Mean	salmon
6 7 8	June July Aug	19 104 27	23 126 33	0 0 0	0 0 0	0	19 104 27	23 126 33	18 96 27	54.6 55.1 55.5	19 99 24	1.6 1.7 1.8	0 0 0	0.0 0.0 0.0	0 0 0	0.0 0.0 0.0	0.0 0.0 0.0
River	total:	150	181	0	0	0	150	181	141	55.1	142	1.7	0	0.0	0	0.0	0.0

				Numb	er of	fish				Gri					lmon		Percen
Mor	nth			Sal	mon		n To	tal	Ler		Wei	ght				lght	large
	Name	Obs. 1		Obs.	Est.		Obs.	Est.	No.	Mean	No.		No.	Mean	No.		salmo
5	May																
	June July		15	0	000		12	15	12	56.2 57.0		1.7	0			0.0	0. 0.
8	Aug	-	2					2		52.1		1.6		0.0		0.0	0.
River	total:	25	30	0	0	0	25	30		56.3		1.7	0	0.0	0	0.0	0.
	odoboit																
				Numb	er of	fish				Gri	lse			Sa	lmon		
Mor	nth		lse	Sal	mon		n To	tal	Ler		Wei	ght	Ler	igt h		ght	large
No.	Name	Obs.	Est.			Obs.		Est.	No.	Mean		Mean	No.	Mean	No.	Mean	salmo
6									84	56.5	 91	1.8	0	0.0	0	0.0	0.
7 8	June July Aug	97 5	117 6	0 0	0	0	97 5	117 6	77 5	56.5 53.3	94 5	1.8 1.8 1.7	0 0	0.0 0.0	0 0	0.0	0. 0. 0.
	total:								166								0.
See	e variati	on orde	r.														
lew Ha	arbour		Ri	ver cod	e:	73	Season	datesı	1/ 6/8	39 to 2	9/ 8/89).					
															lmon		
Mor	hth			Sal				tal		ngth		.ght			Wei		large
NO.	Name							Est.									salmo
6	June				~			5		55.2		1.7		0.0		0.0	0.
	July Aug						19 3		18	53.0 56.3	19	1.5	0 0	0.0	-	0.0	0. 0.
River	total:	26	31	0	0	0	26	31	25	53.8	26	1.6	0	0.0	0	0.0	ο.
North	: Colch	ester	Ri	ver cod	e:				15/ 8/8								
				Numb		fish				Gri					lmon		Percen
	ith	Gri		Sal	mon		n To	tal	Ler	ngth	Wei	ght	Len		Wei		large
No.	Name	Obs. I	Est.	Obs.	Est.	Obs.	Obs.	Est.		Mean	No.	Mean	No.	Mean	No.	Mean	salmo
8	Aug																
9 10	Sept Oct	106	128	0	0	0	106	128	99	56.1	100	1.6	0	0.0	0	0.0	0.
River	total:	106	128	0	0	0	106	128	99	56.1	100	1.6	0	0.0	0	0.0	0.0
See	variati	on orde	r.														
lorth	1 Victo	ria Co															
				Numb	er of	fish				Gri	lse			Sa	lmon		Percen
Mon	ith	Gri	lse	Sala	mon	Unknow	n To	tal	Ler	ngth	Wei	ght	Len	ngth	Wei	ght	large
No.	Name	Obs. I	Est.	Obs.	Est.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	ваlmo
6	June	9	11	Ő	0	0	9	11		56.9		1.5	0	0.0	Q	0.0	<u>0</u> .
8	Aug	_4	63 5	0 0	0	0	52 4	63 5	40 2	54.7 54.6	52 3	1.4	0	0.0	0 0	0.0	0. 0.
9 10	June July Aug Sept Oct	23 13	28 16	0 0	0 0	0	23 13	28 16	22 12	55.0 57.4	18 11	1.6 1.9	0 0	0.0 0.0	0 0	0.0 0.0	0. 0.
River	total:	101	122	0	0	0	101	122	81								

61

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f	32	
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6 Jun 7 Jul 9 Aug 9 Sep 10 Oct River to Petite Ri- No. Nan 6 Jun 7 Ju 8 Aug River to See val 2000 2000 2000 2000 2000 2000 2000 20	ame une uly ug ept ct iviere ame une uly ug otal: ariation	Grili Obs. Ex 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 5 8 8 7 8 77 171 8 8 93 77	Obs. Ea 0 0 /er code: Number Obs. Ea 0 0 0 0 ver code:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 000 000 000 000 000 000 000 000 0	Tot Obs. 4 4 5eason Tot Obs. 77 64 141 Season	al Est. 5 5 dates: al Est. 93 77 171	Ler No. 4 15/ 6/8 	Mean 54.0 54.0 19 to 1 Gri Mean 55.1 54.1	Wei No. 2 2 2 5/ 8/89 18e Wei No. 72 59	1.7 1.7 ght Mean 1.8 1.7	Len No. 0 0	gth Mean 0.0 0.0 Sa gth Mean 0.0 0.0	0 0 1mon <u>Wei</u> No. 0 0	ght Mean 0.0 0.0 ght Mean 0.0 0.0 0.0	large salmon 0. 0. Percen large salmon 0. 0.
6 Juu 7 Jui 8 Aug 9 Sej 10 Oct River to Petite Ri Petite Ri Month No. Nau 6 Juu 7 Ju 8 Aug River to See va See va 9 Sej 10 Oct	une uly uly ept ct iviere ame uly ug otal: 	4 4 Grili Obs. E 77 64 141 n order Grili	5 5 8 9 93 77 171	Obs. Ee 0 0 ver code: Number Salmc Obs. Ee 0 0 0 0 ver code: Number	0 0 0 0 0 0 0 0 0 0 0 0 0	0bs. 0 60 5 fish Unknown 0bs. 0 0 0 0 0	4 4 5eason Tot Obs. 77 64 141 5eason	5 5 dates: al Est. 93 77 171	No. 4 15/ 6/6 Ler No. 76 63	Mean 54.0 54.0 99 to 1 Gri Ogth Mean 55.1 54.1	No. 2 2 5/ 8/85 18e Wei No. 72 59	Mean 1.7 1.7 . * ght Mean 1.8 1.7	No . 0 0 	Mean 0.0 0.0 Sa gth Mean 0.0 0.0	No. 0 0 1mon Wei No. 0 0	Mean 0.0 0.0 ght Mean 0.0 0.0	0. 0. Percen large salmo 0. 0.
7 Jul 8 Aug 9 Sep 10 Oct River too Cetite River too 6 Juu 7 Ju 8 Aug River too See val Comquet Month No. Nar 9 Sep 10 Oct	uly ug ept ct iviere 	4 Grili Obs. E 77 64 141 n order Grili	5 5 Riv 93 77 171 Riv	0 0 ver code: Number Obs. Es 0 0 0 0 ver code: Number	0 0 	0 0 fish Unknown Obs. 0 0 0 0 0	4 4 	5 5 al Est. 93 77 171	4 4 15/ 6/6 Ler No. 76 63	54.0 54.0 9 to 1 Gri Mean 55.1 54.1	2 2 5/ 8/85 18e Wei No. 72 59	1.7 1.7 . • ght Mean 1.8 1.7	0 	0.0 Sa gth Mean 0.0 0.0	0 lmon <u>Wei</u> No. 0 0	0.0 ght Mean 0.0 0.0	0. Percen large salmo 0. 0.
River to Petite River Month No. Nau 6 Juu 7 Ju 8 Aug River to See va See va 2000 Month No. Nau 9 Sej 10 Oct	otal: iviere ame une uly ug otal: ariation	4 Grili Obs. E 77 64 141 n order Grili	5 Riv se se 93 77 171	0 Ver code i Number Salmc Obs. Es 0 0 0 0 0 ver code i	0 of of 0 0 0 0 0 0 0 0 0 0 0 0 0	0 60 s fish Unknown Obs. 0 0 0	4 Season (Tot Obs. 77 64 141 Season (5 dates: al Est. 93 77 171	4 15/ 6/6 Ler No. 76 63	54.0 19 to 1 Gri ngth Mean 55.1 54.1	2 5/ 8/89 18e Wei No. 72 59	1.7 	0 	0.0 Sa gth Mean 0.0 0.0	0 lmon <u>Wei</u> No. 0 0	0.0 ght Mean 0.0 0.0	0. Percen large salmo 0. 0.
Month No. Nai 6 Juu 7 Ju 8 Au River to See va: Comquet Month No. Nai 9 Sej 10 Oct	iviere ame une uly ug otal: ariatio	Gril Obs. E 77 64 141 n order Gril	Riv se 93 77 171	ver code: Number Salmo Obs. Es O 0 0 0 0 0 ver code: Number	of on o o o o o	80 s fish Unknown Obs. 0 0 0	Tot Obs. 77 64 141 Season	dates; al Est. 93 77 171	15/ 6/6 Ler No. 76 63	9 to 1 Gri ngth Mean 55.1 54.1	5/ 8/85 lse Wei No. 72 59	ght Mean 1.8 1.7	Len No. 0 0	Sa gth Mean 0.0 0.0	lmon Wei No. 0 0	ght Mean 0.0 0.0	Percen large salmo 0. 0.
Month No. Nau 6 Juu 7 Ju 8 Aug River to See va 200 200 200 200 200 200 200 200 200 20	ame une uly uly otal: ariation	Gril Obs. E 77 64 141 n order Gril	se 93 77 171	Number Salmc Obs. Es 0 0 0 0 ver code: Number	of on o o 0 0	fish Unknown Obs. 0 0 0	Tot Obs. 77 64 141 Season	al Est. 93 77 171	Ler No. 76 63	Gri Mean 55.1 54.1	Wei No. 72 59	ght Mean 1.8 1.7	Len No. 0 0	Sa gth Mean 0.0 0.0	1mon Wei No. 0 0	ght Mean 0.0 0.0	Percen large salmo 0. 0.
Month No. Nau 6 Juu 7 Ju 8 Aug River to See val Comquet Month No. Nau 9 Sej 10 Oct	ame une uly ug otal: ariatio	Gril Obs. E 77 64 141 n order Gril	se 93 77 171 Riv	Number Salmo Obs. Ea 0 0 0 0 ver code: Number	of on ot. 0 0 0	fish Unknown Obs. 0 0 0	Tot Obs. 77 64 141 Season	al Est. 93 77 171	Ler No. 76 63	Gri ngth Mean 55.1 54.1	lве Wei No. 72 59	ght Mean 1.8 1.7	Len No. 0 0	Sa gth Mean 0.0 0.0	1mon Wei No. 0 0	ght Mean 0.0 0.0	Percen large salmo 0. 0.
No. Nai 6 Jui 7 Ju 8 Aug River to See va Comquet Month No. Nai 9 Sej 10 Oct	ame une uly ug otal: ariation	Grili Obs. E 77 64 141 n order Gril	se st. 93 77 171	Salmc Obs. Ee 0 0 0 0 ver code: Number	0 0 0	Unknown Obs. 0 0 0	Tot Obs. 77 64 141 Season	al Est. 93 77 171	Ler No. 76 63	Mean 55.1 54.1	Wei No. 72 59	ght Mean 1.8 1.7	Len No. 0 0	gth Mean 0.0 0.0	Wei No. 0 0	ght Mean 0.0 0.0	salmo 0. 0.
No. Nau 6 Juu 7 Ju 8 Aug River to See va comquet Month No. Nau 9 Sep 10 Oct	ame une uly ug otal: ariatio	Obs. E 77 64 141 n order Gril	93 77 171	Obs. Ee 0 0 0 ver code: Number	0 0 0	Obs. 0 0 0	Obs. 77 64 141 Season	Est. 93 77 171	No. 76 63	Mean 55.1 54.1	No. 72 59	Mean 1.8 1.7	No. 0 0	Mean 0.0 0.0	No. 0 0	Mean 0.0 0.0	0. 0.
6 Jun 7 Ju 8 Aug River to See va Comquet Month No. Nar 9 Sep 10 Oct	uly otal: ariatio	64 141 n order Grili	77 171	0 0 ver code : Number	0 0	0 0 91 \$	64 141 Geason	77 171	63	54.1	59	1.7	Ō	0.0	Ō	0.0	0. 0.
See va Nomquet Month No. Nar 9 Sep 10 Oct	ariatio	n order Gril	Riv	ver code: Number	of	91 \$	Season		139	54.6	131	1.8	0	0.0	0	0.0	0.
Month No. Nar 9 Sep 10 Oct		Grila	Riv Be	Number	of			dates:									
No. Nar 9 Sej 10 Oct		Gril	se		of of												
No. Nar 9 Sej 10 Oct		Gril	se							Gri				Sa			Percen
No. Nar 9 Sej 10 Oct				Salmo	n	Unknown	Tot	al	Ler	ngth	Wei	ght	Len		Wei	ght	large
10 Oc		Obs. E		Obs. Es		Obs.	Obs.			Mean	No.		No.	Mean	No.		salmo
River to	ept ct	1	1	0	0	0	1	1	1	53.3	1	1.8	0	0.0	0	0.0	0.
	otal:	1	1	0	0	0	1	1	1	53.3	1	1.8	0	0.0	0	0.0	0.
ort Duff				ver code:					1/ 6/8								
				Number	of	fish				Gri	lse			Sa	1mon		Percen
Month				Salmo		Unknown		al		ngth	Wei	ght		gth	Wei	ght	large
No. Nai		Obs. E	вt.	Obs. Es	st.	Obs.	Obs.		No.	Mean	No.	Mean	NO.	Mean	No.	Mean	salmo
6 Ju 7 Ju 8 Au	uly	3 1	4 1	0	0	0	3 1	4 1	3 1		3 1	1.4 1.4	0	0.0	0	0.0	0. 0.
River to	otal:	4	5	0	0	0	4	5	4	52.1	4	1.4	0	0.0	0	0.0	0.
Portapiqu	ue		RÍN	ver code:		82	Season	dates:	15/ 8/8	39 to 3	1/10/89	• •					
				Number							 1ве				lmon		Percen
Month		Gril		Salmo							Wei		Len	gth	 Wei	ght	large
No. Na	ame	Obs. E	вt.	Obs. Es	at.	Obs.	Obs.	Est.	NO.	Mean	No.	Mean	NO.	Mean	No.	Mean	salmo
8 Au 9 Sej	υα																
9 Sej 10 Oct River to															0		

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				Number	of	fish				Gri	lse			Sa	lmon		Percent
Mon	th	Gril	68	Salmo	on 1	Unknown	Tota	1	Len		Wei		Len	igth	Wej		1arge
No.	Name	Obs. E	st.	Obs. Es	at.	Obs.	Obs. E	st.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
6 7 8	June July Aug	1		0	0	0	1			58.4		0.0	0	0.0	0	0.0	0.
River	total:	1	1	0	0	0	1	1	1	58.4	0	0.0	0	0.0	0	0.0	0.
River	Hebert		Riv	/er code:		86 5	eason d	atesi	15/ 8/8	19 to 3	1/10/89						
				Number						Gri					lmon		
Mon	th			Salmo									Len	ath		aht .	large
											NO.		~				salmo
8 9	Aug Sept		15	0 0 0	0	0	12 27	15		53.7	12	1.6		0.0	0	0.0	0.
10							-										
	total:			0				80		55.3		1.7		0.0		0.0	0.
see	variatio	on order															
liver				ver code:													
		Number of fish								Gri	lse				lmon		
	th	Grilse		Salmon Unk		Unknown	m Total		Length				Len	ngth	Weight		large
No.	Name	Obs. E	st.	Obs. Es	st.	Obs.	Obs. E	at.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
9 10	Sept	14	17	0	0	0	14	17		55.2		1.7		0.0		0.0	0.
River	total:	14	17	0	0	0	14	17	13	55.2	12	1.7	0	0.0	0	0.0	0.
iver	Philip		Riv	ver code:		88 S	eason d	atesi	1/ 9/8	19 to 3	1/10/89	•					
				Number	of	fish				Gri	lse			Sa	lmon		
	th	Gril	se	Salmo	ו מכ	Unknown	Tota	1	Ler	gth	Wei	ght		ngth	Wei	ght	large
No,	Name			Obs. Es										Mean		Mean	
9 10	Sept Oct	5 73	6 88	0 0	0 0	0 0	5 73		4 61	58.1 56.6		1.2 1.7	0 0			0.0	
River	total:	78	94	0	0	0	78	94	65	56.7	67	1.7	0	0.0	0	0.0	0.
iver	Tillard		Riv	ver code:	. 4	99 s	eason d	ates:	15/ 6/8	9 to 1	5/10/89						
				Number						Gri	 1ве			Sa	lmon		Percen
Mon	th	Gril	se	Salmo		Unknown	Tota		Ler	igth	 Wei	ght		igth		.ght	large
	Name	Obs. E		Obs. Es		Оbs.	Obs. E		No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmo
No.	June July	2	2	0	0	0	2	2	····· 2	54.0	2	2.0	0	0.0	-	0.0	
6 7	1	2	2	0	0	0 0	2	2	2	57.7	1	2.3	0	0.0	0	0.0	o.
6 7 8	Aug Sept		~			ŏ	3	4	3	56.3	ō	0.0	ŏ	0.0	ŏ	0.0	0.
6 7	Aug Sept Oct	3	4	0	0	v		-								0.0	•••

s

	Run Port					90 S					9/ 8/89						
				Numbe		fish									lmon		Percen
Mon	th	Gril		Salm		Unknown		al		gth	Wei		Len	gth		ght	large
No.	Name	Obs. E		Obs. E		Obs.			No.				No,			Mean	salmo
6 7 8	June July Aug	1	1	0	0	0	1	1	0	0.0	1	1.4	0	0.0	0	0.0	0.
River	total:	1	1	0	0	0	1	1	0	0.0	1	1.4	0	0.0	0	0.0	0.
Sackvi	lle		Ri	ver code		131 S			10/ 5/8								
				Numbe	r of	fish				Gri	lse			Sa	lmon		Percen
	th	Gril	8e	Salm	on	Unknown	Tota	al	Ler	gth		ght	Len	gth	Wei	ght	large
No.	Name	Obs. E		Obs. E		Obs.	Obs. I			Mean	No.		No.	Mean	No.	Mean	salmo
5	Мау		~														
6 7	June July	13 13	16 16	0	0	0	13 13	16 16		55.7 56.9	11 13	1.6 1.8	0	0.0	0	0.0	0. 0.
8	Aug	5	6	ŏ	Ő		5	6		53.3	5	1.5	ŏ	0.0	ŏ	0.0	ů.
River	total:	31	38	0	0	0	31	38	28	56.1	29	1.7	0	0.0	0	0.0	0.
Saint	Croix		Ri	ver code	:				15/ 8/8								
						fish				Gri	lse			Sa	lmon		Percen
Mon	th	Gril		Salm	-	Unknown Total			Length Weight				gth	 Wei	ght	large	
 No .	Name	Obs. E		Obs. E		Орв.											salmo
 9	Aug			 0				2		54 0		1 3	<u>م</u>	0 0	 ۸		
8	Aug Sept	2 6	2 7	0 0	0	0	2 6	2 7	6	54.0 55.5		1.3 1.5	0 0		0	0.0	0.
9 10	Sept Oct	6 15	7 18	0	0 0	0 0	6 15	7 18	6 14	55.5 58.3	6 13	1.5 1.8	0	0.0 0.0	0	0.0	0. 0.
9 10	Sept	6	7	0	0	0 0	6	7	6 14	55.5	6 13	1.5 1.8	Ō	0.0 0.0	Ō	0.0	0. 0.
9 10 River	Sept Oct	6 15	7 18 28 Riv	0 0 ver code	0 0 	0 0 96 S	6 15 23 	7 18 28 	6 14 22 	55.5 58.3 57.1 9 to 1	6 13 21 5/ 9/89	1.5 1.8 1.6	0	0.0 0.0	0	0.0 0.0	0. 0. 0.
9 10 River	Sept Oct total:	6 15	7 18 28 	0 0 ver code Numbe	0 0 : r of	0 0 	6 15 23 Сеавоп с	7 18 28 Jates:	6 14 22 18/ 5/8	55.5 58.3 57.1 9 to 1 Gri	6 13 21 5/ 9/89	1.5 1.8 1.6	0	0.0 0.0 0.0 	0	0.0 0.0	0. 0. 0.
9 10 River	Sept Oct total: Mary's	6 15	7 18 28 Ri	0 0 ver code Numbe Salm	0 0 r of on	0 0 96 S fish Unknown	6 15 23 Season of Tota	7 18 28 dates: 	6 14 22 18/ 5/8 Ler	55.5 58.3 57.1 9 to 1 Gri	6 13 21 5/ 9/89 18e	1.5 1.8 1.6	0 0 Len	0.0 0.0 Sa gth	0 0 1mon	0.0	0. 0. Percen
9 10 River Saint	Sept Oct total: Mary's	6 15 23	7 18 28 Ri 8 Se	0 0 ver code Numbe	0 0 : r of on	0 0 96 S fish	6 15 23 Сеавоп с Тоtа	7 18 28 dates: a1	6 14 22 18/ 5/8 Ler	55.5 58.3 57.1 9 to 1 Gri	6 13 21 5/ 9/89 18e Wei	1.5 1.8 1.6	0	0.0 0.0 .0 Sa gth	0 0 	0.0 0.0	0. 0. Percen large
9 10 River Saint Mon No.	Sept Oct total: Mary's th Name May	6 15 23 Gri1 Obs. E	7 18 28 Ri Se Se	0 0 ver code Numbe Salm Obs. E	0 0 r of st.	0 0 96 S fish Unknown Obs.	6 15 23 Season o Tota Obs. 1	7 18 28 dates: Est.	6 14 22 18/5/8 Ler 	55.5 58.3 57.1 9 to 1 Gri gth Mean	6 13 21 5/ 9/89 18e Wei No.	1.5 1.8 1.6 . * . ght . Mean	0 0 0 Len No.	0.0 0.0 Sa gth Mean	0 0 0 1mon Wei No.	0.0 0.0 0.0 	Percen large salmo
9 10 River Saint Mon No.	Sept Oct total: Mary's th Name June	6 15 23 Gri1 Obs. E 96	7 18 28 Ri 8 Se	0 0 ver code Numbe Salm	0 0 : r of on	0 0 96 S fish Unknown Obs.	6 15 23 Ceason of Tota	7 18 28 dates: a1	6 14 22 18/ 5/8 Ler No.	55.5 58.3 57.1 9 to 1 Gri	6 13 21 5/ 9/89 18e Wei	1.5 1.8 1.6	0 0 Len	0.0 0.0 .0 Sa gth	0 0 0 1mon Wei	0.0 0.0	0. 0. Percen large
9 10 River Saint Mon No. 5 6 7 8	Sept Oct total: Mary's th Name June June July Aug	6 15 23 Gri1 Obs. E 96 330 41	7 18 28 Ri se se set. 116 399 50	0 0 ver code Numbe Salm Obs. E 0 0 0	0 0 r of on st. 0 0 0 0	0 0 96 S fish Unknown Obs. 0 0 0	6 15 23 	7 18 28 dates: a1 Est. 116 399 50	6 14 22 18/5/6 Ler No. 74 240 37	55.5 58.3 57.1 9 to 1 Grii gth Mean 56.9 56.1 55.6	6 13 21 5/9/89 18e Wei No. 87 299 39	1.5 1.8 1.6 	0 0 0 Len No. 0 0 0	0.0 0.0 	0 0 0 1mon Wei No.	0.0 0.0 .0 .0 .0 .0 .0 0.0 0.0	0. 0. Percer large øalmc 0. 0.
9 10 River Saint Mon No. 5 6 7 8 9	Sept Oct total: Mary's Th Name June June July Aug Sept	6 15 23 Gri1 Obs. E 96 330 41 8	7 18 28 Riv Se Se Se Se Se 116 399 50 10	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0	0 0 r of st. 0 0 0 0 0	0 0 96 S fish Unknown Obs. 0 0 0 0	6 15 23 Reason of Tota Obs. 1 0bs. 1 96 330 41 8	7 18 28 dates: a1 Est. 116 399 50 10	6 14 22 18/ 5/8 Ler No. 74 240 37 8	55.5 58.3 57.1 9 to 1 Gri 	6 13 21 5/ 9/89 18e Wei No. 87 299 39 7	1.5 1.8 1.6 . * . ght 	0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 	0 0 0 1mon Wei No. 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0	0. 0. Percer large @almc 0. 0. 0.
9 Niver Saint Mon No. 5 6 7 8 9 River	Sept Oct total: Mary's Name June June July Aug Sept total:	6 15 23 Gri1 Obs. E 96 330 41 8 475	7 18 28 Ri Se Se Se Se Se Se Se Se Se Se Se Se Se	0 0 ver code Numbe Salm Obs. E 0 0 0	0 0 r of on st. 0 0 0 0	0 0 96 S fish Unknown Obs. 0 0 0	6 15 23 	7 18 28 dates: a1 Est. 116 399 50	6 14 22 18/ 5/8 Ler No. 74 240 37 8	55.5 58.3 57.1 9 to 1 Grii gth Mean 56.9 56.1 55.6	6 13 21 5/9/89 18e Wei No. 87 299 39	1.5 1.8 1.6 	0 0 0 Len No. 0 0 0	0.0 0.0 	0 0 0 1mon Wei No.	0.0 0.0 .0 .0 .0 .0 .0 0.0 0.0	0. 0. Percer large @almc 0. 0. 0.
9 Niver Saint Mon No. 5 6 7 8 9 River	Sept Oct total: Mary's Th Name June June July Aug Sept	6 15 23 Gri1 Obs. E 96 330 41 8 475	7 18 28 Ri Se Se Se Se Se Se Se Se Se Se Se Se Se	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0	0 0 r of st. 0 0 0 0 0	0 0 96 S fish Unknown Obs. 0 0 0 0	6 15 23 Reason of Tota Obs. 1 0bs. 1 96 330 41 8	7 18 28 dates: a1 Est. 116 399 50 10	6 14 22 18/ 5/8 Ler No. 74 240 37 8	55.5 58.3 57.1 9 to 1 Gri 	6 13 21 5/ 9/89 18e Wei No. 87 299 39 7	1.5 1.8 1.6 . * . ght 	0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 	0 0 0 1mon Wei No. 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0	0. 0. Percen large øalmo
9 10 River Saint Mon No. 5 6 7 8 9 River * See Salmon	Sept Oct total: Mary's th Name June June July Aug Sept total: variatio : Cape B	6 15 23 Gri1 Obs. E 96 330 41 8 475 con order	7 18 28 Riv Se Se Se Se Se So 10 575 75 7	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 	0 0 96 S fish Unknown Obs. 0 0 0 0 0 0 0 0	6 15 23 	7 18 28 dates: Est. Est. 116 399 50 10 575 	6 14 22 18/5/6 Ler No. 74 240 37 8 359 15/6/8	55.5 58.3 57.1 9 to 1 Gri: Mean 56.9 56.1 55.6 56.5 56.2 9 to 1	6 13 21 5/9/89 18e Wei No. 87 299 39 7 432 5/10/89	1.5 1.8 1.6 . • . • . • . • . • . • . • . • . • . •	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 	0 0 0 1mon Wei No.	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0	0. 0. Percer large øalmc 0. 0. 0. 0.
9 10 River Saint Mon No. 5 6 7 8 9 River * See Salmon	Sept Oct total: Mary's Th Name May June July Aug Sept total: variatio	6 15 23 Gri1 Obs. E 96 330 41 8 475 on order reton	7 18 28 Riv Se Se Se Se So 10 575 7	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 r of st. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 96 S fish Unknown Obs. 0 0 0 0 0 0 0 0 5 7 S fish	6 15 23 	7 18 28 28 dates: a1 Est. 116 399 50 10 575 dates:	6 14 22 18/ 5/8 	55.5 58.3 57.1 9 to 1 Gri gth Mean 56.9 56.1 55.6 56.5 56.2 9 to 1 Gri	6 13 21 5/9/89 18e Wei No. 87 299 39 7 432 5/10/89 18e	1.5 1.8 1.6	0 0 0 Len No. 0 0 0 0 0	0.0 0.0 	0 0 0 1mon <u>wei</u> No. 0 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 0.0	0. Percen large Balmo 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
9 10 River Saint Mon No. 5 6 7 8 9 River * See Salmon Mon	Sept Oct total: Mary's th Name June June Juny Aug Sept total: variation : Cape B	6 15 23 Gri1 Obs. E 96 330 41 8 475 on order reton Gri1	7 18 28 Riv Se 2st. 116 399 50 10 575	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 r of st. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 96 S fish Unknown 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 15 23 	7 18 28 28 dates: a1 Est. 116 399 50 10 575 dates:	6 14 22 18/ 5/8 Ler No. 74 240 37 8 359 15/ 6/8	55.5 58.3 57.1 9 to 1 gth Mean 56.9 56.1 55.6 56.5 56.2 9 to 1 Gri gth	6 13 21 5/9/89 18e Wei No. 87 299 39 7 432 5/10/89 18e Wei	1.5 1.8 1.6	0 0 0 	0.0 0.0 gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0 0 1mon 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 0.0	0. 0. Percer large øalmo 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
9 10 River Saint Mon No. 5 6 7 8 9 River * See Salmon Mon No.	Sept Oct total: Mary's Th Name June June July Aug Sept total: variatio : Cape B 	6 15 23 Gri1 	7 18 28 Ri 8e 56 50 10 575 7 Ri 8e 575	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 r of st. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 96 S fish Unknown Obs. 0 0 0 0 0 0 0 97 S fish	6 15 23 	7 18 28 28 dates: a1 Est. 	6 14 22 18/ 5/8 Ler No. 74 240 37 8 359 15/ 6/6 Ler No.	55.5 58.3 57.1 9 to 1 Gri 56.9 56.1 55.6 56.5 56.2 Gri gth 	6 13 21 5/9/89 18e Wei No. 5/10/89 18e Wei No.	1.5 1.8 1.6	0 0 0 No. 0 0 0 0 0 0 0 0	0.0 0.0 gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0. 0. Percer large øalmo 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
9 10 River Saint Mon No. 5 6 7 8 9 River * See Salmon Mon No. 6 7	Sept Oct total: Mary's th Name July Aug Sept total: variatio : Cape B 	6 15 23 Gri1 Obs. E 96 330 41 8 475 on order reton Gri1 Obs. E	7 18 28 Ri Se Se Se Se Se So 10 575 7 Ri Se So 10 575 7	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 r of st. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 96 S fish Unknown 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 15 23 	7 18 28 1ates: a1 Est. 116 399 50 10 575 3ates: ates: Est.	6 14 22 18/ 5/8 	55.5 58.3 57.1 9 to 1 Gri gth Mean 56.9 56.1 55.6 56.5 56.2 9 to 1 Gri gth Gri Mean	6 13 21 5/9/89 18e Wei No. 87 299 39 7 432 5/10/89 18e Wei -No.	1.5 1.8 1.6	0 0 0 No. 0 0 0 0 0 0 0 0 0 0	0.0 0.0 gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0 0 1mon Wei No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0. 0. Percer large ealmo 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
9 10 River Saint Mon No. 5 6 7 8 9 River * See Salmon Mon No. 6 7 8 9 10	Sept Oct total: Mary's Name June July Aug Sept total: variation : Cape B. th Name July Aug Sept total: 	6 15 23 Gri1 Obs. E 96 330 41 8 475 on order reton Gri1 Obs. E 1 5	7 18 28 Ri Se Se Se Se Se So 10 575 7 Ri Ri Se So 10 575 7 10 575 10 575 10 575 10 575 10 575 10 575 10 575 10 50 10 575 10 10 575 10 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 ver code Numbe Salm Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 r of st. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 96 S fish Unknown 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 15 23 	7 18 28 dates: 	6 14 22 18/ 5/8 Ler No. 74 240 37 8 359 15/ 6/8 Ler No.	55.5 58.3 57.1 9 to 1 Gri 56.9 56.1 55.6 56.5 56.2 9 to 1 Gri Gri 55.9 58.2	6 13 21 5/9/89 18e Wei No. 7 432 5/10/89 18e Wei No. 0 4	1.5 1.8 1.6	0 0 0 No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 .0 .0 .0 .0 0.0 0.0 0.0 0.0 0.0	0 0 0 1mon Wei No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0. 0. Percen large salmo 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Rocky Run Porters L. River code: 90 Season dates: 1/6/89 to 29/8/89

Obs. 2 78 80 1 orde 0 0 0 0 0 0 0 0 0 0 0 0 0	Est. 2 94 97 er. Ri Est. 52 29 81 Ri Est. 21 174 60 25	Salmu Obs. E 0 0 0 ver code Numbe Salmu Obs. E Salmu Obs. E	on at. 0 0 0 	Obs. 0 0 99 fish Unknown Obs. 0 0 0 0 fish Unknown Obs.	Tot Obs. 2 78 80 Season Cobs. 43 24 67 Season Tot Obs.	al Est. 2 94 97 dates: al Est. 52 29 81 dates: al Est.	Ler No. 56 56 1/ 6/8 Ler No. 38 17 55 24/ 6/8 Ler No.	Mean 0.0 56.4 56.4 	Wei No. 274 76 5/ 8/89 18e Wei No. 39 23 62 2/ 9/89 18e 2/ 9/89	ght Mean 2.0 1.6 1.6	No. 0 0 0 0 0 1 Len 0 0 0 0	Mean 0.0 0.0 0.0 Sa gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	No. 0 0 1mon wei No. 0 0 0	Mean 0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 ght Mean	Balmor 0.0 0.0 0.0 Percent large Balmor 0.0 0.0 0.0 Percent large Balmor
Obs. 2 78 80 1 orde 0 0 0 0 0 0 0 0 0 0 0 0 0	Est. 2 94 97 er. Ri Est. 52 29 81 Ri Est. 21 174 60 25	Obs. E	at. 0 0 0 r of st. 0 0 1 r of 0 0 0 1 r of 0 0 0 0 0 0 0 0 0 0 0 0 0	Obs. 0 0 99 fish Unknown Obs. 0 0 0 0 fish Unknown Obs.	Obs. 2 78 80 Season Tot Obs. 43 24 67 Season Tot Obs.	Est. 2 94 97 dates: al Est. 52 29 81 dates: al Est.	No. 0 56 56 1/ 6/8 Ler No. 38 17 55 24/ 6/8 Ler No.	Mean 0.0 56.4 56.4 	No. 2 74 76 5/ 8/89 18e Wei No. 23 62 2/ 9/89 18e Wei No.	Mean 2.0 1.6 1.6	No. 0 0 0 0 0 1 Len 0 0 0 0	Mean 0.0 0.0 0.0 Sa gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	No. 0 0 1mon wei No. 0 0 0	Mean 0.0 0.0 0.0 ght Mean 0.0 0.0 0.0 0.0 ght Mean	Balmon O. O. O. O. Percen large Balmo O. O. O. O. Percen large Balmo
2 78 80 0 orde 0.	2 94 97 97 97 97 97 97 97 97 97 81 52 29 81 81 81 81 81 81 81 81 81 81 81 81 81	0 0 0 ver code Salma Obs. E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 r of st. 0 0 0 i 1 r of 0 0 0 st.	0 0 99 fish Obs. 0 0 0 0 fish Unknown Obs.	2 78 80 Season 	2 94 97 dates: al Est. 52 29 81 dates; al Est.	0 56 56 1/ 6/8 Ler No. 38 17 55 24/ 6/8 Ler No.	0.0 56.4 56.4 39 to 1: Gri 19th 59.3 57.2 58.7 39 to 2: Gri 19th Mean	2 74 76 5/ 8/89 18e wei No. 39 23 62 2/ 9/89 18e wei No.	2.0 1.6 1.6	0 0 	0.0 0.0 0.0 Sa gth 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0 1mon wei No. 0 0 1mon wei No.	0.0 0.0 0.0 ght - Mean 0.0 0.0 0.0 0.0 0.0	0.0 0.0 Percent large salmon 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
80 0 orde 0. 0bs. 43 24 67 0bs. Gri 0bs.	97 er. Ri Est. 52 29 81 Ri Est. 21 174 60 25	0 ver code Salmu Obs. E 0 0 0 0 ver code Numbe Salmu Obs. E 0 0 0 0 0	0 r of on st. 0 0 0 1 r of on st. 1 r of	0 99 fish Unknown Obs. 0 0 0 fish Unknown Obs.	Season Obs. 43 24 67 Season Obs.	dates: al Est. 52 29 81 dates: al Est.	56 1/ 6/8 Ler No. 38 17 55 24/ 6/8 Ler No.	56.4 99 to 1 Gri ngth Mean 59.3 57.2 58.7 39 to 2 Gri ngth Mean	76 5/ 8/89 18e Wei No. 39 23 62 2/ 9/89 18e Wei No.	1.6 	0 No. 0 0 Len No.	0.0 Sa gth Mean 0.0 0.0 0.0 Sa gth Mean	0 Imon No. 0 0 Imon Wei No.	0.0 ght	0.0 Percen large salmo 0. 0. 0. 0. Percen large salmo
Gri Obs. 43 24 67 Dugh Gri Obs.	Ri Est. 52 29 81 Ri Est. 21 174 60 25	Numbe Salmu Obs. E 0 0 0 0 0 ver code Salmu Obs. E 0 0 0 0 0	r of on st. 0 0 0 1 r of st.	fish Unknown Obs. 0 0 0 fish Unknown Obs.	Tot Obs. 43 24 67 Season Tot Obs.	al Est. 52 29 81 dates; 	Ler No. 38 17 55 24/ 6/8 	Gri ngth Mean 59.3 57.2 58.7 39 to 2: Gri ngth Mean	18e 	ght Mean 1.9 1.8 1.8 9. * ght Mean	Len No. 0 0 0	Sa gth Mean 0.0 0.0 0.0 Sa gth Mean	lmon Wei No. 0 0 lmon Wei No.	ght Mean 0.0 0.0 0.0 ght Mean	Percen large salmo 0. 0. 0. 0. Percen large salmo
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232		0	0	0	232	281	187	55.2	202	1.7	0	0.0	0	0.0	0.
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Obs.		Obs. E	st.	Obs.	Obs.	Est.	No.		No.	Mean	No.		No.		
11	13	0	0	0	11	13	11	54.7	8	1.8	0	0.0	0	0.0	0.
11	13	0	0	0	11	13	11	54.7	8	1.8	0	0.0	0	0.0	0.
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Obs.	Est.	Obs. E	st.		Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.		salmo
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9 10	Sept			0		0 0				57.7		1.8		0.0		0.0	0.0
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6 7 8	June	58	70	0		0 0 0 0 0 0	58	70	54	58.0	49	1.9	0 0 0	0.0	0	0.0	0.(0,(0.(
	er total:		115			0 0							0		0		0.0
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				Numb	er of	fish				Gri	lse			Sa	lmon		Percent
Mon	th	Gr	llse	Sal	mon	Unknown	Tol	tal	Ler	gth	Wei	ght	Ler	gth	Wei	.ght	large
No.	Name	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmon
6	June	50	60	0	0		50	60	44	55.3	50	1.8	0	0.0	0	0.0	0.0
7	July	140	169	0	0	-	140	169	112	54.5	133	1.7	0	0.0	0	0.0	0.0
8	Aug	30	36	0	0	0	30	36	24	53.7	30	1.6	0	0.0	0	0.0	0.0
River	totalı	220	266	0	0	0	220	266	180	54.6	213	1.7	0	0.0	0	0.0	0.0

				Num	ber of	fish				Gri	lse			Sa	lmon		Percent
Mon	th	Gr	ilse	Sa	lmon	Unknown	То	tal	Len	gth	Wei	ght	Len	igth	Wei	ght	large
No.	Name	Obs.	Est.	Obs.	Est.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmon
9 10	Sept Oct	7 47	8 57	0 0			7 47	8 57	4 36	58.4 56.3	7 42	2.0 1.8	0 0	0.0	0 0	0.0	0.0
River	total:	54	65	0	0	0	54	65	40	56.5	49	1.8	0	0.0	0	0.0	0.0

West: Pictou Co.	River code:	116	Season dates:	1/ 9/89 to 31/10/89.

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				Numbe	er of	fish				Gri	lse			Sa	lmon		Percent
Mor	nth	Gr	ilse	Salı	non	Unknown	То	tal	Ler	gth	Wei	ght	Ler	ngth	Wei	ght	large
No.	Name	Obs.	Est.	Obs. H	Est.	Obs.	Obs.	Est.	No.	Mean	No.	Mean	No.	Mean	No.	Mean	salmon
9 10	Sept Oct	1 10	1 12	0 0	0 0	-	1 10	1 12	1 9	55.9 56.1	1 9	2.3 1.6	0 0	0.0 0.0	0 0	0.0 0.0	0.0 0.0
Rive	r total:	11	13	0	0	0	11	13	10	56.1	10	1.6	0	0.0	0	0.0	0.0

Month	Salmon released	Grilse 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

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

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 National Railway Bridge in Belmont to the number 2 Highway from April 15 to May 10, 1989.
Clyde River	Opened to fishing in those waters downstream from Quin's Falls from September 11 to October 15, 1989.
Country Harbour River	Closed to fishing in those waters from Lewis Brook upstream to, but 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.

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)	(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 Cherryfield 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.
Maccan River		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.
Margaree		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.
Medway	(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.
Mersey		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.
Musquodoboit River		Closed to fishing in those waters from the sea upstream to and incuding Plaster Rock Pool from August 4 to December 31, 1989.
North (Colchester)		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.
North (Victoria)	(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.

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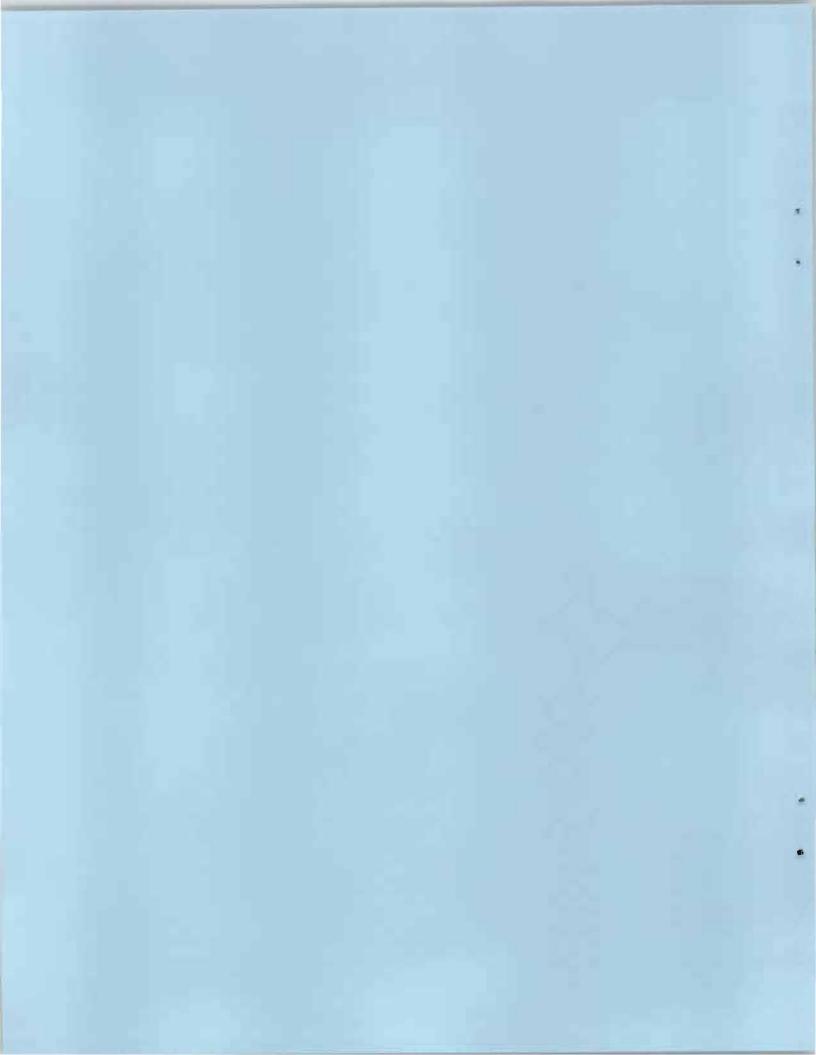
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Petite Rivière (1)		Closed to fishing in those waters downstream from Hebb Lake, but not including Fancy Lake, to the number 331 highway bridge crossing that river in the community of Petite Rivière from April 1 to May 31, 1989.
(2)		Closed to fishing in those waters downstream from Hebb Lake, but not including tributaries and not including Fancy Lake, to the number 331 highway bridge crossing that river in the community of Petite Rivière from June 1 to June 14, 1989.
	(3)	Closed to fishing in those waters of Wallace Brook from the junction with the Petite Rivière in the community of Crousetown upstream approximately 180 m to a point marked by a fishery officer from April 1 to September 30, 1989.
Portapique River		Closed to fishing in those waters downstream from the mouth of Matheson Brook to the number 2 highway bridge from April 15 to May 10, 1989.
Pugwash River		Closed to fishing in those waters upstream of the Conn's Mills bridge from January 1 to April 14, 1989.
River Hébert		Closed to fishing in those waters from the bridge near the tree nursery in the Chignecto Game Sanctuary to the number 242 highway bridge at the village of River Hébert from April 15 to May 10, 1989.
Saint Mary's	(1)	Closed to fishing in those waters upstream from Number 7 highway bridge (the entire river) from August 3 to August 16, 1989.
	(2)	Opened to fishing in those waters downstream from a point 100 m upstream of Silver's Bridge and downstream from the highway bridge at Glenelg (the main branch) from August 16 to September 15, 1989.
Salmon River (Colchester)		Closed to fishing in those waters downstream from the mouth of Greenfield Brook to the number 102 highway bridge from April 15 to May 10, 1989.
Salmon River (Guysboroug	h)	Closed to fishing in those waters from Spanky's Bridge upstream to, but not including, Salmon River Lake from August 3 to September 17, 1989.
Stewiacke River		Closed to fishing in those waters upstream of the railway bridge in Stewiacke to the Middle Stewiacke bridge in Middle Stewiacke from April 15 to May 15, 1989.
Tusket River		Closed to fishing in those waters from the highway bridge at the southern extremity of Lake Vaughn downstream to the Tusket River hydro station from April 1 to June 30, 1989.
West River, Sheet Harbour		Closed to fishing in those waters upstream from the Killag Road bridge to its source, and including all tributaries, from June 1 to September 30, 1989.

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

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APPENDICES



Alphabetical index to map

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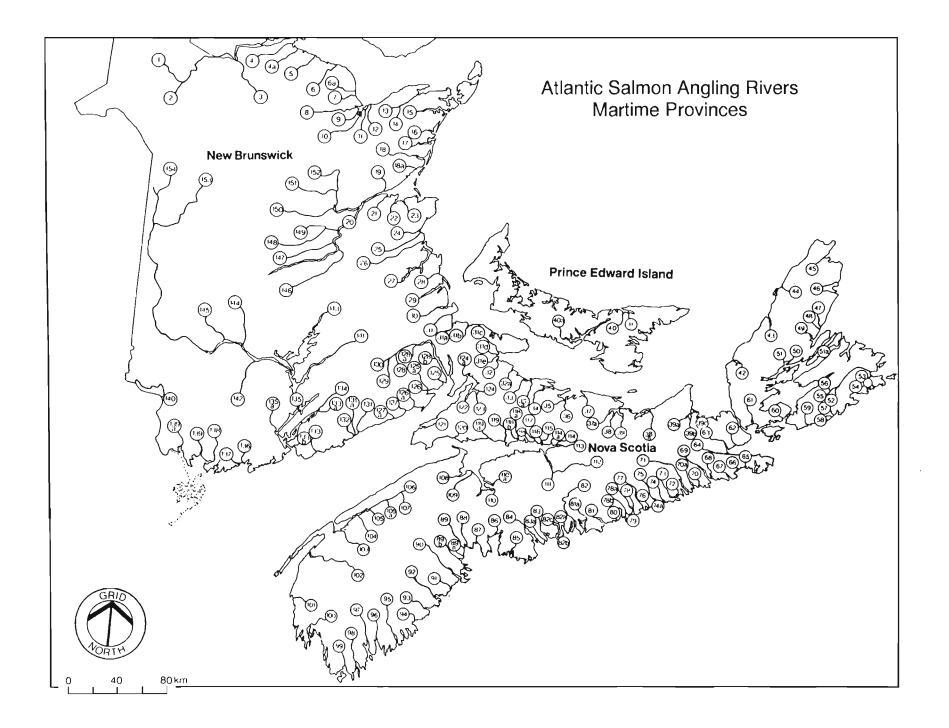
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Barrington. 99 Tusket 100 Salmon (Digby Co.). 101 Sissiboo. 102	Roseway				97
Barrington	Clyde	-		-	
Tusket	Barrington	•	•	•	
Tubket	Barrington.	•	•	•	
Salmon (Digby Co.) 101 Sissiboo 102 Bear	тивкес		•	•	
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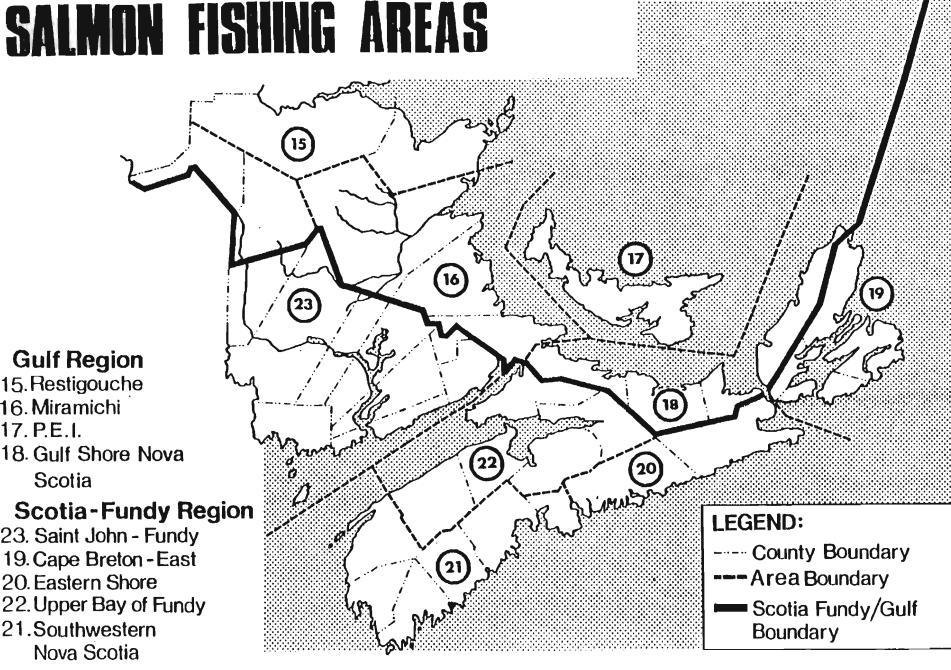
Lequille				104
Round Hill				105
Paradise Brook				105a
Annapolis				106
Nictaux				107
Cornwallis			•	108
Gaspereau (Kings Co.)				109
St. Croix (Hants Co.)			•	110
Kennetcook	•		•	110a
Shubenacadie	•	•	•	111
Stewiacke	•	•	•	112
Salmon (Colchester Co.) . North (Colchester Co.)			•	113
North (Colchester Co.)	•	•	•	114
Chiganois	•		٠	114a
Debert	•	•	•	115
Folly	•	•	•	116
Great Village	•	•	•	117
Portapique	٠	•	•	118
Bass (Colchester Co.)	-	•	•	118a
Little Bass	•	•	•	118b
Economy	•	•	•	119
Harrington	٠	•	•	119a
Diligent	•	•	•	120
Apple	•	•	•	121
River Hebert	٠	·	•	122
Maccan	٠	•	•	123
Napan (Cumberland Co.)	٠	•	•	124
Tantramar	•	•	•	124a
Demoiselle	•	•	٠	125
Crooked Creek	٠	•	•	125a
Shepody	•	•	•	126
West (Albert Co.)	•	•	•	126a
Alma	•	٠	•	127
Pointe Wolfe	•	•	:	127a
Coverdale	•	·	•	128
Turtle Creek	•	•	٠	128a
Weldon Creek	•	•	•	128b
	•	•	•	129
Petitcodiac	•	•	•	130 131
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Irish	•	•	•	131a 132
Mosher (Saint John Co.) .	٠	•	•	
Black (Saint John Co.)	•	•	•	133 133a
Hammond	•	•	•	133b
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Waweig	•	•	•	139a
St. Croix (Charlotte Co.)	•	•	•	140
	•	•	•	141
<u> </u>		•	•	142
Salmon (Queens Co., N.B.)	•	:	•	143
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	•	:	•	146
Cains	•	•	•	147
	•	•	•	148
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Renous	•	•	:	150
Sevogle	•	•	•	150
	•	•	•	152
Norhtwest Miramichi	٠		•	1 7 2

Gulf Region

15. Restigouche 16. Miramichi 17. P.E.I. 18. Gulf Shore Nova Scotia

Scotia-Fundy Region

23. Saint John - Fundy 19. Cape Breton - East 20. Eastern Shore 22. Upper Bay of Fundy 21.Southwestern Nova Scotia



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SALMON RIVERS BY FISHING AREA

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Fishing areas		Rivers
Gulf Region		
15	Restigouche	Bass, Benjamin, Caraquet, Charlo, Eel, Jacquet, Kedgwick, Little, Little Tracadie, Middle (Gloucester Co.), Millstream, Nepisiguit, Nigadoo, Patapedia, Pokemouche, Restigouche, South Caraquet, Tetagouche, Tracadie, Upsalquitch.
16	Miramichi	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.
17	Prince Edward Island	Midgell, Morell, West (Queens Co.).
18	Gulf Shore Nova Scotia	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.).
Scotia-Fundy Regio	<u>on</u>	
23	Saint John - Fundy	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, Pollet, Saint John, St. Croix, Salmon (Queens Co.), Salmon (Victoria Co.), Shepody, Tantramar, Tobique, Turtle Creek, Waweig, Weldon Creek, West (Albert Co,).
19	Cape Breton East	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.).
20	Eastern Shore Nova Scotia	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).
22	Upper Bay of Fundy	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.
21	Southwest Nova Scotia	Barrington, Broad, Clyde, East (Lunenburg Co.), Gold, 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}_n) 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 successful 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

		$A = P_{\rm eff} + P_{\rm eff} + 2A_{\rm eff}$ and $P_{\rm eff} + 2A_{\rm eff} + 2A_{\rm eff}$
angle (angled)	-	to fish (fished) with rod and line using an artificial fly.
bright fish	-	a mature, adult Atlantic salmon that has entered fresh 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 rod- day.
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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